1.1 Close Encounters with Chimpanzees

There may be only two groups of humans who truly understand how chimpanzees look at the world. The first is those who have studied chimpanzees in the wild, trailing along behind them day after day, watching as males manipulate both friends and enemies in their struggle to ascend to alpha status; or looking on in sympathy as a heavily pregnant female, tired after a long day of gathering, calculates which feeding site might pay-off best for the day’s last meal. After perhaps a year of such snooping, an observer might begin to understand what it is like to inhabit the mind of the chimpanzee, to think about the world and other chimpanzees as a chimpanzee does.

The second group is made up of people who have reared a chimpanzee from infancy, treating her as they might have treated their own infant, learning her abilities, desires, and fears as she experiences the joy, loneliness, anxiety, frustration, and confusion of childhood.

The approach followed by the first group has led to incredible scientific discoveries and vivid biographies of individual chimpanzees. That followed by the second group is heavily discouraged nowadays, and thankfully so. It has always (at least, in every case I know of) played out as a heart-wrenching tragedy entailing shattered relationships, forlorn isolation, and premature death. To quote Jane Goodall, “Every primate belongs in an environment that is as close to a wild setting as possible. They are beautiful and intelligent animals, but highly complex with very specific needs.”

Most people belong to neither of these groups, but see chimpanzees in a third context: captivity. Ceding control of your life to a jailer, no matter how benign the jailer, shrinks the spirit and shrivels the intellect. Captive chimpanzees are diminished beings, not the striving, calculating, problem-solving personalities I know from the wild.

Those who have inhabited the chimpanzee world come to know that while chimpanzees truly are intelligent, their intelligence is as unlike ours – but also as like ours – as their anatomy. For some cognitive tasks their intellect and psychology mirror ours almost perfectly; for others it is a fun-house mirror version of the human condition, similar but strangely warped. For still other intellectual tasks their abilities are surprisingly meager. These differences mean that it takes time and effort to inhabit their minds. This volume means to introduce a diverse audience to aspects of chimpanzee behavior and biology they may
have neglected. While the rest of this book will focus on chimpanzee research, both in the wild and in captivity, I want to introduce chimpanzee nature to you by profiling a few chimpanzees whose lives were among humans, and I will wrap it up back in the wild, where we will spend most of our time in this volume.

1.2 Nkuumwa

The Uganda Wildlife Education Center (the Entebbe Zoo\(^1\) to some) of July 1997 was half green hope and half dusty depression. The startling transformation that has rendered it the green and shady animal sanctuary it is today had only just begun. Yet, even then you could see signs of what was to come. There were new, spacious nature-mimicking exhibits under construction everywhere you looked. Yet still amid these emerging oases of wildness you could find (in a kiddie pool-sized mud puddle) a lone, tattered, and bloated-looking crocodile whiling away eternity, nothing about the creature reminiscent of the sharp danger and vivid action of the wild animal.

Strolling the zoo’s dusty paths with Debby Cox, one of the driving forces behind the zoo’s current zenith, I wended my way past steel-meshed, concrete-floored monkey cages and topped a hill to catch a glimpse of what I had come there to see, the green, spacious, and spanking-new chimpanzee habitat. This modern enclosure had been built as a home for some of nature’s most appealing castaways. Or – not castaways – but *unfortunates*, wild beings kidnapped from nature. Here lived chimpanzees who had narrowly escaped the cooking pot – or if not that, the short, miserable life of a shackled pet. Debby proudly showed off the enclosure. It was hilly, clothed in green, alive with healthy vegetation, and situated so that the restraining fences were as little noticed as possible. I circled the compound, listening to the clean-toned, high-decibel hoots of the chimpanzees, watching their faces and mannerisms for some hint of their harrowing past. Sadly, some clearly showed it. Yet, others seemed happy, virtually indistinguishable from wild chimpanzees.

Near the enclosure was a modest structure that held the offices and workspace for the ape caretakers. There I met the zoo’s newest castaway, an infant chimpanzee named Nkuumwa (Figure 1.1). Possibly a year old, perhaps two, the orphan Nkuumwa was too young to live on solid food alone. Chimpanzees mature only slightly faster than humans. If she were in the wild she would still be getting all her nutrition from nursing and would continue to do so for another couple of years. She was here because she was still too small and weak to cope with the nearby raucous chimpanzees who would one day become her companions. Instead, she was being hand-reared by Debby and the zoo staff.

Nkuumwa had been confiscated five months earlier from a cook at the US Marine House in Kampala, where she had been kept as a sort of mascot, regularly passed from person to person during social events, a circumstance that could have been no more comfortable for her than it would be for a human baby.

If Nkuumwa had a typical experience during her orphaning she would have seen her mother shot and killed, and as horrific as it is to contemplate, it is not at all unlikely that she watched as her mother was butchered by poachers. Then she would have been carried to a roadway, chained, offered for sale, and eventually bought by a passing stranger. Since wild chimpanzees of Nkuumwa’s age are rarely out of their mother arms, her capture would have been the first

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\(^1\) Entebbe is a city in Uganda, East Africa, best known as the site of Uganda’s international airport; the capital, Kampala, is some 45 miles distant.

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Figure 1.1 Nkuumwa at four years old. Courtesy of Ngamba Wildlife Reserve.
time she had ever been more than an arm’s length from her mother.

Someone notified the authorities that Nkuumwa was at the Marine House, and it fell to the Entebbe Zoo staff to confiscate her. When zoo personnel first gathered her up she was so covered with lice that her normally black fur appeared white. She was too weak to stand, and when she was examined by medical staff she was found to have pneumonia. At first Nkuumwa refused to eat or drink. Pneumonia is extremely dangerous for chimpanzees, and for infants it is fatal more often than not. Nkuumwa was lucky. After only a brief time in the care of the knowledgeable zoo staff, she rallied. She gained strength, then gained weight, and soon it was apparent she would survive. By the time I met her she looked healthy and well-fed. At a cost. Debby was woken up several times a night to feed Nkuumwa on demand, just as her mother would have done.

Nkuumwa’s luck has continued up to now. She is 21 years old as I write this, living in the Ngamba Island chimpanzee sanctuary in Uganda, a well-adjusted, lively young female, seemingly bearing no scars from her harrowing life-journey.

While Nkuumwa’s story is a disturbing one, I can hardly blame the Marine who bought her and took her home. He was young and infant chimpanzees are heart-breakingly cute; perhaps he did what many of us would have done in his place: He saw an appealing and sad animal he wanted to comfort. This is exactly what so many sympathetic chimp owners in history did.

I recounted Nkuumwa’s biography because it says something about people and chimpanzees that I find telling. For, as I was meeting Nkuumwa, her caretaker asked if I would like to hold her. As a fieldworker I had been fully indoctrinated in the “avoid–contact” code all wild primate researchers follow. I was inculcated to avoid close proximity to a chimpanzee, and touching them on purpose was out of the question. The no-contact rule is an important one. Not only might contact pass on diseases, if chimpanzees interact too intimately with humans the overexposed individuals tend to treat humans just as they might treat another group member. Despite what you may have heard, that does not mean sensitively grooming them and patting them on the head – it often means inclusion in the violent world of chimpanzee physical dominance, a rigid social hierarchy we will discuss in detail in Chapters 24, 25, and 26. So this was a first for me. In all my years of living among chimpanzees I could count on one hand the incidental physical contacts I had had with them.

While it would never have occurred to me to ask to hold Nkuumwa, I made a quick readjustment as her keeper looked at me expectantly. I reached for her and as I did, she held her arms out to be gathered up, exactly as a human infant would. There was something endearing about the way she gripped my shirt and arm so tightly, even though there was no indication she was fearful. I pulled one of her hands away from my shirt and held it between my thumb and finger, examining her surprisingly narrow light brown hand with its long, thick fingers, wrinkled, warm, soft on the outside, but with hard strong sinews and bone underneath. I looked down at her face and she gazed back at me steadily, her eyes darting back and forth between each of mine, something that somehow made her seem unsettlingly like a human baby.

I had received some potent doses of infant chimpanzee cuteness in the past, but holding this tiny, clinging baby in my arms evoked a much more powerful emotion than I had experienced before. It was not just that Nkuumwa was cute; I felt embarrassed that I immediately felt a strong protectiveness and possessiveness toward her, as if I might have trouble handing her back to her keeper. At that instant I felt a brief stab of guilt, a guilt I have felt before when cuddling someone else’s baby, the hollow feeling that somehow my parental feeling toward Nkuumwa was betraying my own children. This feeling was quickly followed by the more objective realization that some important distinction I had always assumed existed between humans and animals had been short-circuited.

1.3 Meshie

While this episode was unusual, I am just one of many to have experienced it. Soon after this incident, I read an article by Claire Martin that told a tragic tale with which I was vaguely familiar, but she told it in a more personal way than anything I had read before (Martin, 1994).
It was the story of a scientist and a chimpanzee—a frail orphan purchased on impulse. It was a story that featured the same species-confusion I had experienced holding Nkuumwa. It was the story of the eminent scientist Harry Raven and his adopted chimpanzee daughter, Meshie (Figures 1.2–1.4).

Raven’s is a well-known story (Raven, 1932, 1933), told in two articles that were sensations at the time among those who were interested in primates, retold many times even before Martin’s retelling. Writer Preston Douglas reported on Raven’s story and was so intrigued by it he turned it into a captivating novel that was widely reviewed and read, Jennie (Preston, 1994). Raven, Douglas, and Martin tell Meshie’s story. Her name was given to her by children in an African village Raven was visiting. “Meshie Mungkut,” Martin wrote, was said to mean “little chimpanzee who fluffs her hair up to look big” (chimpanzee hair stands on end when they are excited or aggressive, a phenomenon known as piloerection).

In 1930 and 1932, while he was curator at the American Museum of Natural History, Harry Raven traveled from his tidy home on Long Island to Cameroon, West Africa on an expedition “collecting” primate specimens for anatomical study; you probably
suspect what collecting means – “specimens” are not normally found lying on the forest floor.

Two men walked into Raven’s camp carrying the tiny Meshie. One of the men had killed her mother with a poison dart, and the two had eaten her. Meshie, seeing Raven, stretched her arms toward him and he could not resist taking her; she held on tight “as if she feared she might fall,” and stroked the hair on his arm. He must have felt the same impulse I felt when holding Nkumw, the powerful impulse to protect. Raven bought Meshie and traveled with her around Africa, Meshie sitting next to him in the front seat of his vehicle as he drove. He managed to get her back to the USA. While she slept for a time in a treehouse Raven made for her, making a nest of blankets each night, for the most part she was reared in his home and treated as a sibling to Raven’s other three children (Figure 1.5); afterward this rearing-as-if-human came to be known as cross-fostering. In Raven’s home, Meshie soon learned to eat at the table, pedal a kiddie-car, and eventually to ride her tricycle around with neighborhood children (Figure 1.6).

In short, Meshie was allowed about as much freedom as a chimpanzee can be allowed in human society. Perhaps because Raven was a prominent scientist, nobody seemed to question his custom of allowing her the run of his home and of the wider neighborhood beyond.

You have read my own species-confusion story, but in the case of Meshie we have more than mere written descriptions with which to comprehend Meshie’s...
intimate relationship with her human family. We have home movies. Martin describes one of these films with these powerful words:

Meshie is about five years old. She is perching on a stool next to the Ravens’ six-month-old baby, Mary, who is in a high chair. With one thick, wrinkled hand, Meshie holds a bowl of what looks like rice cereal. With the other hand, Meshie patiently and deftly spoon-feeds the baby, who is blasé about being fed by a chimpanzee but fascinated by the camera, constantly twisting to stare curiously at the bright lights. The scene cuts to the baby grabbing a sloppy handful of cereal and smearing it on the high chair’s tray. Meshie, who was fastidiously neat during her own meals, is visibly appalled. She hops down, fetches a rag and wipes the baby’s messy face. Then she cleans up the cereal, scrubbing until she’s satisfied that the tray is spotless.

This visual image brought home to Douglas and Martin the similarity of chimpanzee and human minds in a way that nothing else had. In an interview with Martin, Douglas remembered his response to the film: "I thought ‘My God! This is an animal feeding a human! With a spoon! Feeds her with a spoon, very carefully, and then wipes up the mess afterward. This isn’t at all like a cat or a dog or a horse; we’re talking about an animal so close to being human that a real confusion is going on here.’"

For some time Meshie seemed to slip almost seamlessly into the family, but as she matured she became increasingly willful and uncontrollable. Eventually she became too dangerous to be allowed to roam freely. Raven estimated that as a 46-pound four-year-old she was already as strong as an adult human.

At his wit’s end, Raven sadly realized she had to be restrained somehow. At first, he tied her up with a rope, but she untied the knot. He tried a chain, but before long she learned to break the links or unbuckle the collar. Raven’s frustration at Meshie’s repeated escapes is palatable in his retelling, but so also is a suppressed delight in her skill at untying knots and slipping off collars. Finally, he had a cage custom-built in his basement, a comfortable cage, but still too much like a prison to be a happy thing.

Reading Raven’s 1933 article, his love for Meshie (Figure 1.7) bubbles to the surface as he describes the loving persistence and remarkable steadfastness with which he resolutely repaired one after another of Meshie’s devastations. She ripped out electrical wires; she bent gas lines; she toppled paint cans – all this from inside her cage. She escaped to play in the coal bin, tracking black footprints everywhere. Not only did she have incredible strength, she was as nimble as a circus acrobat; once out of her cage, she climbed everything climbable, making recapturing her an exhausting trial. Raven unflinchingly bore it all – the financial costs, the phone calls summoning him home from work early, and the stress of an increasingly chaotic home life that his put-upon wife bore even more heavily than he. His tale begins to sound much like that of any exhausted parent of a wayward son or daughter who is constantly in trouble with the authorities.

### 1.4 Meshie’s Fate

Ultimately, even with restraints, Meshie proved too dangerous to both herself and to children in the neighborhood to remain in the Raven home, and in the
end she suffered the fate of the vast majority of pet chimpanzees: She was sent to a zoo, confined to a sturdy steel cage at the Brookfield Zoo in Chicago. Having sat watching her mother butchered and eaten, she was now torn from her loving adoptive family and doomed to confinement, a circumstance that undoubtedly left her lonely and frightened. Zoo staff saw nothing cute or appealing in Meshie. In her confusion and anger she struck out at her caretakers with shockingly aggressive displays. To zoo staff she was a vicious, violent, dangerous beast, nothing like the loving “child” who had cuddled her baby sister and fed her with a spoon.

Douglas and Martin report that Raven visited her once, some years later. He ignored concerned keepers’ warnings that she would rip him apart and entered Meshie’s cage where the “vicious beast” and her adoptive father had a tender reunion. Sadly, love does not conquer all. Despite Raven’s affection for Meshie, the reunion was short-lived; it was simply impossible for him to take her home.

I wish there were a happy ending to this story, but there is not. Meshie remained in the zoo as an animal on exhibit. In her anger and confusion she never fully integrated with the other chimpanzees and interacted with them little. She did assimilate well enough to mate with a male and ultimately became pregnant. She died giving birth. Motherhood can calm captive primates; having a helpless, appealing baby to fawn over gives their drab lives some meaning; it is the ultimate tragedy of Meshie that she never had this last chance at adult happiness. Raven is said to have grieved Meshie’s death for years.

There is a lesson to Raven’s and Meshie’s tragedy. Their heart-breaking separation is one that ultimately divides all chimpanzees and their civilian caretakers. Chimpanzees cannot be pets. As appealing as they are as infants, they are best reared among other chimpanzees from birth, if they are born in captivity.

Raven’s home movies and narratives from the 1930s are important when placed in context. They are part of the history of discovery of chimpanzee cognitive abilities. They provide a less scientific and more personal addition to a whole procession of astonishing scientific discoveries about – if I can phrase it this way – the humanity of the chimpanzee, much of it played out in those few celluloid seconds of Raven family life. We see tool use. An animal that clearly understands the somewhat fuzzy concept of “neat,” and the seamless (for the moment) splicing of a member of different species into a human family. Rule following. Mental mapping (a mental map is a cognitive representation of a geographic area) of unobserved and distant objects. Empathetic concern for loved ones (Figure 1.5). Is it any wonder that even decades later Mary Raven Hockersmith, the child being fed in the movie, displayed in her home a photograph of herself as an infant, being held by Meshie, her doting and ultimately stolen sibling?

For scientists, Meshie’s story adds texture to publications that appeared around the time of Meshie’s adoption but that largely spoke to a scientific audience (Köhler, 1925; Kellogg & Kellogg, 1933; Ladegård-Kohts, 1935).

1.5 Vicki

At the risk of lingering overlong on cross-species adoptions, let me relate two more anecdotes that show the adoption of human cultural traditions by Meshie was not unusual. Martin also reported on another human-reared chimpanzee named Vicki; she was a further model for Douglas’s novel Jennie. One of Vicki’s favorite playthings was a pull-toy she towed around her house with great enjoyment. The toy occasionally got hung up on furniture or fixtures, particularly as she raced around the house. Surprisingly, when the pull-toy went missing Vicki continued to “play” with it, trailing an imaginary pull-toy behind her as she ran through the house. The nonexistent pull-toy got hung up on the toilet, just as did the real toy, at which point Vicki patiently stopped to untangle it.

Now and then someone wonders whether human-reared chimpanzees might be more intelligent – more human-like – than wild chimpanzees: Distinguished lab primatologist Duane Rumbaugh asked this of me once. This view arises from the idea that life in the wild is less intellectually challenging than life in the lab. I hold a diametrically opposed view. Other than superficial behaviors like using a spoon, the basic “humanity” of chimpanzees is just as startlingly apparent in the wild. In Chapter 18 I will discuss the
close correspondence between the chimpanzee mind and the cognitive demands they face in the wild. There, in their natural home, chimpanzees exhibit all their intellectual strengths, and many are similar to those that distinguish humans from other primates: In the forest their excellent memories, superbly tuned sense of geographical space, social subtlety, and intense mother–infant bonds closely match human intelligence. They are like us not because they mimic us, but because they are a close relative, a sister species.

1.6 Kakama

As an example of Vicki- or Meshie-like behavior among wild chimpanzees, Richard Wrangham (Wrangham & Peterson, 1997) tells the story of a boisterous eight-year-old male, Kakama and his sluggish, pregnant mother. Kakama plucked a log, a largish one half his size, from the forest floor and carried it off and on for hours, snuggling with it, juggling it while he lay on his back in a day-nest, placing it carefully beside him when he fed, frolicking with it as if it were a baby. Fate had placed Kakama, an outgoing, playful young male, with a somewhat stodgy, antisocial mother. Could he have been anticipating the birth of a playmate? Wrangham was left wondering. Several months later, just weeks before Kakama’s mother gave birth, two of Wrangham’s assistants saw behavior just like that he had seen. When he abandoned the log the assistant brought it back to camp and stapled to it a label that interpreted what they had seen in a delightfully straightforward manner: “Kakama’s toy baby.” There was no question that Kakama invented his doll without human interference.

1.7 Understand Chimpanzees, Understand Human Evolution

Because we are Sister Species, chimpanzees have important lessons to teach us about nature, and about ourselves. Of all species on the planet, surely this one, and the other human sister species, bonobos (Pan paniscus, also known as pygmy chimpanzees) are the species from which we learn the most and the species for which we should move heaven and earth to save in the wild – for purely selfish reasons if nothing else. We have much more to learn about chimpanzees and bonobos (Chapter 29), especially if you consider this: As I wrote this book, I consulted a large number of experts (see Acknowledgments) and there were a multitude of disagreements, questions about the reliability of this fact or that detail; there were gentle accusations of “speculation” or “overinterpretation.” Maybe so, but the important thing is that only wild chimpanzees can answer the scholarly questions my colleagues raised. My particular interest in chimpanzees is what they can tell us about human evolution. You may be surprised at how human-like chimpanzees are as you read this volume, but you may be even more surprised as you gradually become aware of how many mysteries about human origins we can solve by understanding chimpanzees.

References


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The first time I saw chimpanzees in the wild, I was filled with wonder. I had studied them in the zoo (Chapter 18) before arriving at Mahale, but seeing them in the wild was a different experience. As a male walked past me I looked in awe at the muscles in his lower leg and how the pad of his foot conformed to the uneven ground; it struck me how improbable it was that this seemingly simple environment could produce something as complicated, intelligent, intense, and powerful as a chimpanzee. I imagined a sort of chimpanzee-mist rising out of the soil and coalescing into the individual in front of me. A fanciful thought, but as incredible as it seems, an environment very much like that of Mahale did produce chimpanzees.

The story of Meshie and her adoptive father, Harry Raven, resonates with us all the more because in these personal narratives we see chimpanzees struggling to negotiate a human world that – while comfortable and familiar to us – is a challenge to them. We pity them. A chimpanzee in the wild is an altogether different thing. This is where we see the true chimpanzee. While a chimpanzee cleaning up after a messy baby is fascinating, I find the ingenuity of chimpanzees in the wild even more compelling. Wild behaviors are homegrown; they could only have been invented by the chimpanzees themselves, a fact that makes their complexity and human-ness more impressive.

2.1 The Romance of Fieldwork

Studying primates in the wild is worth it, but such research is not easy. I spent most of 1986 and 1987 gathering data for my dissertation, shuttling back and forth between Mahale and Gombe on whatever water transport I could find on Lake Tanganyika. Back then, transport for a poor doctoral student was the ubiquitous water taxi, dozens of which plied the waters of Lake Tanganyika at any one moment. These 50-foot wooden boats could hold 40 people comfortably. I say “comfortably,” but typically they were loaded far beyond comfort. It was more common to see them weighed down to the Plimsoll line and beyond with as many as 100 people. Every once in a while, the newspaper would report that an overloaded boat had capsized, inevitably resulting in several drownings. I was happy to be a strong swimmer.
Water taxis are powered by ridiculously inadequate outboard motors that putt-putt along so slowly you hardly seem to be moving. The trip from Kigoma to Gombe is only 15 miles, but with stops it often took us two hours and more. On one trip my local assistant, Hamisi Katinkila, and I piled onto one of these precarious vessels, manhandling my two large stuffed-to-bursting backpacks as we did, struggling to keep them out of the couple of inches of filthy water sloshing in the bottom. There is always a wait as from the owner crowds more and more passengers onto the already oversubscribed boat, but at last we shoved off for Gombe, me fearing as always that at any moment all my Tanzanian possessions, including my camera and tape recorder, would topple into the lake.

We puttered along until halfway into the trip, at which point the motor made a disturbing whining noise, sputtered, and stopped. The crew implacably paddled us to shore where everyone debarked. Hamisi and I waded to shore with my two backpacks, each bearing 30 kg of gear. Then, miraculously, I saw that from among the other passengers’ luggage rice, fish, charcoal stoves, and sufuria cooking pots materialized, and they began cooking their lunches. Meanwhile the boatmen had heaved the motor onto a plastic tarp covering the lakeside foliage and had begun disassembling it. Eventually, Hamisi, milling around, overheard the news that a repairman was on his way.

In due course a teenager on a bicycle hauled up with an older, graying fellow on the back, somewhat overdressed in suit jacket and wool trousers. He unstrapped a canvas packet of clanking tools from the bike and joined the boat owners disassembling the greasy boat motor. Hamisi and I stood by, swatting mosquitoes. Eventually I pushed closer to the bowl-shaped depression in which the toiling repairmen labored. Arranged on the tarp like a museum display, I saw pieces of engine housing and a wide variety of rods, oily cogs, bolts, and washers. In the middle was the still-suited “fundi,” examining a worn-looking cog the size of a hockey puck. He drew an outline of it on a piece of wood and began carving. “You cannot be serious,” I thought. “He thinks he can copy this hardened steel, delicately balanced cog? By hand? Out of wood? It will take hours and then it will last ten seconds at which point the whole contraption will explode, slaying six.”

Trailing my first-world arrogance like a storm cloud, I informed the astonished Hamisi that we were going to walk the rest of the way. It was still early in the afternoon. We could hardly get lost since all we had to do was follow the shoreline and we would eventually hit Gombe. Surely we could walk almost as fast as the water taxi could putter along, anyway, and I doubted it would be puttering at all anytime soon. I figured we were over halfway there, which left us, what, seven, eight miles? No way was I going to wait on this ill-fated repair.

We staggered off with the two huge backpacks, wading through the fine pea gravel along the shoreline. It was tough going. With each step we sunk several inches into the gravel, making each stride essentially a half-step. So the long the afternoon wore on. The sun drew low on the horizon, and still we saw nothing familiar. It grew dark, still with no sign of the park boundary. I pulled out a flashlight and we continued for another hour, then two, and soon my cheap Tiger Head Chinese batteries (if you were ever in East Africa around this time, you know them well!) were exhausted. We were exhausted, and in any case, it was too dark to make our way any longer without a flashlight. We would sleep on the beach and continue the next day.

We extracted from my luggage two thin blankets I hoped would provide some minimal warmth and perhaps protection from the voracious mosquitoes. At last we slept. A few hours later, after the whirring insects had quieted, we were awoken by a sound, the putt-putt-putt of a water taxi. Out on the lake we saw, illuminated by the light of a pressure lantern swinging from a spar in front, an unexpected but heartening sight. Our water taxi! How could the motor be running with that wooden cog? No matter, it was! Belatedly we began to shout to stop “Hoo, hoo! Here, here!” hoping to see the bow turn toward us. No luck. We resignedly returned to the body-shaped impressions we had made in the pea-gravel, destined to swat mosquitoes for a few more hours.

At first light we emerged from our bedding, me itching fiercely from my mosquito bites. Hamisi seemed unaffected “mosquitoes like the soft skin of mzungus more than we Africans,” he told me. Out of curiosity, I counted the itchy lumps, starting on the...