# Keeping the Spirit of Kaloko-Honokōhau Alive



Nä wai ola o Kane (life-giving waters of the god, Kane) provides the life essence in this dry district of West Hawai'i Island. Native Hawaiian conservation values protect the use of the land, sky, and sea by laying out specific guidelines for interactions between humans and nature. Kaloko-Honokōhau National Historical Park contains visible reminders, such as heiau (temples), loko i'a (fishponds), and ki'i pohaku (petroglyphs) that speak of the spirit of this place. Today, changes of population, resource use, and development alter the environment by compromising groundwater flow, marine life, and native species. The current challenge for this fragile national park is to keep the spirit alive by preserving these unique cultural and natural resources in the face of a rapidly developing landscape.



#### ~1200

A settlement is in place

and the Kaloko

Fishpond is constructed

#### 1778

#### Western contact accelerates changes in native culture, practice, and population

#### 1819

#### The kapu system is abolished after Kamehameha I dies, initiating major cultural changes

#### 1848

#### Great Mahele, a private property law, causes social and land use changes

#### 1962

#### Honokōhau settlement becomes a National Historic Landmark

#### 1978

Kaloko-Honokōhau National Historical Park is established

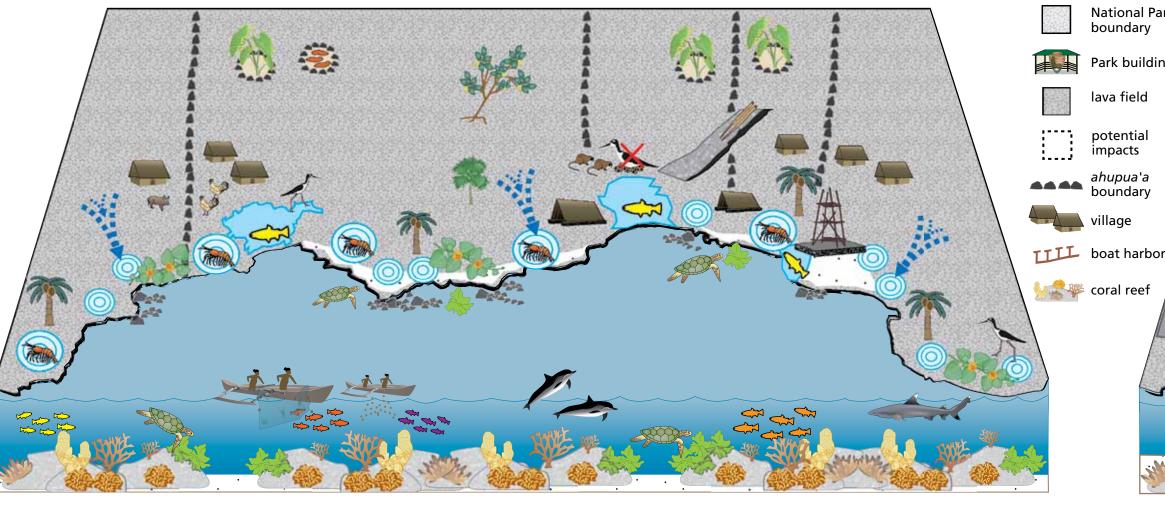
#### *approx.* 1650

## Kaloko-Honokōhau National Historical Park

Park building

ahupua'a boundary

#### present



#### Cultural and Natural Resources



villages and sacred sites such as heiau (temples) were built along the coast



sledding sport of the ali'i (chiefs)

early Polynesians brought many plants

a large stone slide was built for holua,



a few harmful species, such as rats,

arrived unseen with the Polynesians

and animals for their use



native plants were maintained for medicinal and ceremonial use



taro and sweet potato were cultivated in planters on the lava fields



groundwater recharged coastal pools and wetlands with fresh water



'opae 'ula (red shrimp), used for fish bait, lived in coastal brackish pools



used the coastal wetlands

fish were trapped and raised in loko

(ponds) for the *ali*'i (chiefs)

many resident and migratory birds



feeding fish by canoe, then netting, maintained the ko'a (fishing grounds)



abundant and diverse marine life communities existed along the reefs





historic and sacred sites remain culturally significant and relevent today



native plants are restored by park staff

endangered ae'o (Hawaiian stilt) and

invasive plants are removed and



fed by groundwater, brackish pools

other birds nest in park wetlands



still support unique and rare species

#### Threats and Human Impacts



introduced cats, rats, and mongoose threaten native bird populations

#### Threats and Human Impacts



dense development and heavy traffic cause light, air, and noise pollution



threaten groundwater resources

future urban developments will



excess nutrient runoff stimulates algae blooms, which can kill coral

wells extract groundwater, leading to

salt water intrusion into coastal pools



overfishing, increased boat traffic, and underwater noise affect marine life



invasive marine species transported by boats can damage native reef species









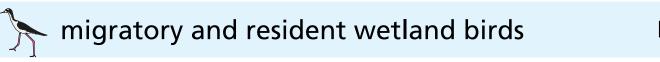




#### Cultural and Natural Resources

## pools and wetlands fed by groundwater

unique and culturally significant native plants



coast with high coral cover and fish diversity

# Threats and Human Impacts

proposed developments threaten groundwater



unregulated fishing reducing fish populations

introduced mammals reducing bird populations

#### Management Initiatives • limit groundwater withdrawal and pollutant inputs

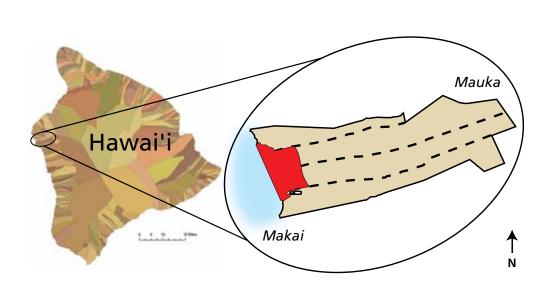


- reduce populations of small introduced mammals
- collaborate with state on marine resource management



Kaloko-Honokōhau National Historical Park (star) on the island of Hawai'i.





Ahupua'a land division map (left) with Hualalai watershed (circled) and park (red).