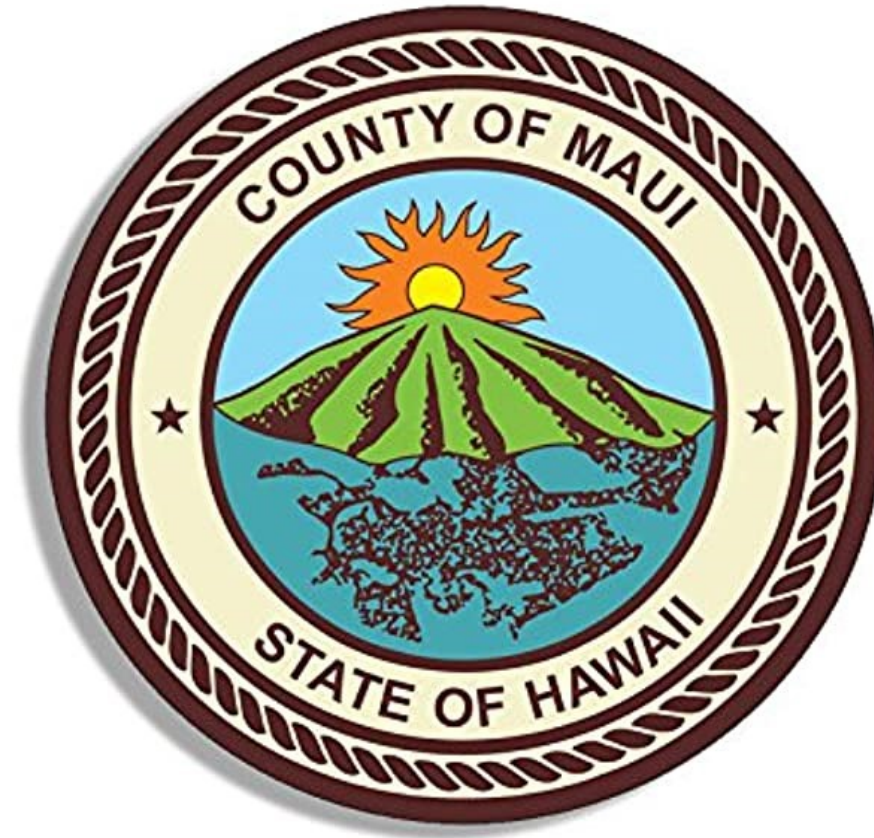


BUILDING THE MAUI COUNTY CULTURAL OVERLAY AGRICULTURE AND PUBLIC TRUST

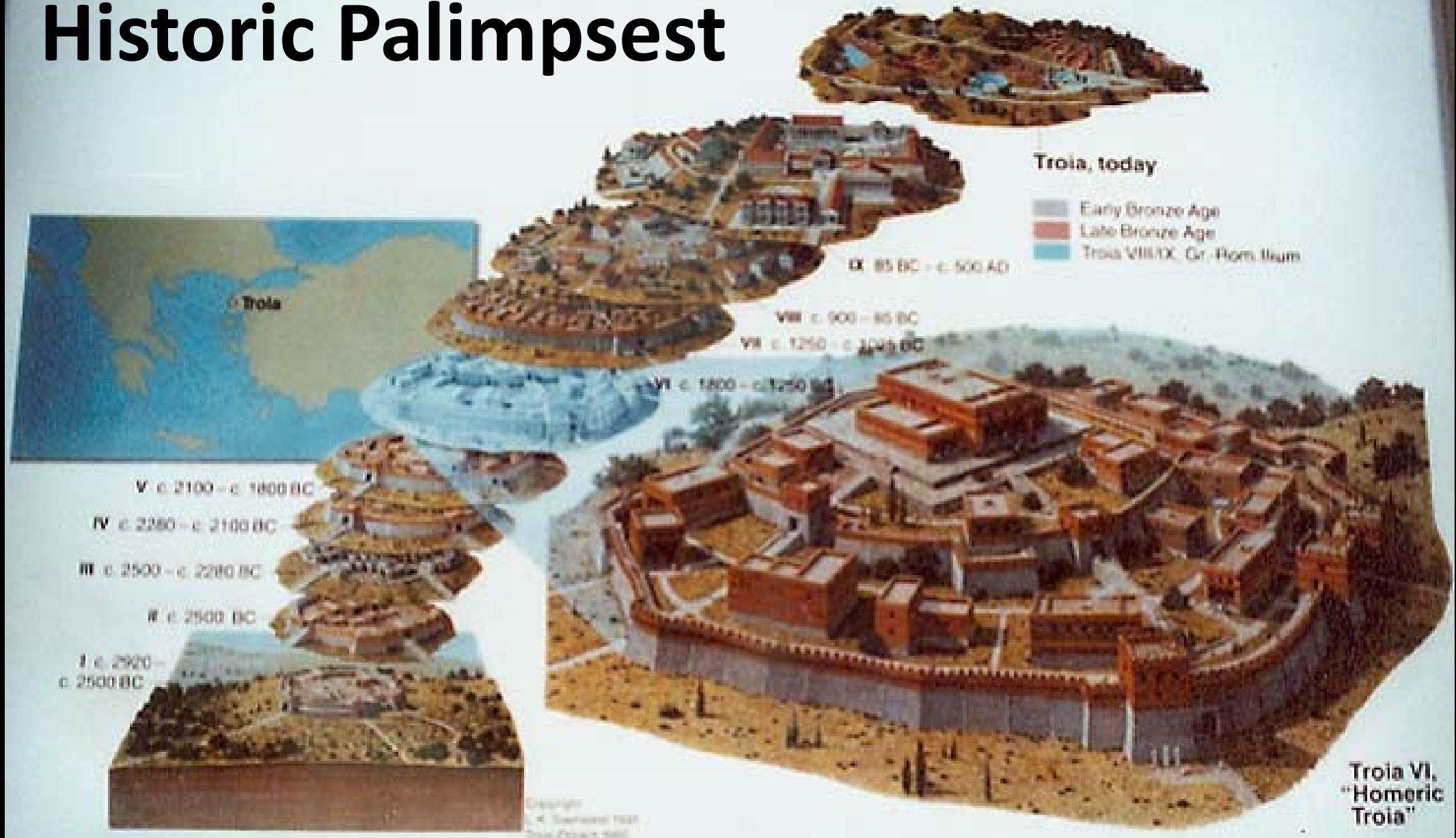


March 15, 2022

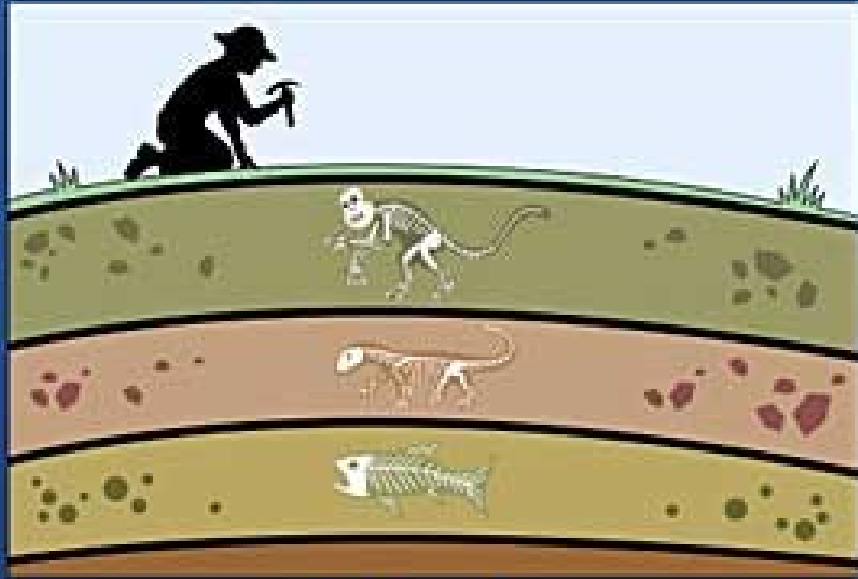
Displaying Data in Meaningful Ways

Geographic Information System (GIS)

Historic Palimpsest



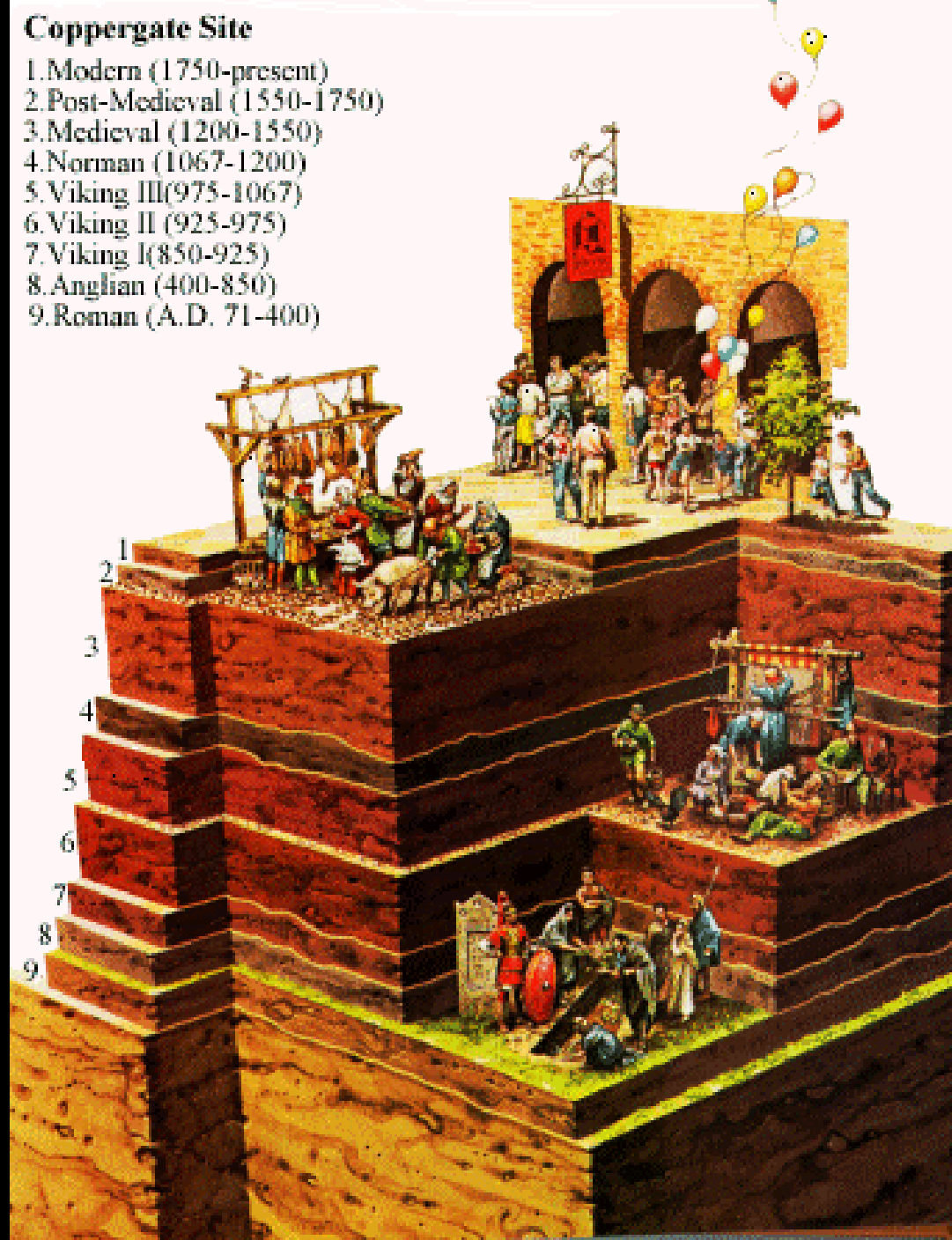
Over Time



...so the deeper we dig,
the farther back in time we see

Coppergate Site

1. Modern (1750-present)
2. Post-Medieval (1550-1750)
3. Medieval (1200-1550)
4. Norman (1067-1200)
5. Viking III (975-1067)
6. Viking II (925-975)
7. Viking I (850-925)
8. Anglian (400-850)
9. Roman (A.D. 71-400)

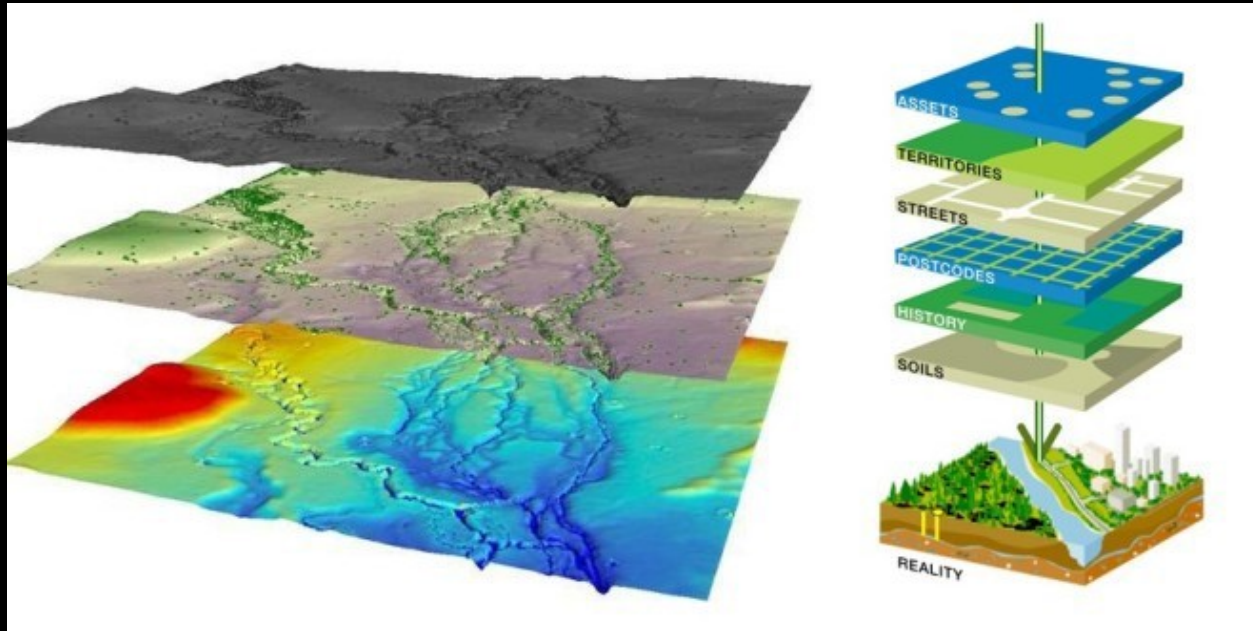


Across Space

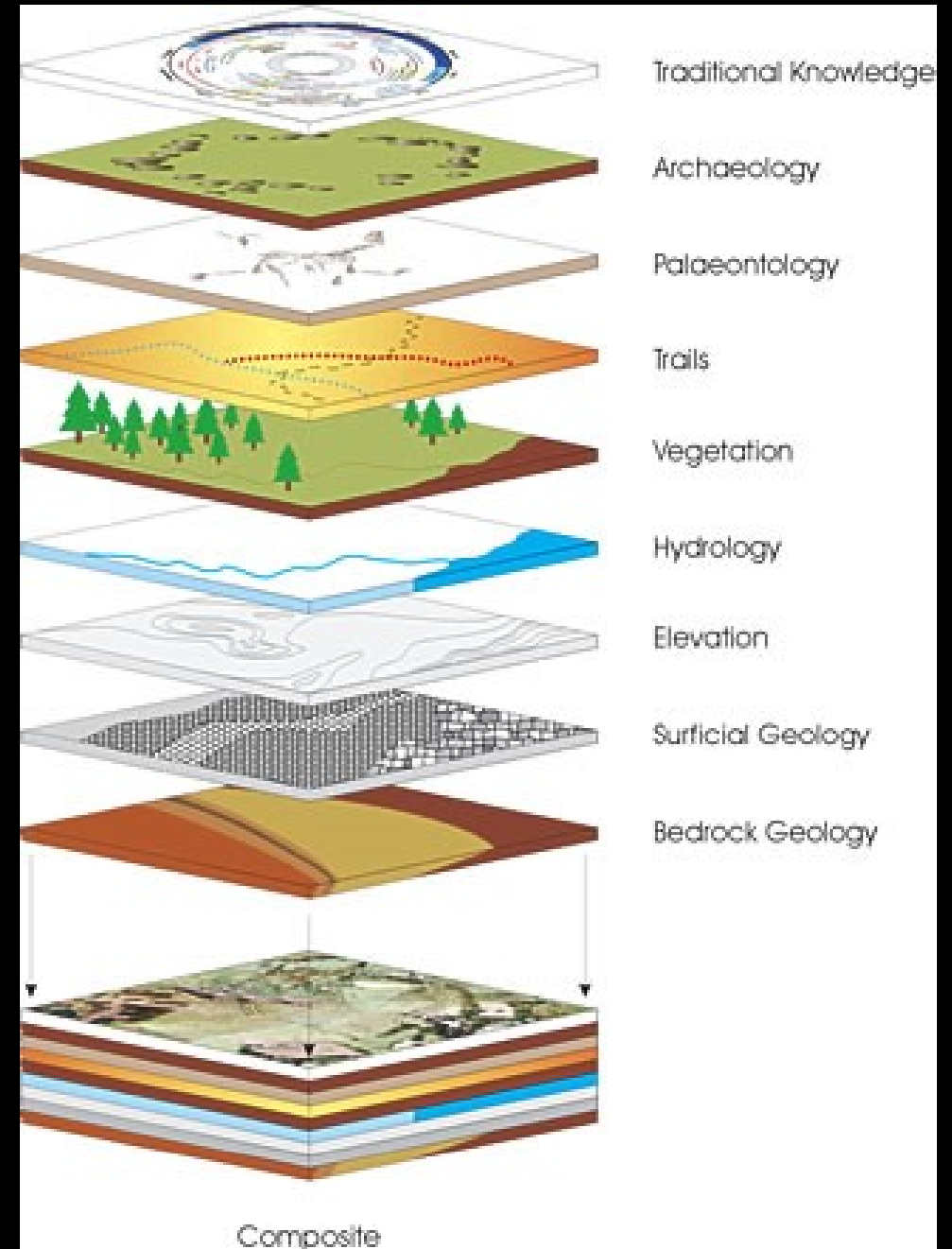
The analysis of spatial relationships **both within sites and between sites**



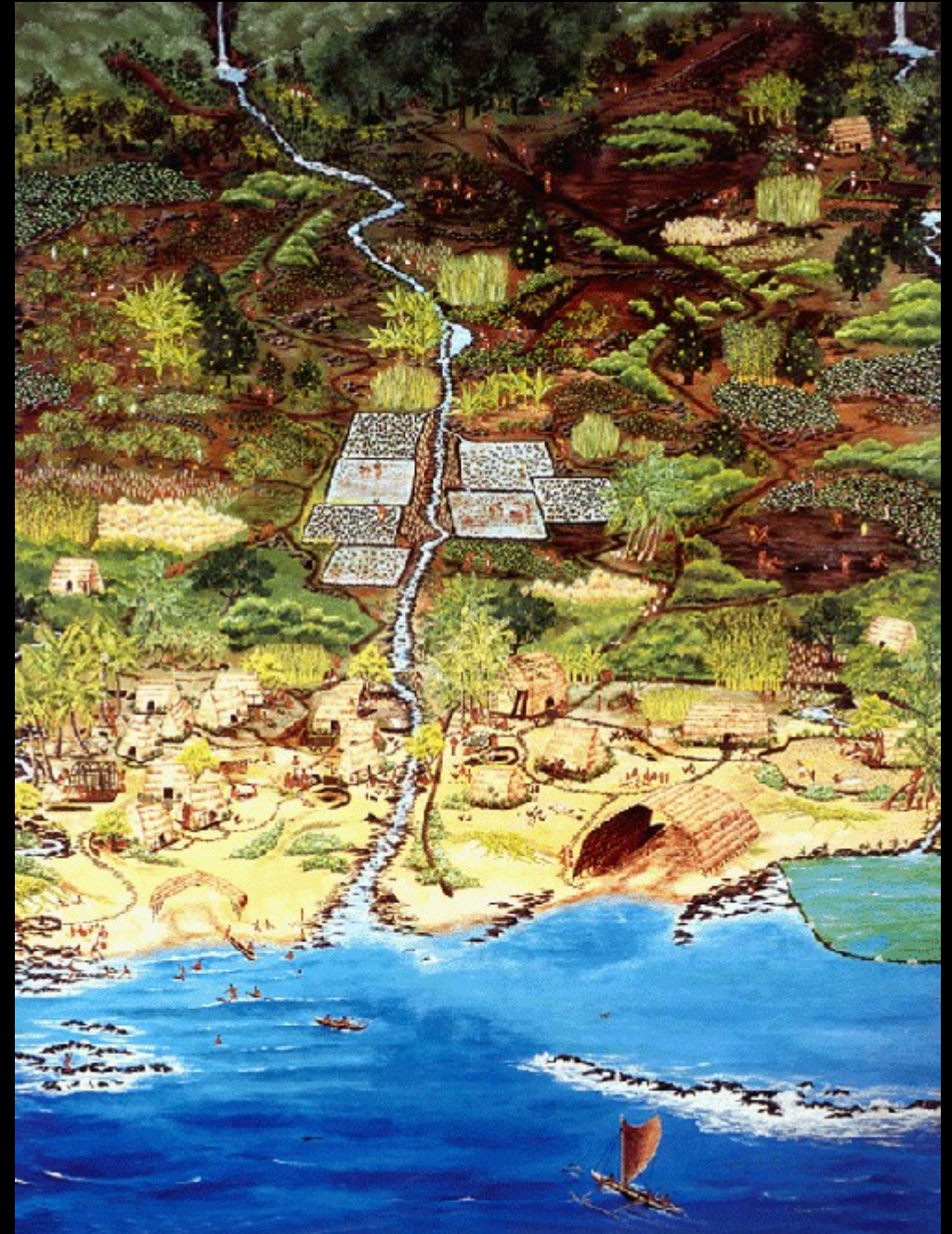
Map by Dr. John Snow of London, showing clusters of cholera cases in the 1854 Broad Street cholera outbreak. This was one of the first uses of map-based spatial analysis.



Geographic Information System (GIS) analysis is a useful tool for scientific research and data management. It provides a wider perspective to analyze cultural landscapes.



A Cultural Landscape consists of *material culture* including artifacts, biofacts (ecofacts), architecture (features), sites and the relationship between sites.



Continuous use over time



Surface Survey



**Pedestrian
(on foot)**

Satellite Imagery



Aerial Photography

Mapping Drones



The background of the slide is a composite image. It features a view of the Earth from space, showing the Americas and parts of Europe and Africa. The Earth is centered within the iris of a large, stylized eye. The pupil of the eye is a solid black circle, and the iris is composed of blue and white concentric rings, resembling a camera lens or a biological eye. The entire image is set against a solid black background.

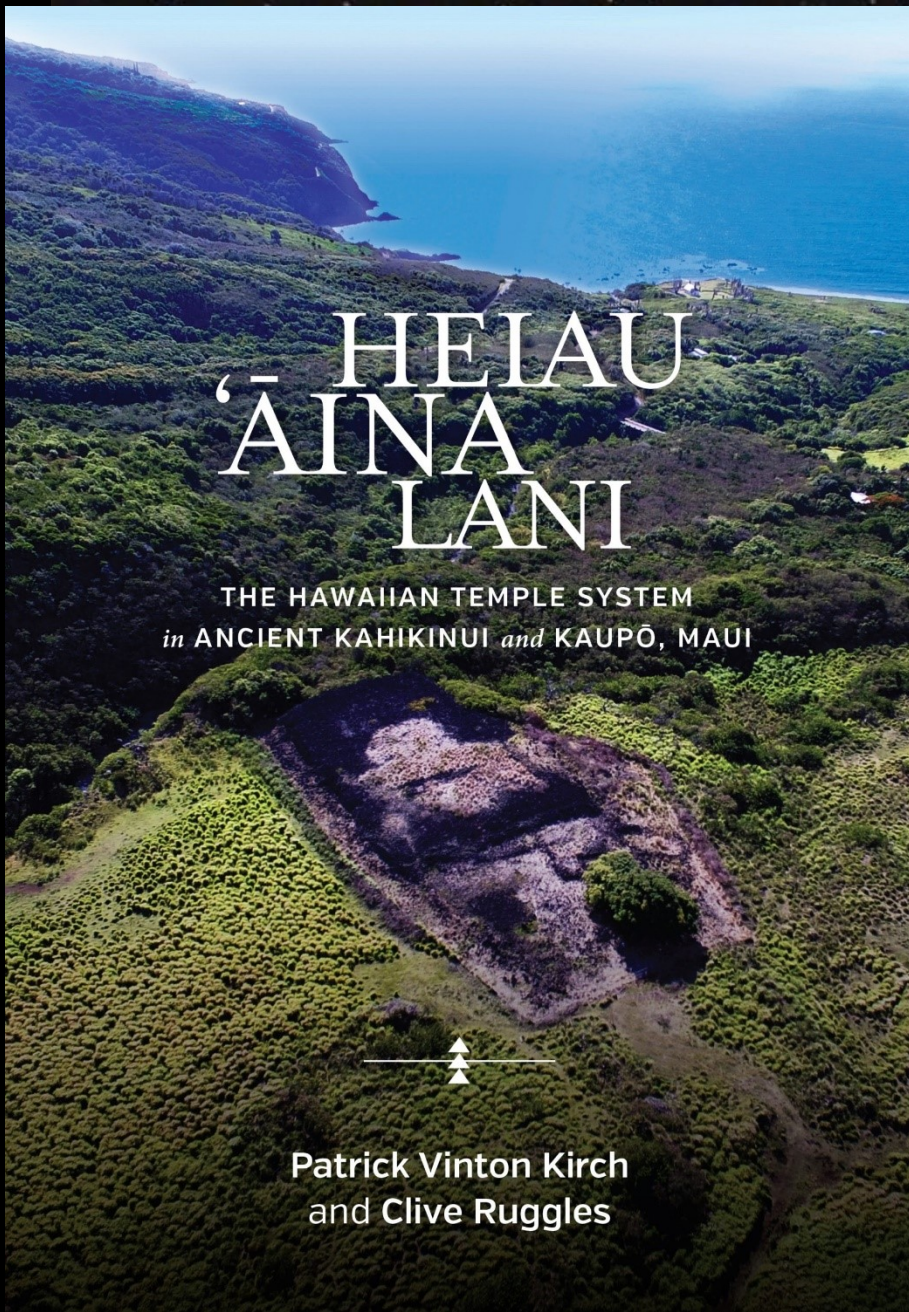
Applying a Cultural Lens



Wahi Pana & Wahi Kapu
Sacred & Tabu Cultural Landscapes

Archaeoastronomy:





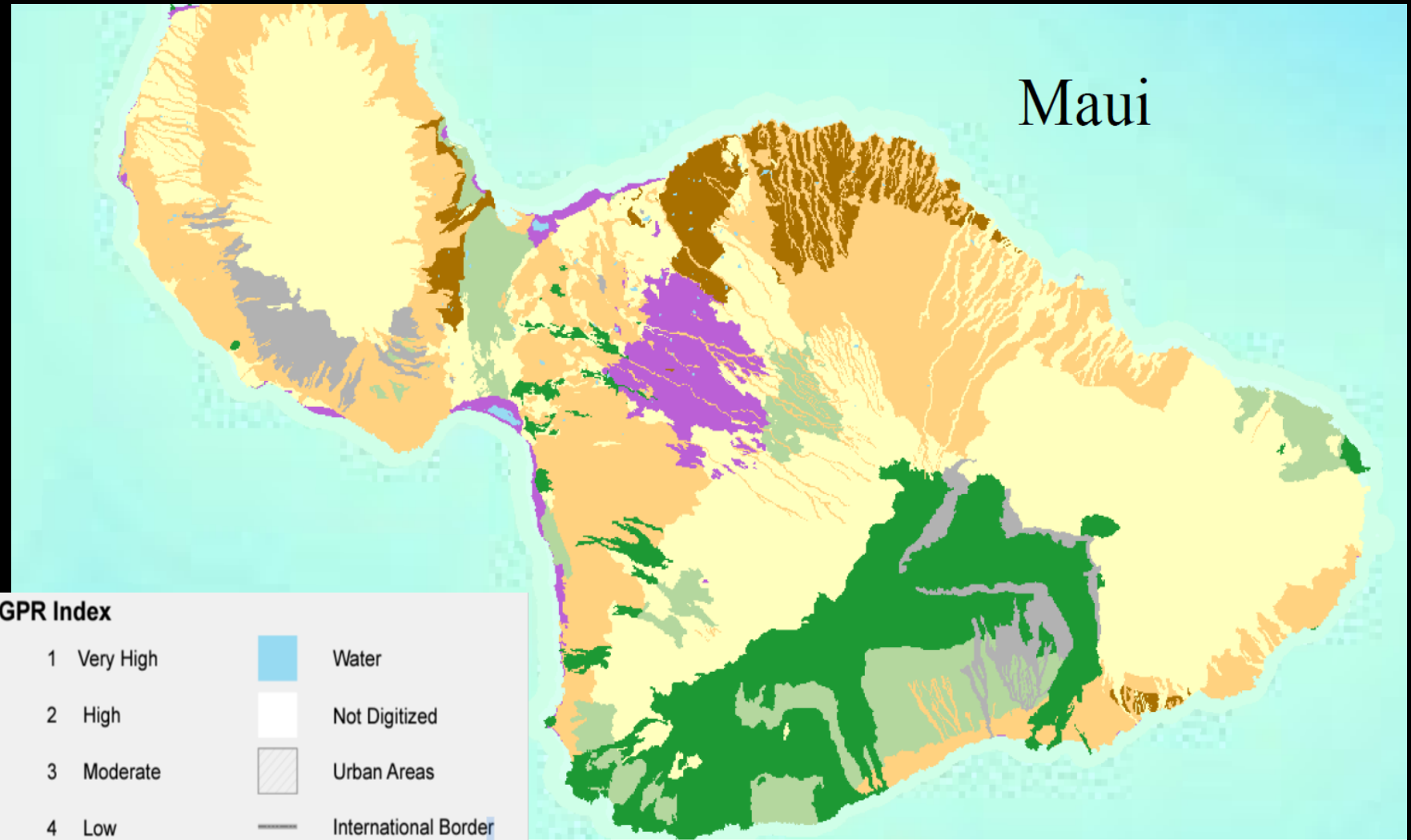
Heiau, 'Āina, Lani is a collaborative study of 78 temple sites in the ancient *moku* of Kahikinui and Kaupō in southeastern Maui, undertaken using a novel approach that combines archaeology and archaeoastronomy.

Its title, meaning “Temples, Land, and Sky,” reflects the integrated approach taken by Patrick Vinton Kirch and Clive Ruggles, based upon detailed mapping of the structures, precise determination of their orientations, and accurate dating.

Types of Data that can be Displayed

- Maps and Surveys
- Images
- Documents & Reports
- Sound Clips
- Video Clips
- Important Events
- Cultural knowledge
- Architecture
- Archaeological Sites

Soils Maps



USDA-NRCS. 2009. *Ground Penetrating Radar Suitability - Hawaii* (map). Using ArcGIS, Version 9.2 (Environmental Systems Research Institute, Inc., Redlands, Ca.). National Soil Survey Center, Lincoln, Nebraska. Scale 1:900,000. Map projection using Hawaii_Albers_Equal_Area, North American Datum 1983.

USDA-NRCS. 2008. Soil Survey Geographic Database (SSURGO) version 2.1. Hawaii Collection. Honolulu, Hawaii. Soil Data Mart Source (<http://soidatamart.nrcs.usda.gov>). April 2009 edition.

Soil Survey Staff. 2009. NSSC DATA - Ground Penetrating Radar Suitability Index (GPRSI) (data file) - National Soil Information System (Evaluation Draft - 02/2009). USDA Natural Resource Conservation Service, National Soil Survey Center, Lincoln, Nebraska. (<http://soils.usda.gov>).















Current County and Equivalent, TIGER/Line 2008 (cartographic boundary file, tl_2008_us_county.zip). 2008. U.S. Census Bureau. Available FTP: <ftp://ftp2.census.gov/geo/tiger/TIGER2008/>. [Accessed on February 20, 2009]

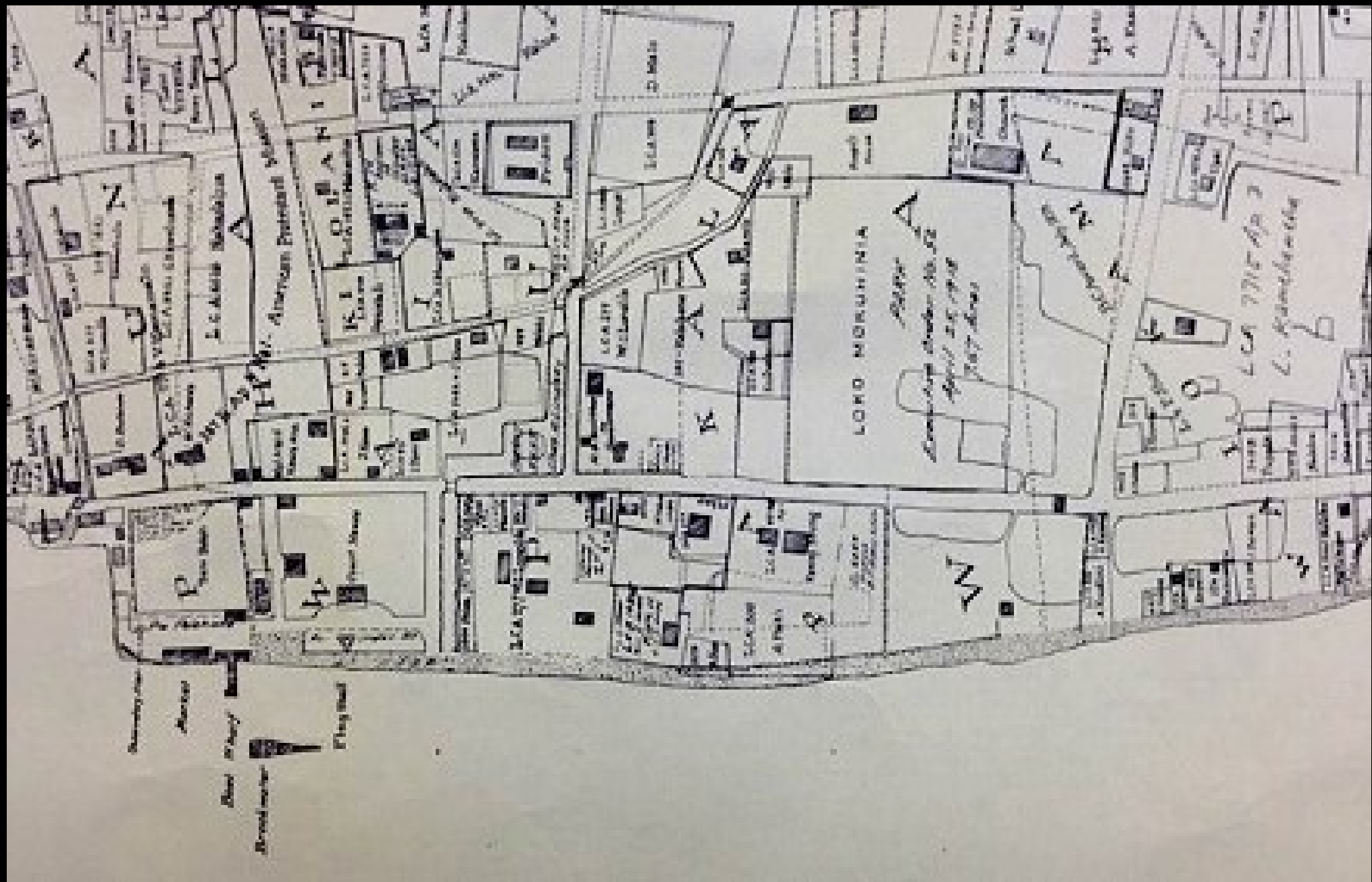
Current State and Equivalent, TIGER/Line 2008 (cartographic boundary file, tl_2008_us_state.zip). 2008. U.S. Census Bureau. Available FTP: <ftp://ftp2.census.gov/geo/tiger/TIGER2008/>. [Accessed on February 20, 2009]

Urban Areas (generalized cartographic boundary file, ua99_d00.shp.zip). 2000. U.S. Census Bureau. Available FTP: <http://www.census.gov/geo/cob/bdy/ua/ua00shp/>. [Accessed on February 20, 2009]

USGS. Analytical Hillshade computed from 1 kilometer National Elevation Dataset (NEDS) using the following parameters: 315 degrees altitude, 45 degrees azimuth, and z factor 1x. Prepared by USDA-NRCS-NSSC, Lincoln, NE.

GPR Index

	1 Very High		Water
	2 High		Not Digitized
	3 Moderate		Urban Areas
	4 Low		International Border
	5 Very Low		State Line
	6 Unsuited		County Line
	Not Rated		Interstate Highway



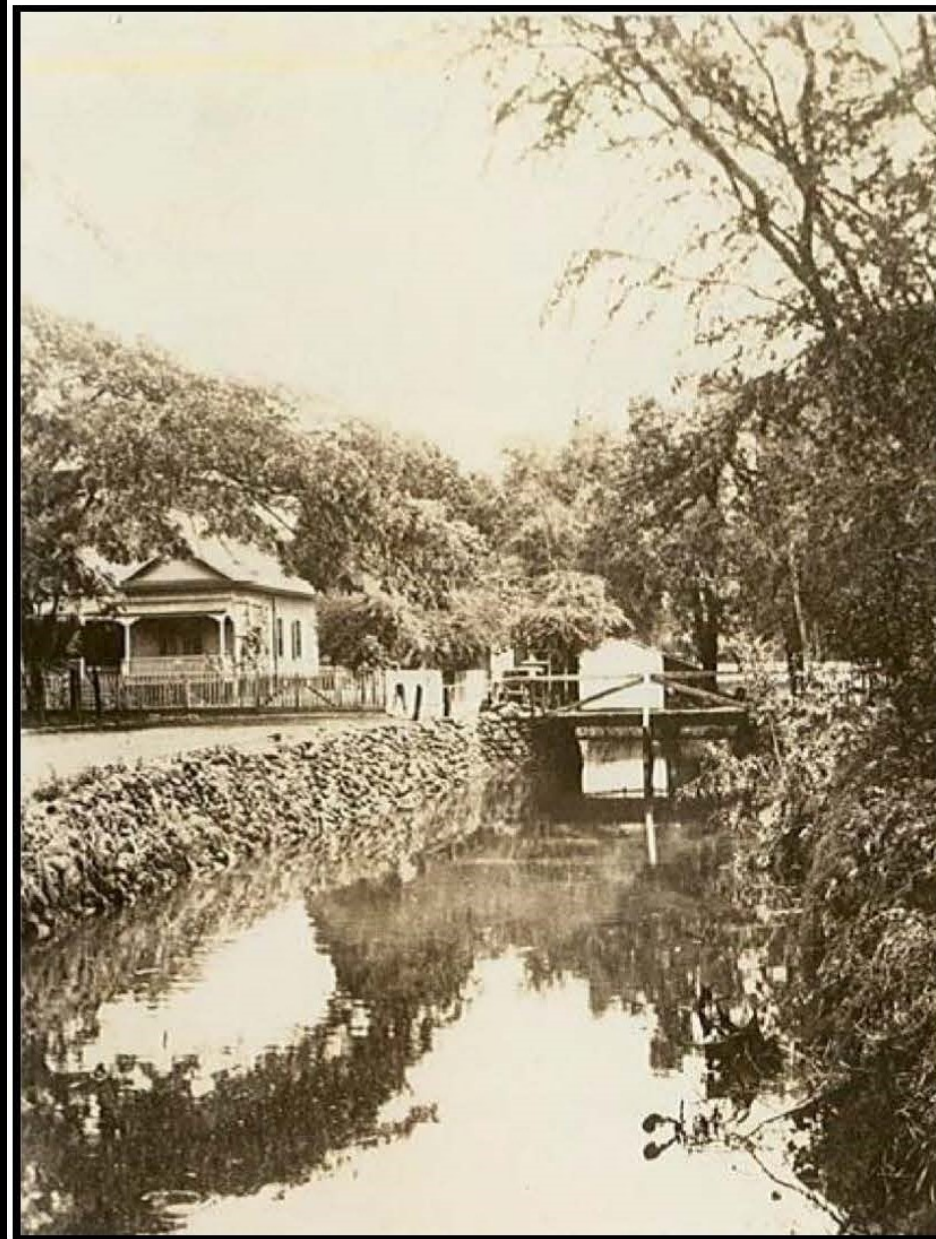
1884 Map of Lahaina by Alexander



Lahaina Harbor



Banyan Tree with fresh water well



Canal Street



Hoapili's House on the edge of Loko o Mokuhina



Kamehameha III & Royal Family

Buke Kakaui Paa

no ka mahale aina

i Kookooloia

iwaena o

Kamehameha III

a me

Na Lii

a me

Na Honohiki ana

Hale Hii Honolulu

Januari

1848.

Papa Hukikuki
no Keia Hike.

Victoria Kamahele 2.	Kahanaumakūhau 38.	Poko	69.
Leta Kapuniwa 8.	Kaholo	50.	Kaluaikaua 68.
Hesho Kalole 10.	Kalaumoku	50.	Kanauhā 70.
Kosa Hukuiwa 14.	E. H. Kamauna 3.	Huamā S. J.	52.
L. Konia 16.	Kaloimanolii	52.	Kalohokanui 70.
Kuta Hukilohani 16.	John Hall	52.	Pakikoo 70.
William Lunalilo 18.	Kali	52.	Kahanu 70.
M. L. Lelaikoku 20.	Kokuatou	54.	Kwikopaa 72.
M. Kakaonohi 26.	William Laron	54.	Lioika 72.
M. Kakaonohi 30.	L. Kakahele	54.	Kaahinohina 72.
Joane Li 30.	Kaahewa	54.	Kaawakanui 74.
Charles Kanaia 32.	H. H. Kakahele	54.	Kaholo 74.
P. Kamahele 32.	Kaawe	54.	Kaawakanui 74.
Isma Kaka 34.	Kapuaikohou 36.	Kokuatou	74.
Isma Kaka 34.	Kaulimae	56.	Kakala 74.
Kaua Kapahele 34.	Kokuatou	58.	Kakae 74.
Kokuatou 36.	Kakala	58.	P. S. Manini 74.
Kakahele 36.	Kokuatou	58.	Kakae 74.
John Stevenson 38.	Kanui	60.	Kakae 74.
John 38.	Kaukuahele	60.	E. Kakahele 80.
Kuluhi 38.	Kakae	60.	Kokuatou 80.
Paulo Kana 40.	Kakae	62.	Lute Kuku 80.
Ulu Kakahele 40.	Kanani	62.	Kakae 80.
Kakae 40.	Kaua	62.	Kakae 80.
Isma Kaka 42.	Kaua	64.	Kakae 80.
Kamahele Kuku 42.	Kuku	64.	Kakae 80.
Davida Kaulimae 42.	Kaua	64.	Kaua 80.
Kakae 44.	Kakae	64.	Kakae 80.
Lute Kakahele 44.	Kakae	64.	Kakae 80.
Kakae 46.	Kakae	64.	Kakae 80.
Kakae 46.	Kakae	66.	Kakae 80.
Kakae 46.	Kakae	66.	Kakae 80.
Kakae 48.	Kakae	68.	Kakae 80.
Kakae 48.	Kakae	68.	Kakae 80.

Māhele

**DRAFT -- Archaeological Inventory Survey Report for the
Proposed Mokuhinia Ecosystem Restoration Project
Waiokama and Lower Waine‘e Ahupua‘a, Lāhainā District,
Maui Island**

TMK: [2] 4-6-007: 001, 002, and 036-038

**Prepared for
County of Maui**

**Prepared by
Tanya L. Lee-Greig, M.A.
Jonas Madeus, B.A.
Zachariah Royalty, B.A.
Frederick LaChance, B.A.
Josie Yucha, M.A.
Jennifer Frey, B.A.
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**Cultural Surveys Hawai‘i, Inc.
Wailuku, Hawai‘i
(Job Code: WAINEE 6)**

December 2017

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Fax: (808) 244-1994**



Moku`ula and Mokuhinia c. 1900



Hawai'i Cultural Resources Information System

<https://shpd.hawaii.gov/hicris/search>

Canal St, Lahaina, HI, 96761

Archaeological Resource

Resource Number	2019RE00500
Entity Type	Resource
Resource Name	King Kamehameha III's Royal Residential Complex
Resource Type	Archaeological
Resource Classification	Site
SIHP Number	50-50-03-02967
View Details	View

Zoom to 3 of 9

Resource Mapping Hawaii | County of Hawaii; City and County of Honolulu; County of Kauai; County of Maui; Hawaii Statewide GIS Program. Powered by Esri

<https://shpd.hawaii.gov/hicris>

Office of Hawaiian Affairs

<http://kipukadatabase.com/kipuka/>

KIPUKA

246007002

Go



Search Results



TMK (1)

Historic Sites (0)

'Ili (0)

Ahupua'a (0)

Moku (0)

Land Awards

Crown Lands (0)

Tmk

Owner



246007002

State DLNR

Ahupuaa : Pana'ewa

Lahaina Historic District
Site Number:03001
State Site:50-50-03-03001

Land Award
Type: Land Commission Award
Claimant: Makaulia
Helu: 10221 & 10218:3

Land Award
Type: Land Commission Award
Claimant: Makaulia
Helu: 10221:1

Tax Map Key Parcel
TMK#: 246011006
Owner: Lokahi - Condo Master
Trust Land Status: Null

Tax Map Key Parcel
TMK#: 246011008
Owner: Aina Nalu - Condo Master
Trust Land Status: Null

Tax Map Key Parcel
TMK#: 246011999
Owner: Road
Trust Land Status: Null

Ahupua'a: Paunau
Moku: Lāhainā
Mokupuni: Maui



**First we make the layer cake
and then we can embellish it.**





Coming soon

The Maui County Cultural Layer

APT Committee

From: Janet Six <Janet.Six@co.maui.hi.us>
Sent: Friday, March 11, 2022 3:13 PM
To: APT Committee
Subject: Cultural Overlay Pres.
Attachments: Cultural Overlay pres.pptx

Follow Up Flag: Follow up
Flag Status: Completed

You don't often get email from janet.six@co.maui.hi.us. [Learn why this is important](#)

Aloha kakou,

See attached PowerPoint I will be presenting on the 15th.
Happy Aloha Friday!
J6

Janet Six, PhD
Principal Archaeologist for the County of Maui