



Four million years ago, before the dawn of man, the island of O'ahu emerged from a warm, frothing sea.

HOW IT BEGAN

Sometime around 70 million years ago an event of unimaginable violence occurred in the Earth's mantle, deep below the ocean floor. A hot spot of liquid rock blasted through the Pacific plate like a giant cutting torch, forcing liquid rock to the surface off the coast of Russia, forming the Emperor Seamounts. As the tectonic plate moved slowly over the hot spot, this torch cut a long scar along the plate, piling up mountains of rock, producing island after island. The oldest of these islands to have survived is Kure. Once a massive island with its own unique ecosystem, only its ghost remains in the form of a fringing coral reef, called an atoll.



As soon as the islands were born, a conspiracy of elements proceeded to dismantle them. Ocean waves unmercifully battered the fragile and fractured rock. Abundant rain, especially on the northeastern sides of the mountains, easily carved up the rock surface, seeking faults in the rock and forming rivers and streams. In forming these channels, the water carried away the rock and soil, robbing the islands of their very essence. Additionally, the weight of the islands ensured their doom. Lava flows on top of other lava, and the union of these flows is always weak. This lava also contains countless air pockets and is crisscrossed with hollow lava tubes, making it inherently unstable. As these massive

amounts of rock accumulated, their bases were crushed under the weight of subsequent lava flows, causing their summits to sink back into the sea.

What we call the Hawaiian Islands are simply the latest creation from this island-making machine. Kaua'i and Ni'ihau are the oldest of the eight major islands. Lush and deeply eroded, the last of Kaua'i's fires died with its volcano a million years ago. O'ahu, Moloka'i, Lana'i, Kaho'olawe—their growing days are over as well. Maui is in its twilight days as a growing island. After growing vigorously, Hawaiian volcanoes usually go to sleep for a million years or so before sputtering back to life for one last fling. Maui's volcano, Haleakala, awakened from its long sleep and is in its final eruptive stage. It last erupted around 1790 and will con-

tinue with sporadic eruptions for a (geologically) short time before drifting into eternal sleep.

The latest and newest star in this island chain is the Big Island of Hawai'i. Born less than a million years ago, this youngster is still vigorously growing. Though none of its five volcanic mountains is considered truly dead, these days Mauna Loa and Kilauea are doing most of the work of making the Big Island bigger. Mauna Loa, the most massive mountain on Earth, consists of 10,000 *cubic miles* of rock. The quieter of the two active volcanoes, it last erupted in 1984. Kilauea is the most boisterous of the volcanoes and is the most active volcano on the planet. Kilauea's most recent eruption began in 1983 and was still going strong as we went to press. Up and coming onto the world stage is Lo'ihi. This new volcano is still 3,200 feet below the ocean's surface, 20 miles off the southeastern coast of the island. Yet in a geologic heartbeat, the Hawaiian islands

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Ancient forests dripping with life still abound on O'ahu.



will be richer with its ascension, sometime in the next 70,000 years.

These virgin islands were barren at birth. Consisting only of volcanic rock, the first life forms to appreciate these new islands were marine creatures. Fish, marine mammals and microscopic animals discovered this new underwater haven and made homes for themselves. Coral polyps attached themselves to the lava, and succeeding generations built upon these, creating what would become coral reefs. A plant called coralline algae also created (and still creates) vast reefs.

Meanwhile, on land, seeds carried by water, winds and birds were struggling to colonize the rocky land, eking out a living and breaking down the lava rock. Storms brought the occasional bird, hopelessly blown off course along with migratory birds. The lucky ones found the islands. The even luckier ones arrived with mates or were pregnant when they got here. Other animals, stranded on a piece of floating debris, washed ashore against all odds and went on to colonize the islands. These introductions of new species were rare events. It took an extraordinary set of circumstances for a new species to actually make it to the islands. Single specimens were destined to live out their lives in lonely solitude. On average, a new species was successfully deposited here only once every 20,000 years.

As with people, islands have a life cycle. After their violent birth, islands grow to their maximum size, get carved up by the elements, collapse in parts, and finally sink back into the sea. Someday, all the Hawaiian islands will be nothing more than geologic footnotes in the Earth's turbulent history. When a volcanic island is old, it is a sandy sliver called an atoll, devoid of mountains,

Hawai'i's First Tour Guide?

Given the remoteness of the Hawaiian Islands relative to the rest of Polynesia (or anywhere else for that matter), you'll be forgiven for wondering how the first settlers



Before they leave for Alaska.

found these islands in the first place. Many scientists think it might have been this little guy here. Called the kolea, or golden plover, this tiny bird flies over 2,500 miles nonstop to Alaska every year for the summer, returning to Hawai'i after mating. Some of these birds continue past Hawai'i and fly another 2,500 miles to Samoa and other South Pacific islands. The early Polynesians surely must have noticed this commute and concluded that there must be land in



When they return.

the direction that the bird was heading. They never would have dreamed that the birds leaving the South Pacific were heading to a land 5,000 miles away, and that Hawai'i was merely a stop in between, where the lazier birds wintered.

merely a shadow of its former glory. When it's middle-aged, it can be a lush wonderland, a haven for anything green, like Kaua'i and O'ahu. And when it is young, it is dynamic and unpredictable, like the Big Island of Hawai'i, but lacking the scars of experience from its short battle with the elements. The first people to occupy these islands were blessed with riches beyond their wildest dreams.

THE FIRST SETTLERS

Sometime in the first millennia A.D., a large double-hulled voyaging canoe, held together with flexible sennit lashings and propelled by sails made of woven pandanus, slid onto the sand on the Big Island of Hawai'i. These first intrepid adventurers, only a few dozen or so, encountered an empty island chain of unimaginable beauty.

They had left their home in the Marquesas Islands, 2,500 miles away, for reasons we will never know. Though some say it

was because of war, overpopulation or drought, it was more likely part of a purposeful exploration from a culture that had mastered the art of making their way through the featureless seas using celestial navigation and reading subtle signs in the ocean. Their navigational abilities far exceeded all of the other "advanced" societies of the time. Whatever their reasons, these initial settlers took a big chance and surely must have been highly motivated. They could not have known that there were islands in these waters since Hawai'i is the most isolated island chain in the world. (Though some speculate that they were led here by the golden plover—see box on previous page.)

Those settlers who did arrive brought with them food staples from home: taro, breadfruit, pigs, dogs and several types of fowl. This was a pivotal decision. These first settlers found a land that contained almost no edible plants. With no land mammals other than the Hawaiian bat, the first

The Last Battle for Supremacy

One of the more popular lookouts on O'ahu is the Pali Lookout on Hwy 61. The view from this precipice is simply glorious. As you soak in the beauty of the lookout, it's difficult to believe that this was the scene of one of O'ahu's bloodiest battles.

King Kamehameha was sweeping across the islands on his way to becoming the first man to conquer them all. When his fleet landed at Waikiki, he steadily drove the O'ahu army farther and farther up Nu'uuanu Valley. Once they got to what is now the Pali Lookout, they had nowhere to go but down the cliffs. With the help of western arms and sailors (whom he had captured and then cunningly made into his advisors), Kamehameha's army was turning the battle into a rout. Once at this location some of the enemy tried to scramble down the cliffs. Around 400 others were driven off, their bodies smashing onto the rocks below. This would be the last major battle for conquest in Hawai'i. Kaua'i would eventually surrender, and Kamehameha would at last have his kingdom.



settlers subsisted on fish until their crops matured. From then on, they lived on fish, taro, sweet potatoes and other vegetables. Although we associate throw-net fishing with Hawai'i, this practice was introduced by Japanese immigrants much later. The ancient Hawaiians used fishhooks and spears, for the most part, or drove fish into a net already placed in the water. They also had domesticated animals, which were used as ritual foods or reserved for chiefs.

Little is known about the initial culture. Archeologists speculate that a second wave of colonists, probably from Tahiti, may have subdued these initial inhabitants around 1000 A.D. Some may have resisted and fled into the forest, creating the legend of the Menehune.

Today Menehune are always thought of as being small in stature. The legend initially referred to their social stature but evolved to mean that they were physically short and lived in the jungle away from the Hawaiians. (The ancient Hawaiians avoided living in the jungle, fearing that they held evil spirits, and instead settled

It's hard to imagine, but 50 generations of Hawaiian royalty were born at these sacred rocks in central O'ahu.

on the coastal plains.) The Menehune were purported to build fabulous structures, always in one night. Their numbers were said to be vast, as many as 500,000. It is interesting to note that in a census taken of Kaua'i around 1800, some 65 people from a remote valley identified themselves as Menehune.

The second wave of settlers probably swept through the islands from the south, pushing the first inhabitants ever north. On a tiny island northwest of Kaua'i, archeologists have found carvings, clearly not Hawaiian, that closely resemble Marquesan carvings, probably left by the doomed exiles.

This second culture was far more aggressive and developed into a highly class-conscious culture. The society was governed by chiefs, called ali'i, who established a long list of taboos called kapu. These kapu were designed to keep order,



If ancient Hawaiian legend is correct, this rock near Ka'ena Point called Leina-a-ka'uhane—the leaping place for souls—is the last earthly sight that a Hawaiian soul will see before he joins his ancestors.

and the penalty for breaking one was usually death by strangulation, club or fire. If the violation was serious enough, the guilty party's family might also be killed. It was kapu, for instance, for your shadow to fall across the shadow of the ali'i. It was kapu to interrupt the chief if he was speaking. It was kapu to prepare men's food in the same container used for women's food. It was kapu for women to eat pork or bananas. It was kapu for men and women to eat together. It was kapu not to observe the days designated for the gods. Certain areas were kapu for fishing if stocks became depleted, allowing the area to replenish itself.

While harsh by our standards today, this system kept the order. Most ali'i were sensitive to the disturbance their presence caused and often ventured outside only at night, or a scout was sent ahead to warn

people that an ali'i was on his way. All commoners were required to pay tribute to the ali'i in the form of food and other items. Human sacrifices were common, and war among rival chiefs the norm.

By the 1700s, the Hawaiians had lost all contact with Tahiti, and the Tahitians had lost all memory of Hawai'i. Hawaiian canoes had evolved into fishing and inter-island canoes and were no longer capable of long ocean voyages. The Hawaiians had forgotten how to explore the world.

THE OUTSIDE WORLD DISCOVERS HAWAII'

In January 1778 an event occurred that would forever change Hawai'i. Captain James Cook, who usually had a genius for predicting where to find islands, stumbled upon Hawai'i. He had not expected the islands to be here. He was on his way to Alaska on his third great voy-

age of discovery, this time to search for the Northwest Passage linking the Atlantic and Pacific oceans. Cook approached the shores of Waimea, Kaua'i at night on January 19, 1778.

The next morning Kaua'i's inhabitants awoke to a wondrous sight and thought they were being visited by gods. Rushing aboard to greet their visitors, the Kauaians were fascinated by what they saw: pointy-headed beings (the British wore tricorned hats) breathing fire (smoking pipes) and possessing a death-dealing instrument identified as a water squirter (guns). The amount of iron on the ship was incredible. (They had seen iron before in the form of nails on driftwood but never knew where it originated.)

Cook left Kaua'i and briefly explored Ni'ihau before heading north for his mission on February 2, 1778. When Cook returned to the islands in November after failing to find the Northwest Passage, he visited the Big Island of Hawai'i.

The Hawaiians had probably seen white men before. Local legend indicates that strange white people washed ashore on the Big Island sometime around the 1520s and integrated into society. This coincides with Spanish records of two ships lost in this part of the world in 1528. But a few weird-looking stragglers couldn't compare to the arrival of Cook's great ships and instruments.

Despite some recent rewriting of history, all evidence indicates that Cook, unlike some other exploring sea captains of his era, was a thoroughly decent man. Individuals need to be evaluated in the context of their time. Cook knew that his mere presence would have a profound impact on the cultures he encountered, but he also knew that change for these cultures was inevitable, with or without him. He tried, unsuccessfully, to keep the

men known to be infected with venereal diseases from mixing with local women, and he frequently flogged infected men who tried to sneak ashore at night. He was greatly distressed when a party he sent to Ni'ihau was forced to stay overnight due to high surf, knowing that his men might transmit diseases to the women (which they did).

Cook arrived on the Big Island at a time of much upheaval. The mo'i, or king, of the Big Island had been militarily spanked during an earlier attempt to invade Maui and was now looting and raising hell throughout the islands as retribution. Cook's arrival and his physical appearance (at 6-foot-4 he couldn't even stand up straight in his own quarters) almost guaranteed that the Hawaiians would think he was the god Lono, who was responsible for land fertility. Every year the ruling chiefs and their war god Ku went into abeyance, removing their power so that Lono could return to the land and make it fertile again, bringing back the spring rains. During this time all public works stopped, and the land was left alone. At the end of this *makahiki* season mankind would again seize the land from Lono so they could grow crops and otherwise make a living upon it. Cook arrived at the beginning of the *makahiki*, and the Hawaiians naturally thought *he* was the god Lono coming to make the land fertile. Cook even sailed into the exact bay where the legend predicted Lono would arrive.

The Hawaiians went to great lengths to please their "god." All manner of supplies were made available. Eventually they became suspicious of the visitors. If they were gods, why did they accept the Hawaiian women? And if they were gods, why did one of them die?

Cook left at the right time. The British had used up the Hawaiians' hospitality (not to mention their supplies). But shortly after leaving the Big Island, the ship broke a mast, making it necessary to return to Kealahou Bay for repairs. As they sailed back into the bay, the Hawaiians were nowhere to be seen. A chief had declared the area kapu to help replenish it. When Cook finally found the Hawaiians, they were polite but wary. Why are you back? Didn't we please you enough already? What do you want now?

As repair of the mast continued, things began to get tense. Eventually the Hawaiians stole a British rowboat (for the nails), and the normally calm Cook blew his cork. On the morning of February 14, 1779, he went ashore to trick the chief into coming aboard his ship where he would detain him until the rowboat was returned. As Cook and the chief were heading to the water, the chief's wife begged the chief not to go.

By now thousands of Hawaiians were crowding around Cook, and he ordered a retreat. A shot was heard from the other side of the bay, and someone shouted that the Englishmen had killed an important chief. A shielded warrior with a dagger came at Cook, who fired his pistol (loaded with small shot). The shield stopped the small shot, and the Hawaiians were emboldened. Other shots were fired. Standing in knee-deep water, Cook turned to call for a cease-fire and was struck in the head from behind with a club, then stabbed. Dozens of other Hawaiians pounced on him, stabbing his body repeatedly. The greatest explorer the world had ever known was dead at age 50 in a petty skirmish over a stolen rowboat.

KAMEHAMEHA THE GREAT

The most powerful and influential king in Hawaiian history lived during the time of Captain Cook and was born on the Big Island around 1758. Until his rule, the Hawaiian chain had never been ruled by a single person. He was the first to "unite" (i.e., conquer) all the islands.

Kamehameha was an extraordinary man by any standard. He possessed Herculean strength, a brilliant mind and boundless ambition. He was marked for death before he was even born. When Kamehameha's mother was pregnant with him, she developed a strange and overpowering craving—she wanted to eat the eyeball of a chief. The king of the Big Island, mindful of the rumor that the unborn child's real father was his bitter enemy, the king of Maui, asked his advisers to interpret. Their conclusion was unanimous: The child would grow to be a rebel, a killer of chiefs. The king decided that the child must die as soon as he was born, but the baby was instead whisked away to a remote valley to be raised.

In Hawaiian society, your role in life was governed by what class you were born into. The Hawaiians believed that breeding among family members produced superior offspring (except for the genetic misfortunates who were killed at birth), and the highest chiefs came from brother/sister combinations. Kamehameha was not of the highest class (his parents were merely cousins), so his future as a chief would not come easily.

As a young man, Kamehameha was impressed by his experience with Captain Cook. He was among the small group that stayed overnight on Cook's ship during Cook's first pass by of Maui. (Kamehameha was on Maui valiantly fighting a battle in which his side was get-

ting badly whooped.) Kamehameha recognized that his world had forever changed, and he shrewdly used the knowledge and technology of westerners to his advantage.

Kamehameha participated in numerous battles. His side lost many of the early ones, but he learned from his mistakes and developed into a cunning tactician. When he finally consolidated his rule over the Big Island (by luring his enemy to be the inaugural sacrifice of a new temple), he fixed his sights on the entire chain. In the 1790s his large company of troops, armed with some western armaments and advisors, swept across Maui, Moloka'i, Lana'i and O'ahu. After some delays with Kaua'i,

the last of the holdouts, its king finally acquiesced to the inevitable, and Kamehameha became the first ruler of all the islands. He spent his final years governing the islands peacefully from his Big Island capital and died in 1819.

MODERN HAWAII

During the 19th century, Hawai'i's character changed dramatically. Businessmen from all over the world came here to exploit Hawai'i's sandalwood, whales, land and people. Hawai'i's leaders, for their part, actively participated in these ventures and took a piece of much of the action for themselves. Workers were brought from many parts of the world, changing the racial makeup

O'ahu is blessed with more offshore islets than all the other Hawaiian islands combined.



of the islands. Government corruption became the order of the day, and everyone seemed to be profiting, except the Hawaiian commoners. By the time Queen Lili'uokalani lost her throne to a group of American businessmen in 1893, Hawai'i had become directionless. It barely resembled the Hawai'i Captain Cook had encountered the in previous century. The kapu system had been abolished by the Hawaiians shortly after the death of Kamehameha the Great. The "Great Mahele," begun in 1848, had changed the relationship Hawaiians had with the land. Large tracts of land were sold by the Hawaiian government to royalty, government officials, commoners and foreigners, effectively stripping many Hawaiians of land they had lived on for generations.

The United States recognized the Republic of Hawai'i in 1894 with Sanford Dole as its president. It was annexed in 1898 and became an official territory in 1900. During the 19th and 20th centuries, sugar established itself as king. Pineapple was also heavily grown in the islands, with the island of Lana'i purchased in its entirety for the purpose of growing pineapple.

As the 20th century rolled on, Hawaiian sugar and pineapple workers found themselves in a lofty position—they became the highest paid workers for these crops in the world. As land prices rose and competition from other parts of the world increased, sugar and pineapple became less and less profitable. Today, these crops no longer hold the position they once had. The "pineapple island" of Lana'i shifted away from pineapple growing and is focused on tourism. The sugar industry is now dead on the Big Island, O'ahu and Kaua'i, leaving only Maui to grow it commercially.

The story of Hawai'i is not a story of good versus evil. Nearly everyone shares in the blame for what happened to the Hawaiian people and their culture. Westerners certainly saw Hawai'i as a potential bonanza and easily exploitable. They knew what buttons to push and pushed them well. But the Hawaiians, for their part, were in a state of flux. The mere presence of westerners seemed to bring to the surface a discontent, or at least a weakness, with their system that had been lingering just below the surface.

In fact, in 1794, a mere 16 years after first encountering westerners and under no military duress from the West, Kamehameha the Great volunteered to cede his island over to Great Britain. He was hungry for western arms so he could defeat his neighbor-island opponents. He even declared that as of that day, they were no longer people of Hawai'i, but rather people of Britain. (Britain declined the offer.) And in 1819, immediately after the death of the strong-willed Kamehameha, the Hawaiians, of their own accord, overthrew their own religion, dumped the kapu system and denied their gods. This was *before* any western missionaries ever came to Hawai'i.

Nonetheless, Hawai'i today is once again seeking guidance from her heritage. The echoes of the past seem to be getting louder with time, rather than diminishing. Interest in the Hawaiian language and culture is at a level not seen in many decades. All of us who live here are very aware of the issues and the complexities involved, but there is little agreement about where it will lead. As a result, you will be exposed to a more "Hawaiian" Hawai'i than those who might have visited the state a generation ago. This is an interesting time in Hawai'i. Enjoy it as observers, and savor the flavor of the islands.