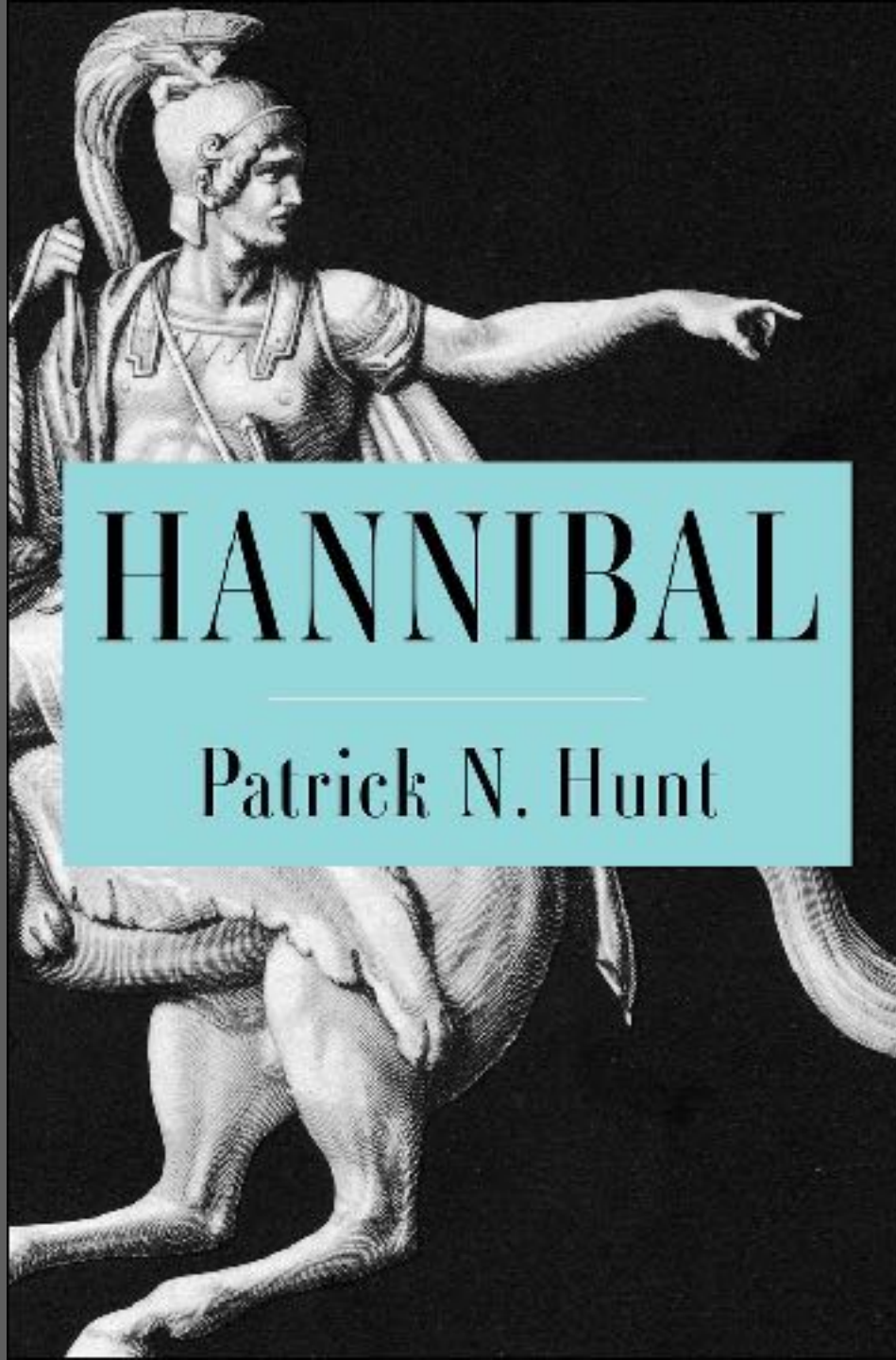


INSTITUTE FOR THE STUDY OF WESTERN CIVILIZATION 11/9/18

MACHU PICCHU

CIRCA 1460 TO 1911-16 AND BEYOND

**DR. PATRICK HUNT
STANFORD UNIVERSITY**



HANNIBAL

Patrick N. Hunt

Simon and
Schuster
2017

Machu Picchu - Lost City of the Inca





Hiram
Bingham
in 1912

Hiram Bingham
1912

Quechua
Woman
of Highlands



Inca
Emperor
Pachuti
c. 1450
(16th. c.)

ELI O VENO INGA PACHACUTI INGA

IVPAHQVI



Reyno Gas in Chile y de to Inguar Jellera pacha qui

Inca Empire

“Tawantin Suyu”

1430-1540



Peru in South America, Machu Picchu in Peru





Machu Picchu





Cuzco Region Map

Below
Machu Picchu



Aerial View of Machu Picchu



Possible Precedents?





Hiram
Bingham
in 1912

Hiram Bingham
1912

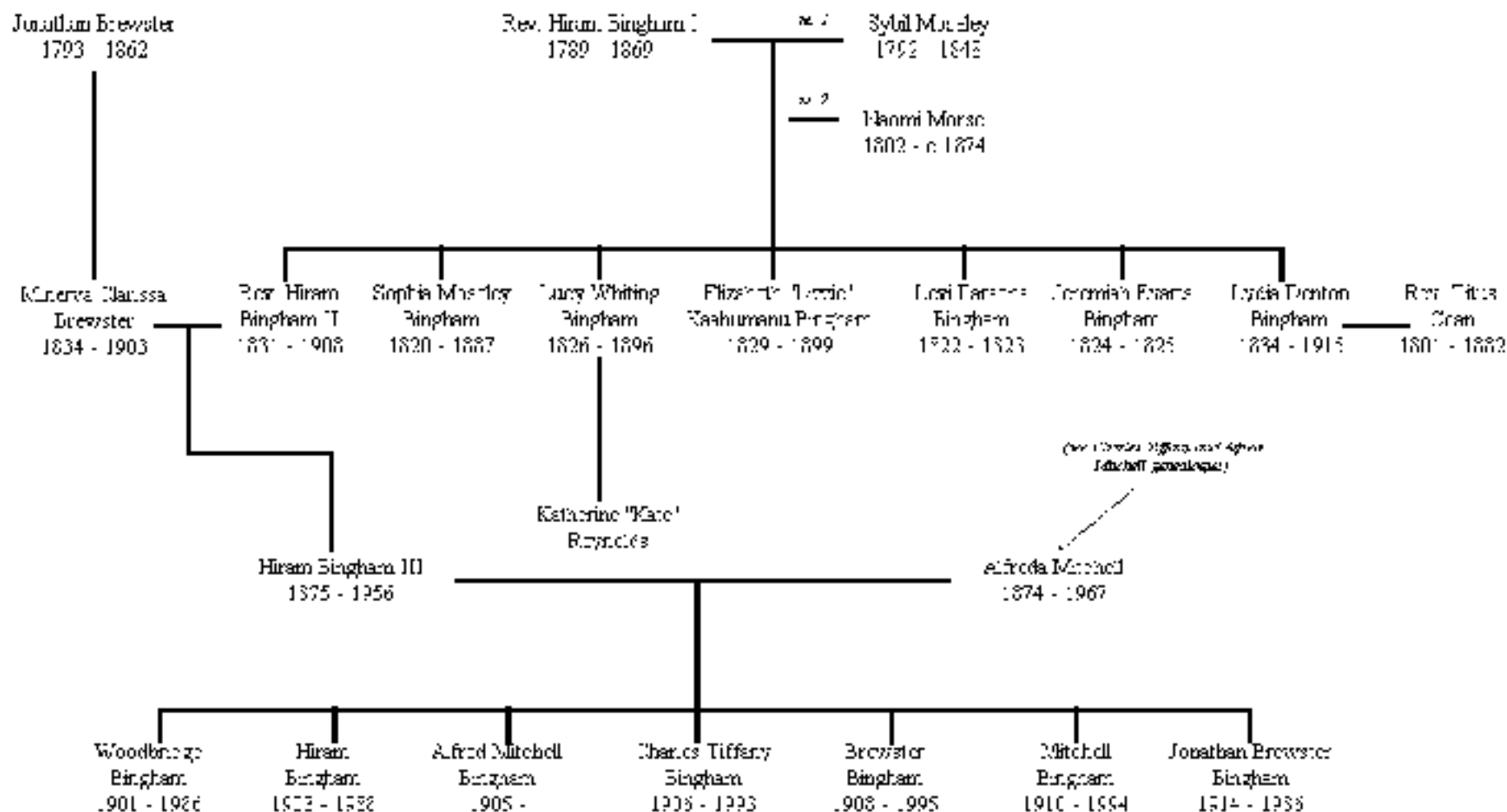
Bingham's Parents

Missionaries to
South Pacific



Bingham Family Tree

Hiram Bingham Genealogy



Hiram Bingham in 1912 (37)





Regional Satellite Photo



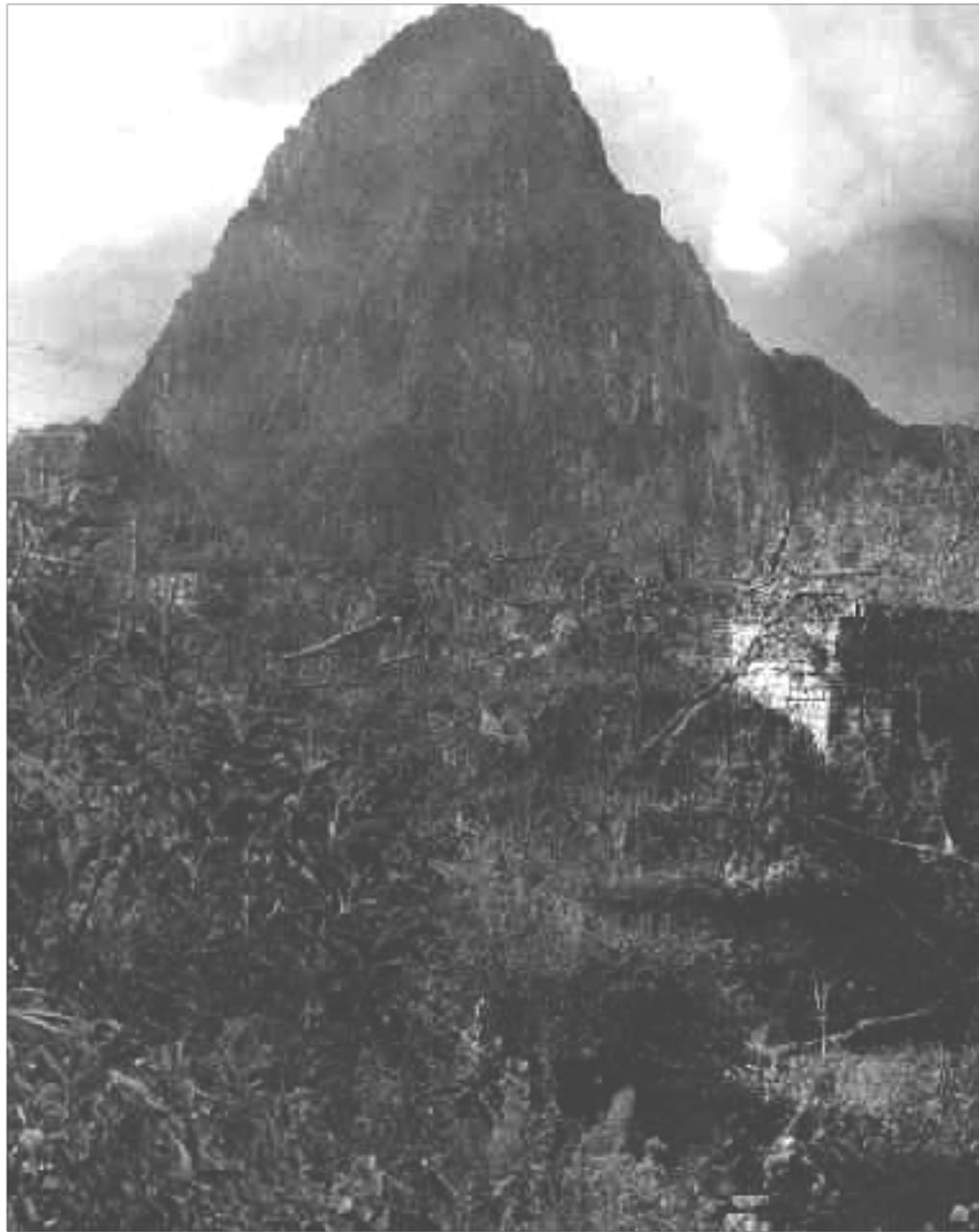
Hiram Bingham's account:

"The morning of July 24th dawned in a cold drizzle. Arteaga shivered and seemed inclined to stay in his hut. I offered to pay him well if he showed me the ruins. He demurred and said it was too hard a climb for such a wet day. But when he found I was willing to pay him a *sol*, three or four times the ordinary daily wage, he finally agreed to go. When asked just where the ruins were, he pointed straight up to the top of the mountain. No one supposed that they would be particularly interesting, and no one cared to go with me."



Machu Picchu

Initial
Clearing
in 1912



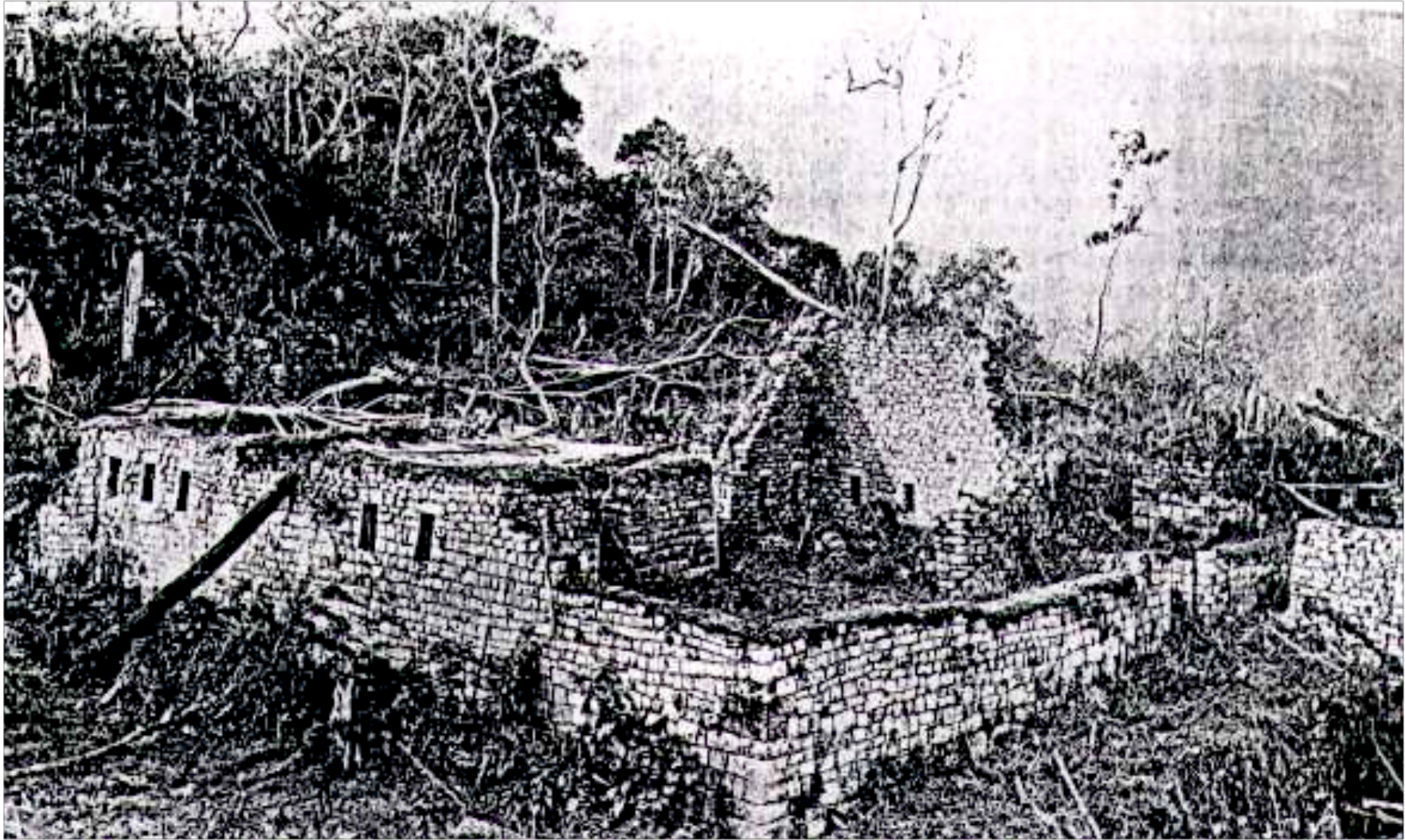


“In several cases we found gigantic trees perched on the very tips of the gable ends of small and beautifully constructed houses,” Hiram Bingham



Quechua workers clearing the site in 1912

Site Clearing in 1912



National Geographic Society (and Magazine) through 1916...

Senator
Bingham
in 1931
with
autogiro



Senator
Hiram
Bingham
autogiro
in 1931





Aviation pioneers circa 1935



Orville Wright, Hiram Bingham and Amelia Earhart circa 1935

HIRAM BINGHAM

Lieutenant Colonel, United States Army

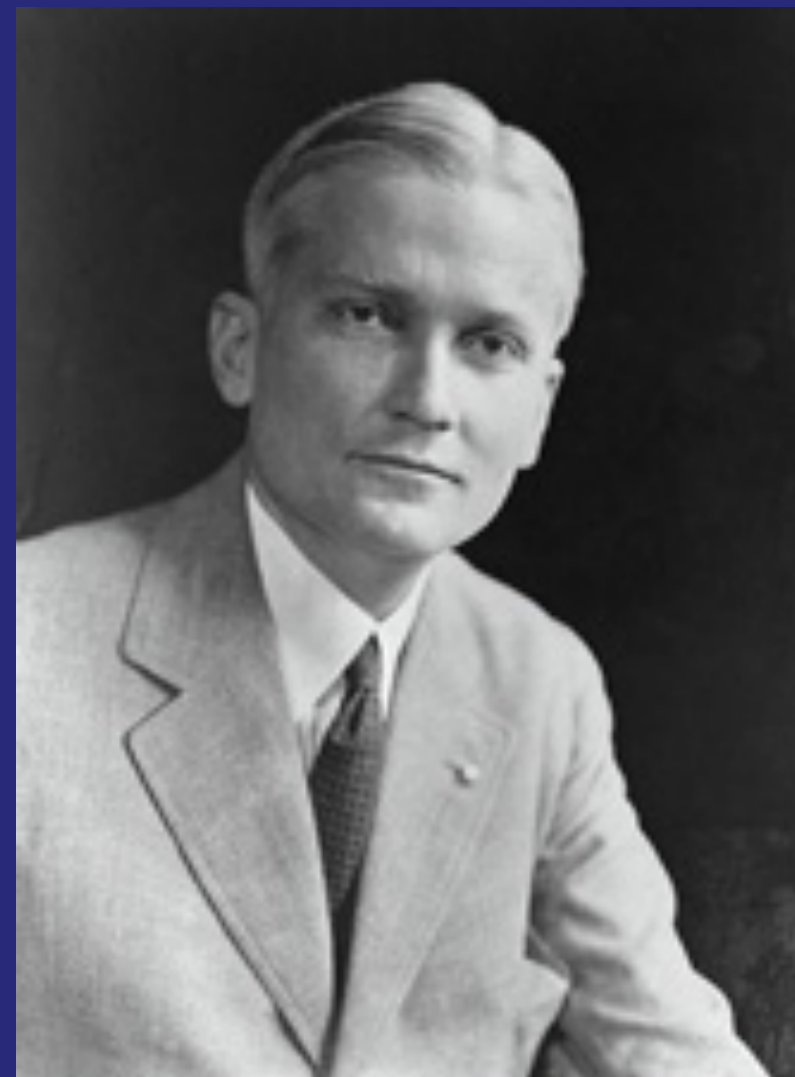
United States Senator

Explorer - Government Official

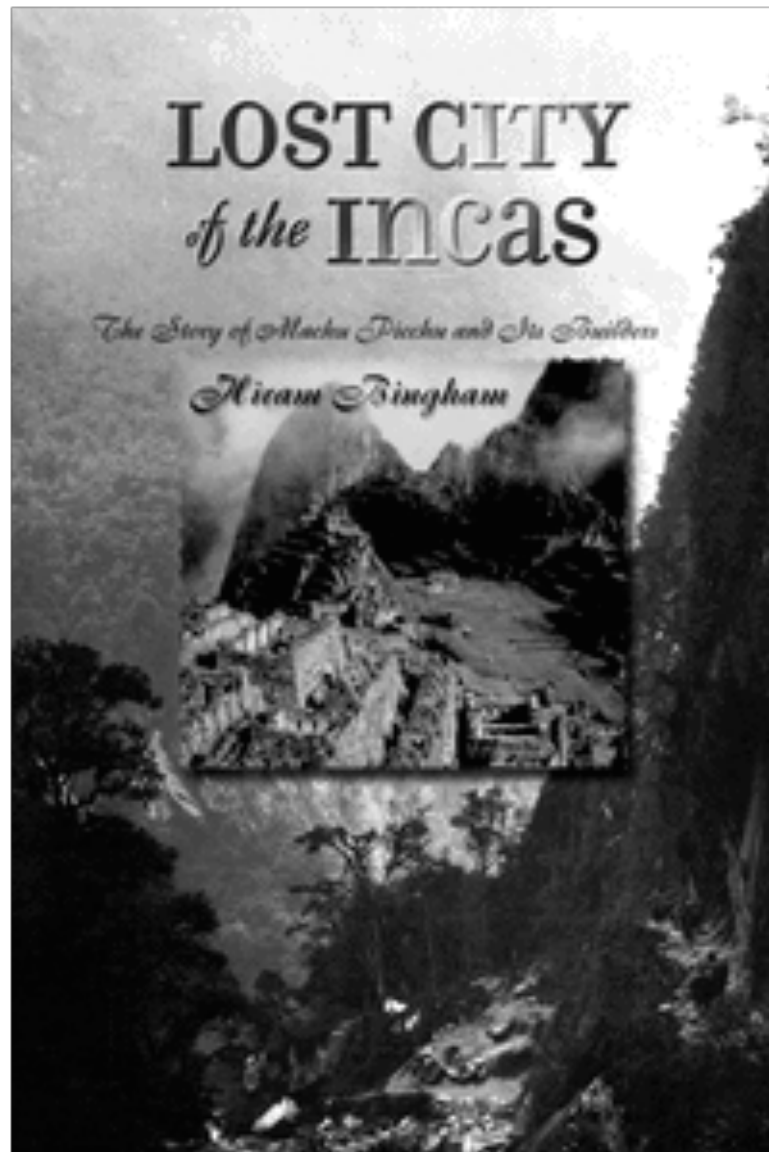
1875 - 1956

"In the variety of [Machu Picchu's] charms and the power of its spell, I know of no place in the world which can compare with it. Not only has it great snow peaks looming above the clouds more than two miles overhead, gigantic precipices of many-colored granite rising sheer for thousands of feet above the foaming, glistening, roaring rapids; it has also, in striking contrast, orchids and tree ferns, the delectable beauty of luxurious vegetation, and the mysterious witchery of the jungle."

- Hiram Bingham



L.A. Times: "Bingham model for Indiana Jones"



Bingham 's account alongside his family's biography (by son)



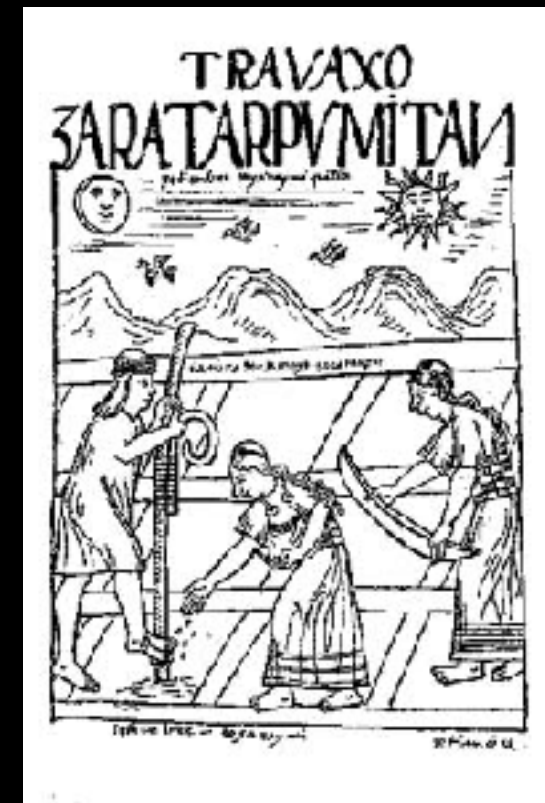
Hiram Bingham's Gravestone at Arlington National Cemetery

Urubamba - Yucay Valley



Anta Plateau





Amauta Inca Astronomer, Poet, Composer, Botanist, High Priest
(Guaman Poma, *Nueva Cronica*, 16th c.)

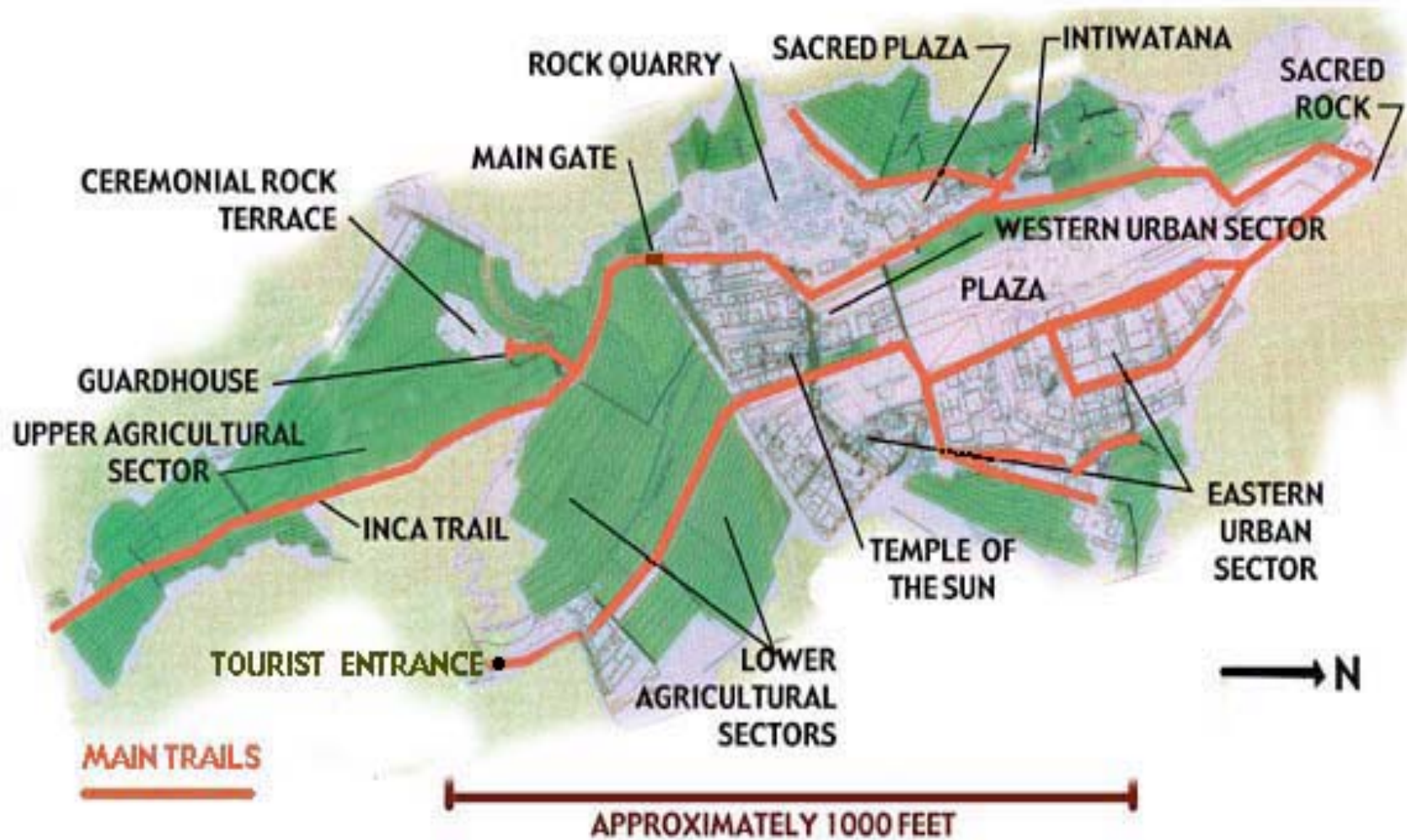
Machu Picchu





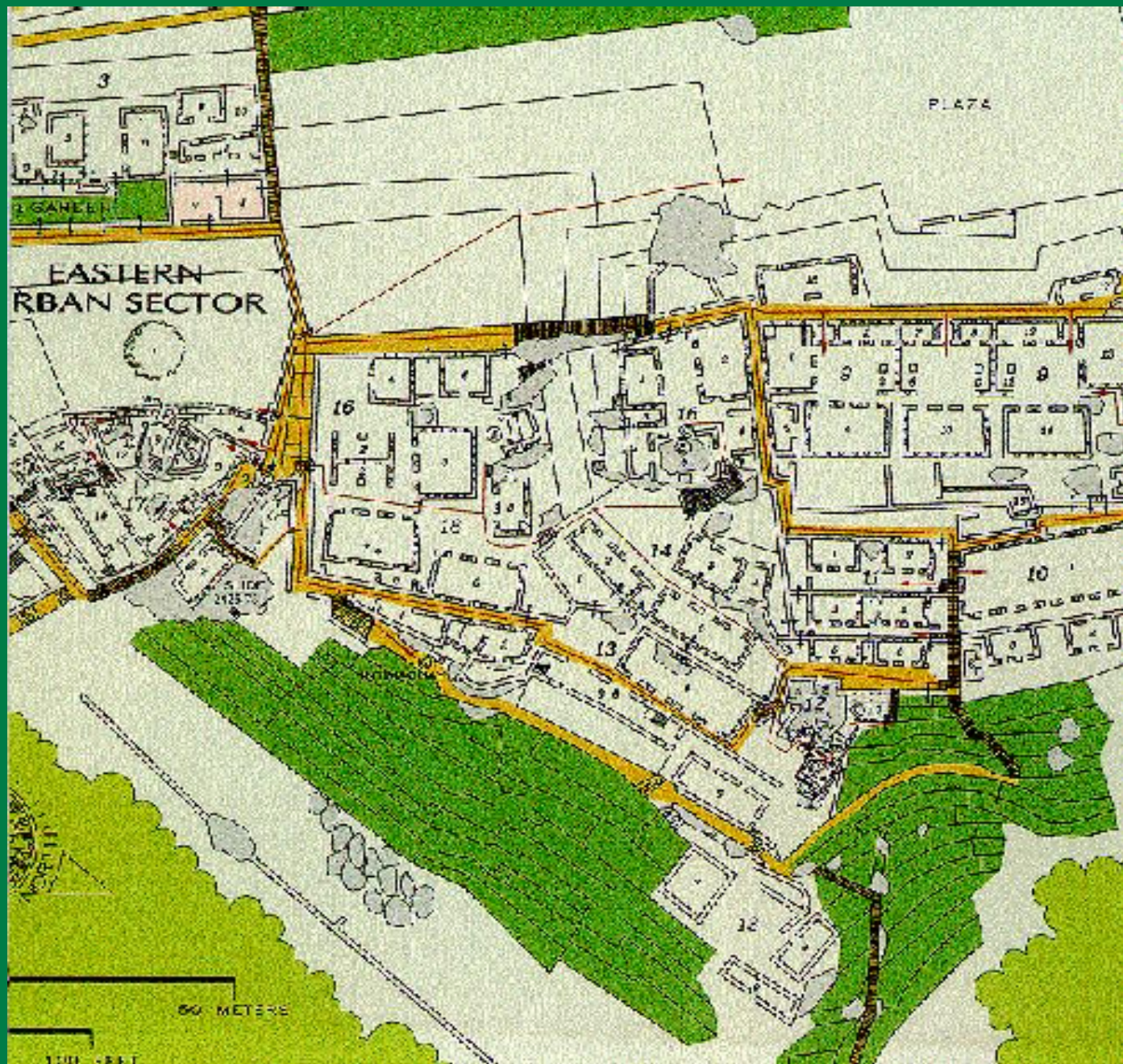
Machu Picchu





Plan of Machu Picchu

Plan of Western Urban Sectors





Andene Terraces



House of the Three Windows



Mamacuna House (Virgins of the Sun) Ollantaytambo

Mamacuna
House





Machu Picchu and Wayna Picchu



Temple of the Moon below Wayna Picchu

Gateway to Machu Picchu from Inca Trail

Upper Western Urban Sector - Royal Quarter ?

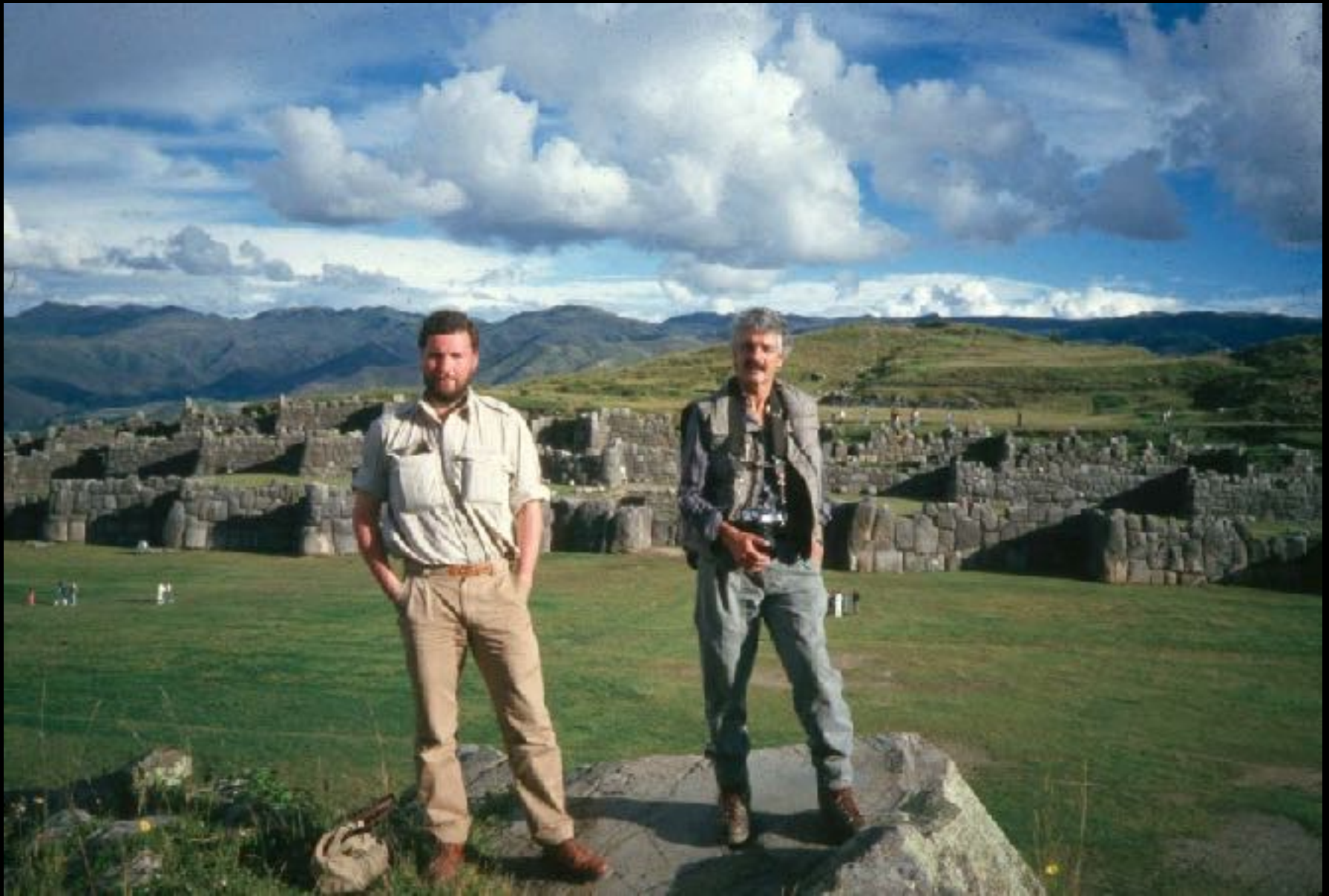




Western Residential Quarter

Hunt on
Andene
stairs





Dafydd Griffiths

Jean-Pierre Protzen

Protzen on
Kachiqata trail





Protzen examining wall niches

Ollantaytambo

fitted stones
and lichen





Workers' Quarter ?

Prison Quarter?



Eastern Urban Quarter



Agricultural Quarter



Staircases and stoneworking





Fitted stones from face view (12 facets)

Polygonal Ashlars (note 12 faceted angles)



Inca vs. Colonial Stoneworking



CUZCO





Stone wall foundation



Stoneworking at Machu Picchu

Trapezoidal Niche



Machu Picchu's Sixteen Fountains





Tipon Waterworks

Rumiqolqa
Quarry

Protzen
Stoneworking



Hunt
stoneworking
at Rumiqolqa





Torreón Sun Temple



Royal Tombs (?) below Torreón Sun Temple



Intiwatana



Intiwatana “Hitching Post of the Sun”

Inti Raymi
Festival



Mt. Salcantay



Inca Trail
above
Machu Picchu





Principal Temple

sacred stone aligns and
points at night to Southern
Cross

9 pm on May 2





No shadow when noon sun is
directly overhead on March 21st and
September 21st

Dec 21 dawn solstice light beam
at Sacred Shrine of Intiwatana

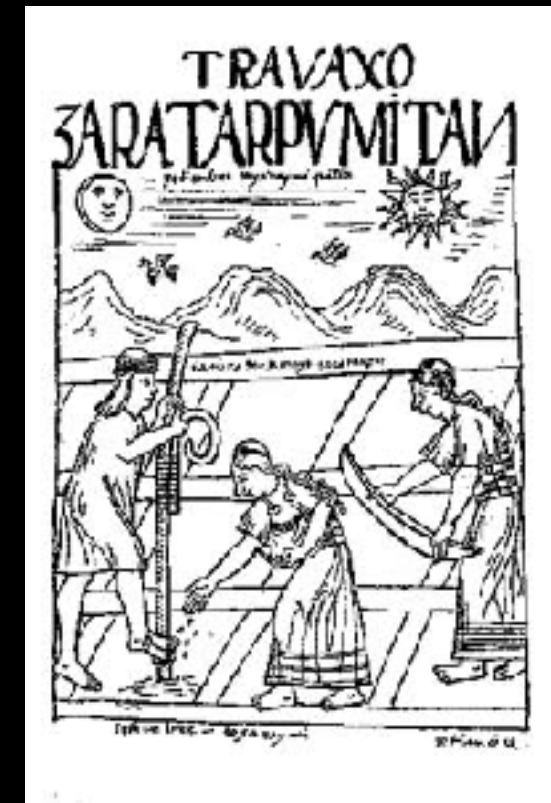




Natural Acoustics: Granite walls



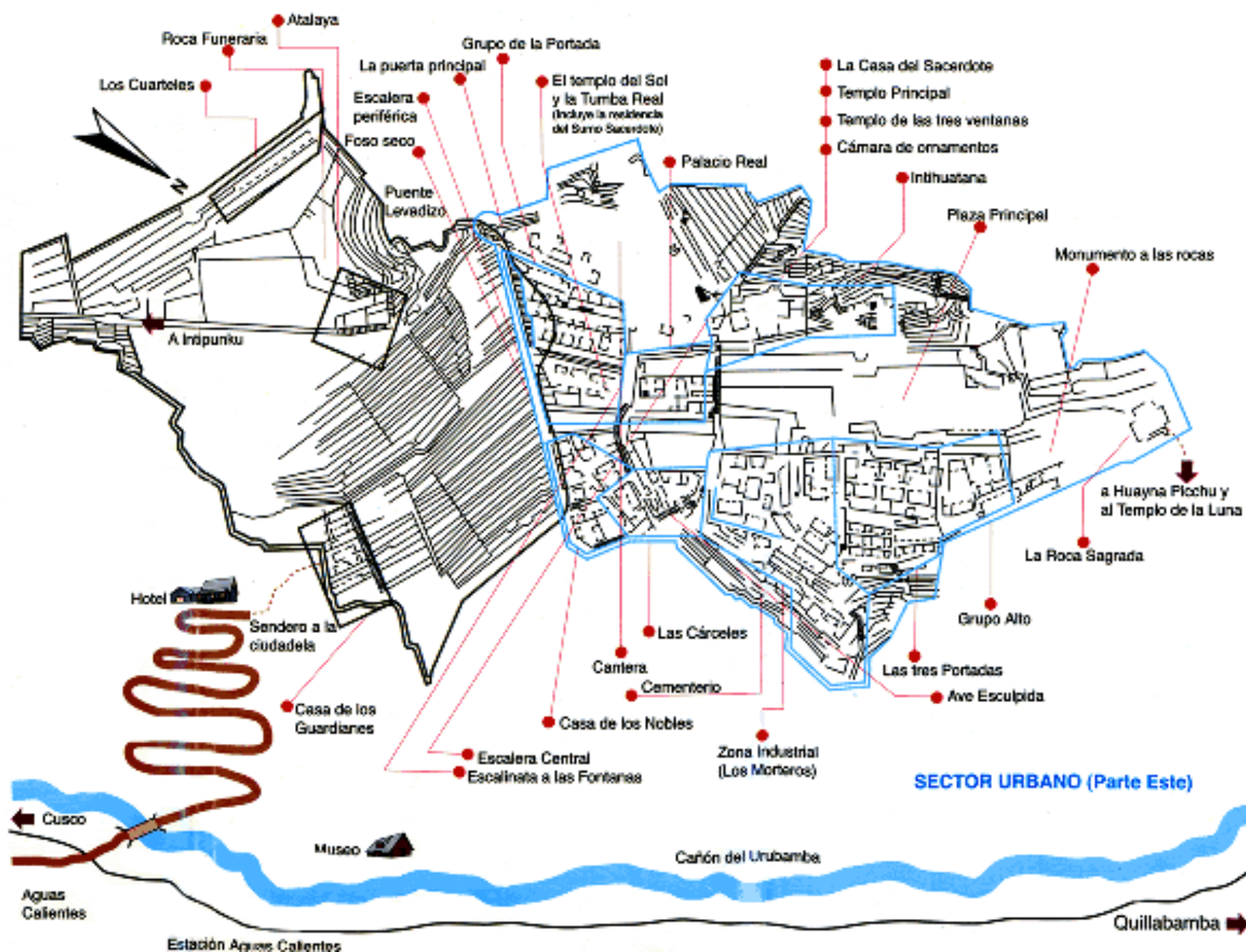
Inca Amphitheater ?



Amauta Inca Astronomer, Poet, Composer, Botanist, High Priest
(Guaman Poma, *Nueva Cronica*, 16th c.)

SECTOR AGRICOLA TERRAZAS

SECTOR URBANO (Parte Oeste)







View of amphitheater





Rainbows and Amautas...





Machu Picchu - Lost City of the Inca

