

Wednesday October 29, 2014

X. Colonization: Oceania, The Final Frontier



1-2 paragraph
Summary
On the Human
Prehistory
Part of the Film
Due Monday

Today go to:
<http://tinyurl.com/CELPlive>

CAL POLY
SAN LUIS OBISPO

SPECIAL SCREENING

BECOMING CALIFORNIA

Environmental Change on America's Western Edge

OCT. 23, 2014 SPANOS THEATRE
6:30-8:30 P.M.

Narrated by **Jane Fonda**
Original Music by **Pat Metheny**




PLUS A LIVE Q&A SESSION WITH PRODUCERS:

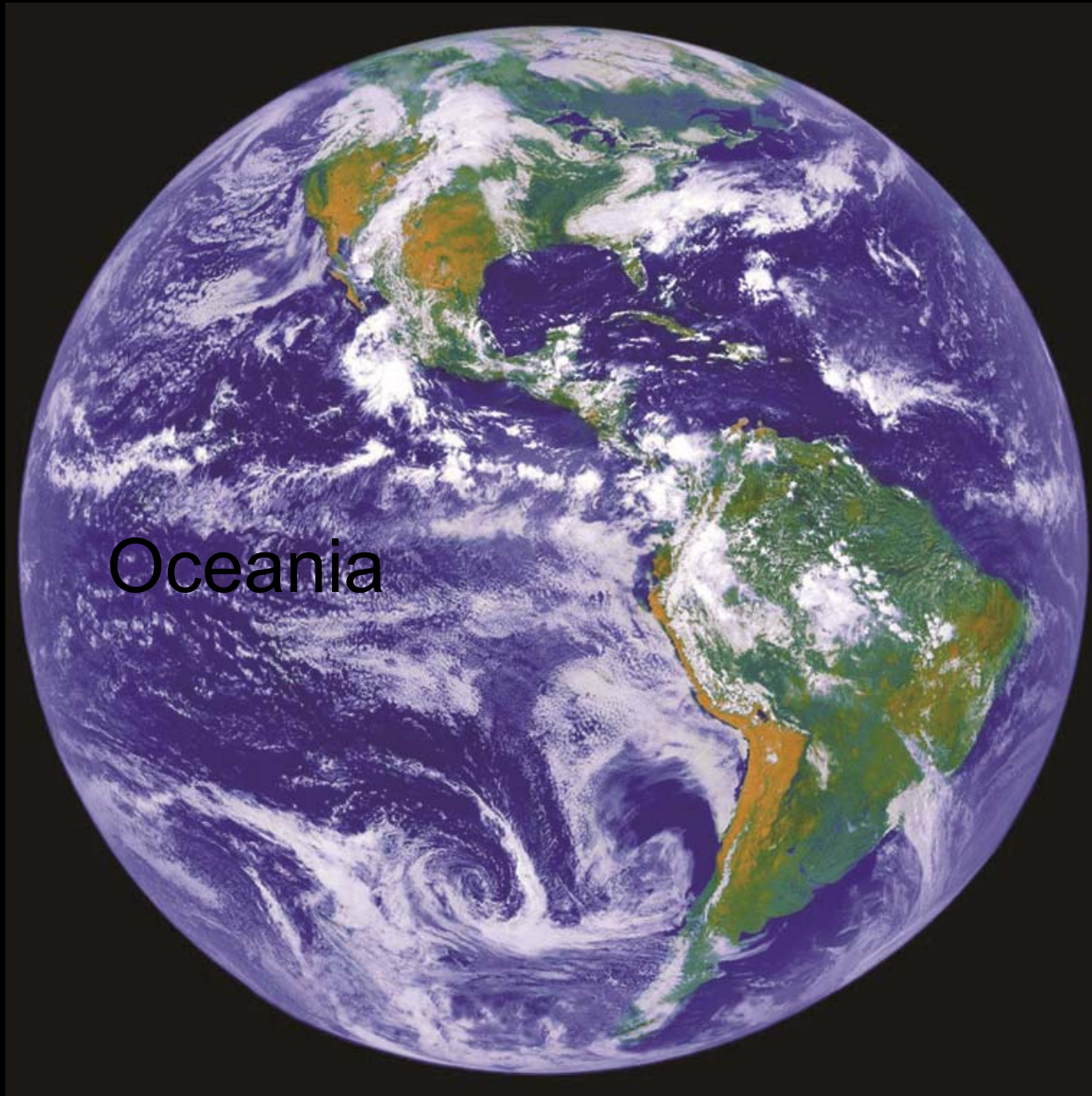
 **KIT TYLER**  **JEFFREY WHITE**



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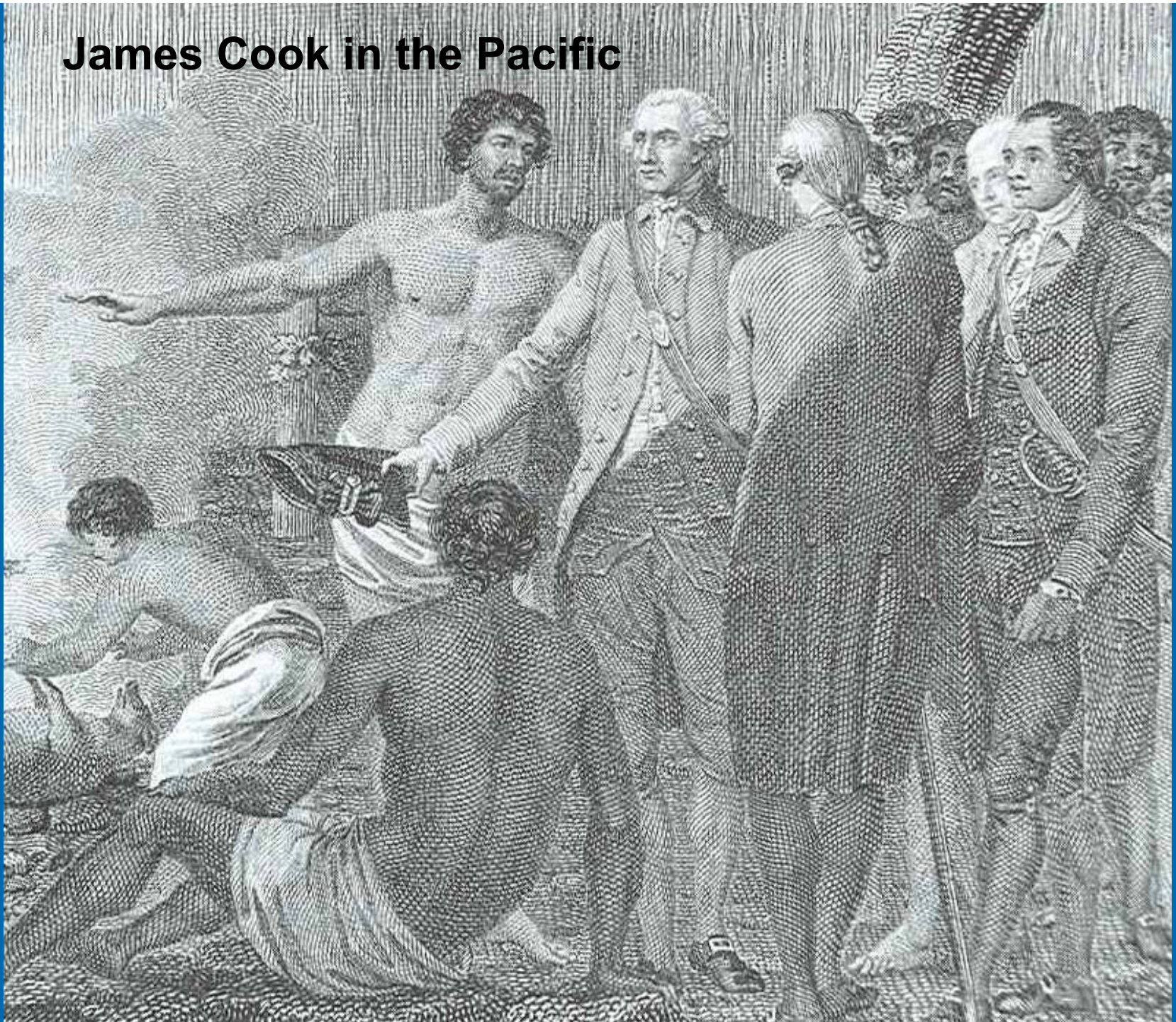
PROCESSES IN WORLD PREHISTORY

MYA	Biological Evolution	Colonization	Adaptation	Technology
	AMHSS  HOMO  Australo-pithecus  Ardipithecus	OCEANIA NEW WORLD SIBERIA EUROPE ASIA AFRICA	Broad Spectrum Foraging and Farming HUNTING/ GATHERING SCAVENGING/ GATHERING	COMPOSITE WEAPONS ART FIRE STONE TOOLS SIMPLE PERISHABLE TOOLS
1.0				
2.0				
3.0				
4.0				

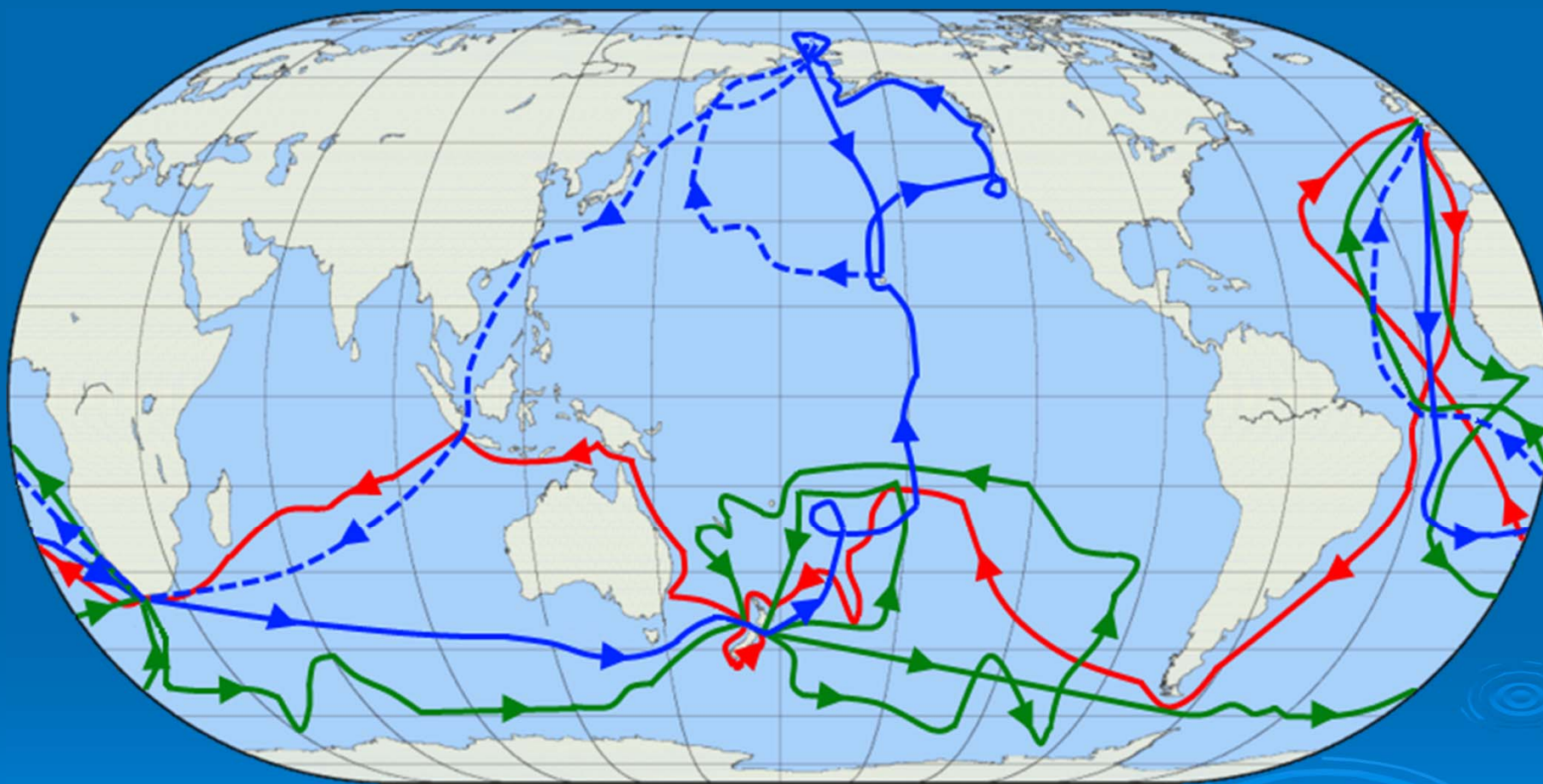


Oceania

James Cook in the Pacific



Voyages of Captain James Cook 1768-1769

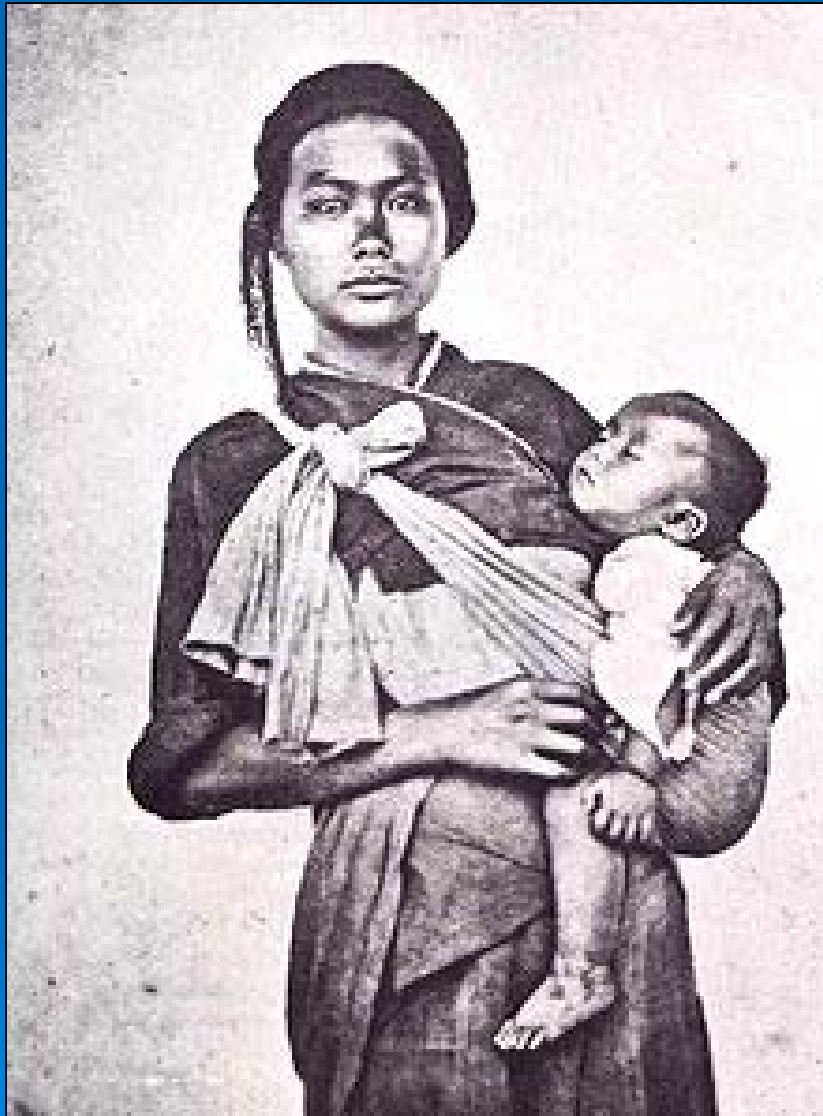


Tahiti 1769 from the James Cook Expedition



7000 B.C. Pigs/Chickens domesticated SE Asia
4300 B.C. Farmers migrate to Taiwan
3300 B.C. Arrival in Philippines
1500 B.C. Arrival in East Melanesia with Lapita pottery



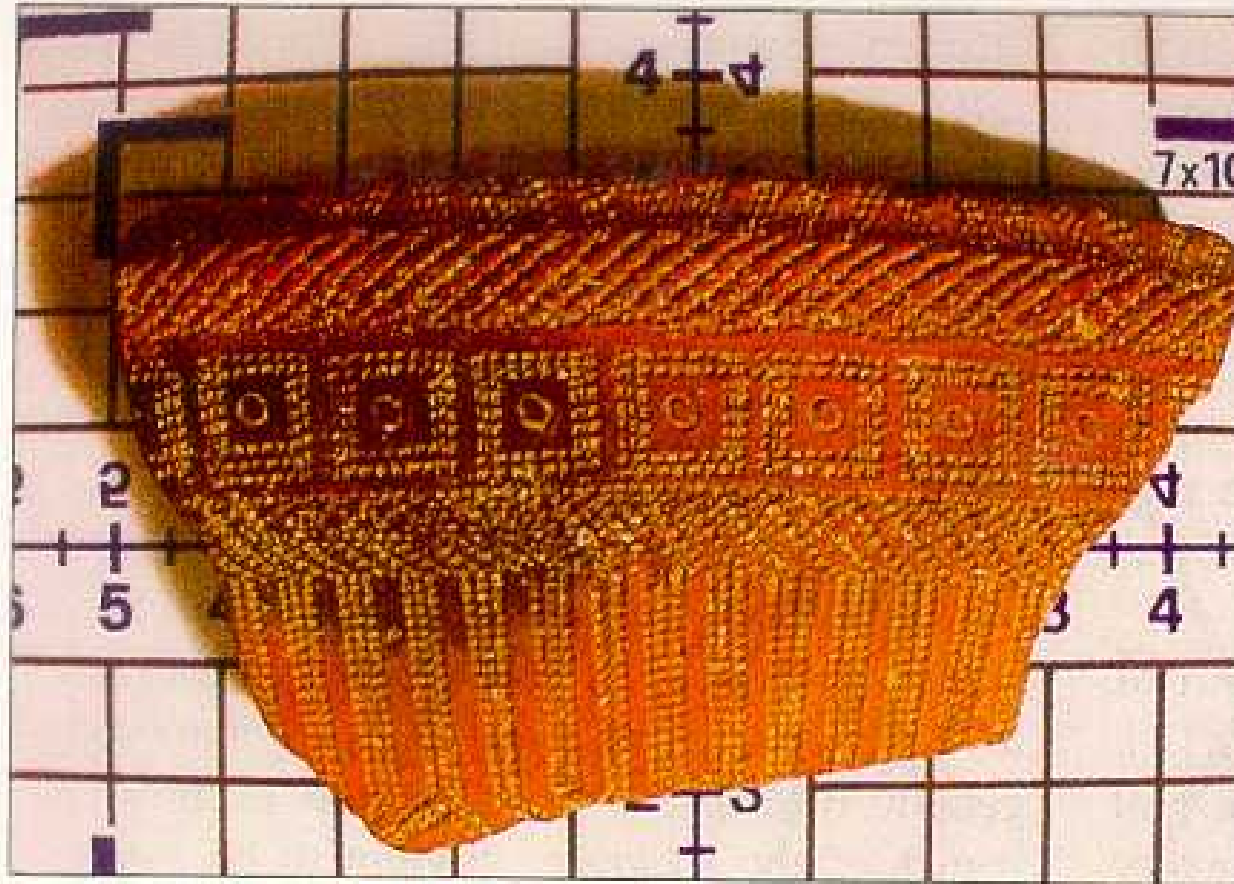


**Indigenous people
of Taiwan**

7000 B.C. Pigs/Chickens domesticated SE Asia
4300 B.C. Farmers migrate to Taiwan
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1500 B.C. Arrival in East Melanesia with Lapita pottery



Lapita pottery Melanesia 3500 years B.P.



Parade of pots. Distinctive Lapita pots mark the watery route to Polynesia.

Distribution of Lapita Pottery



Diffusion:
The spread of cultural traits via direct contact.

Diffusion

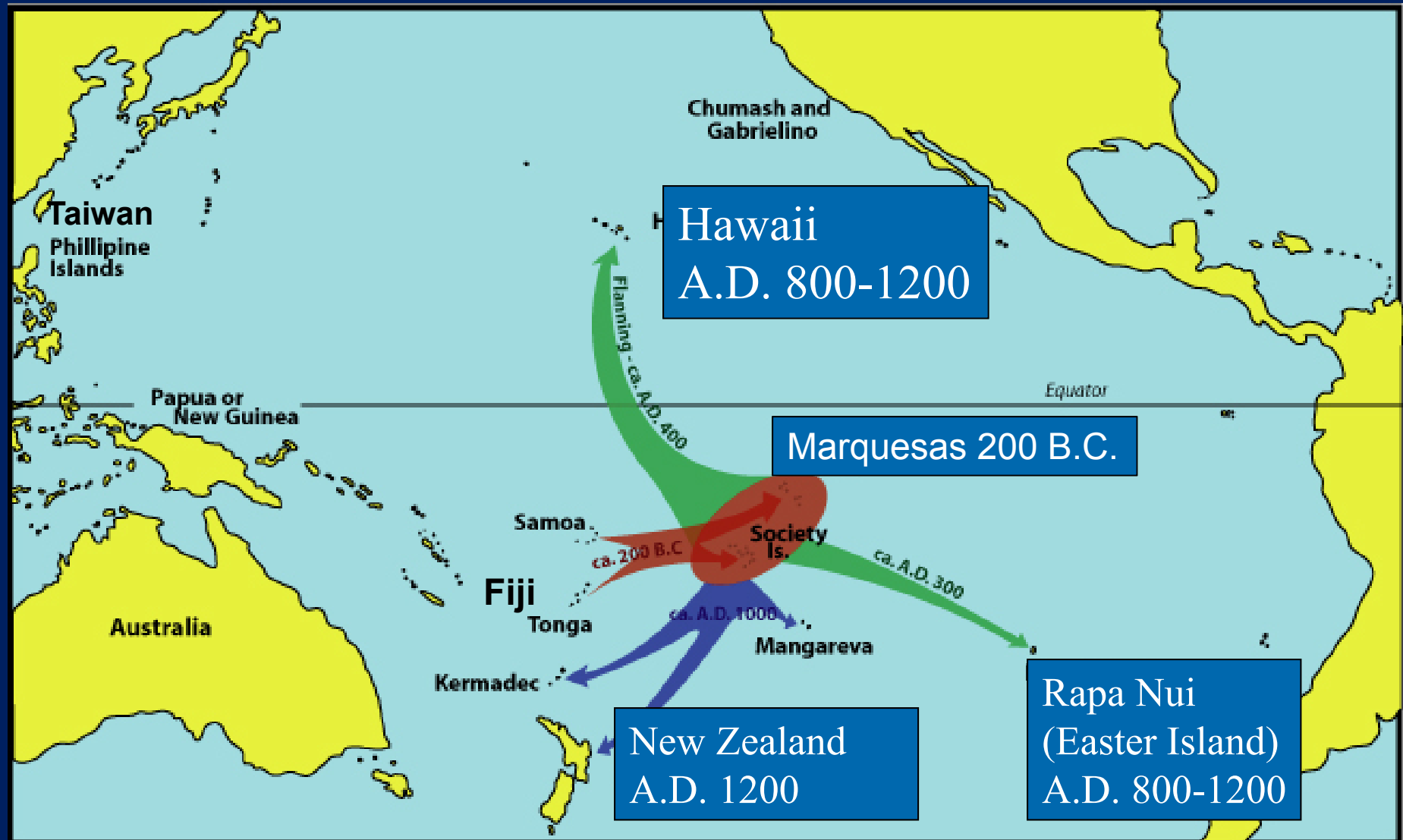
Versus

Independent Invention

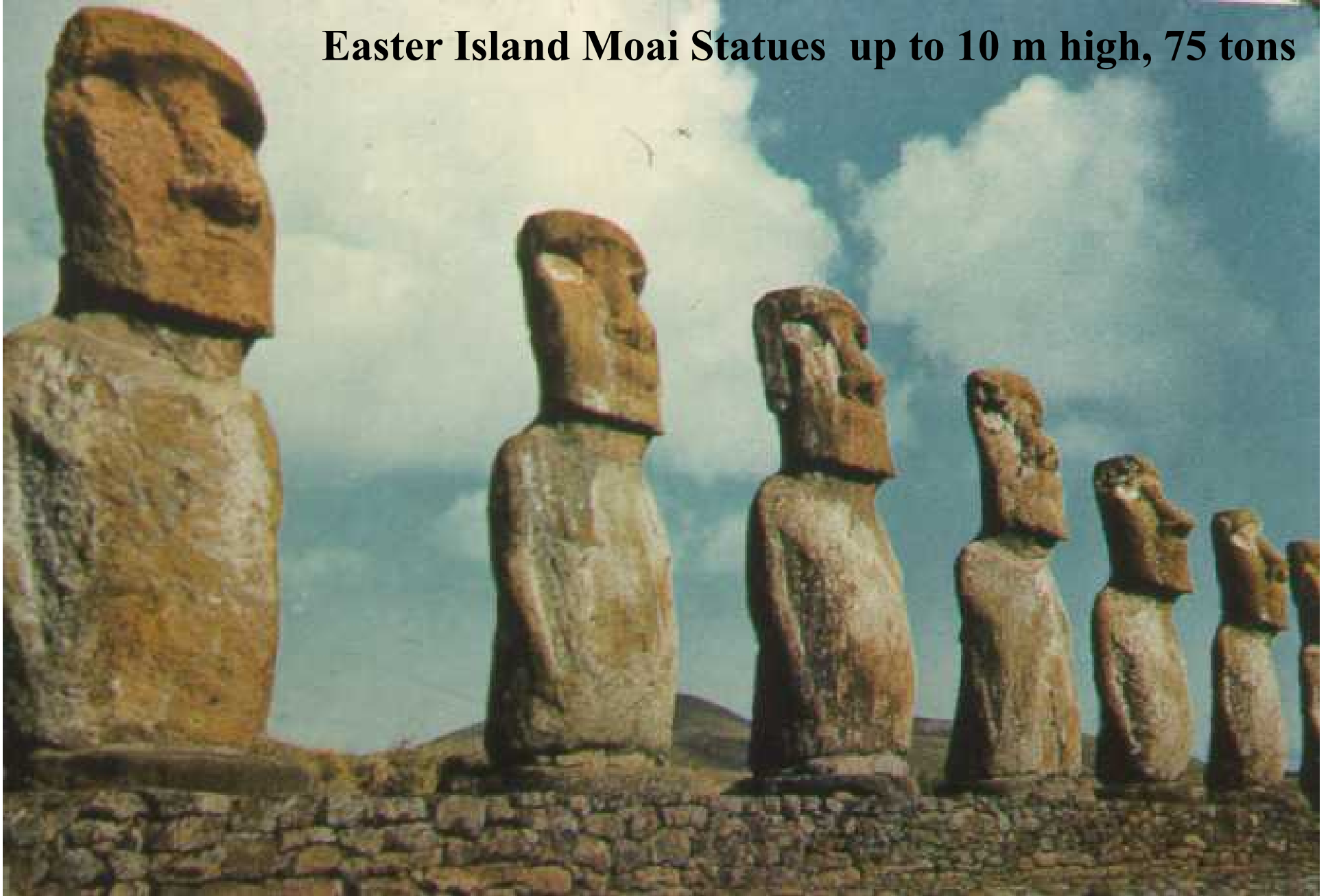
7000 B.C. Pigs/Chickens domesticated SE Asia
4300 B.C. Farmers migrate to Taiwan
3300 B.C. Arrival in Philippines
1500 B.C. Arrival in East Melanesia with Lapita pottery
200 B.C. Settlement of Marquesas



Polynesians in the Remote Pacific



Easter Island Moai Statues up to 10 m high, 75 tons

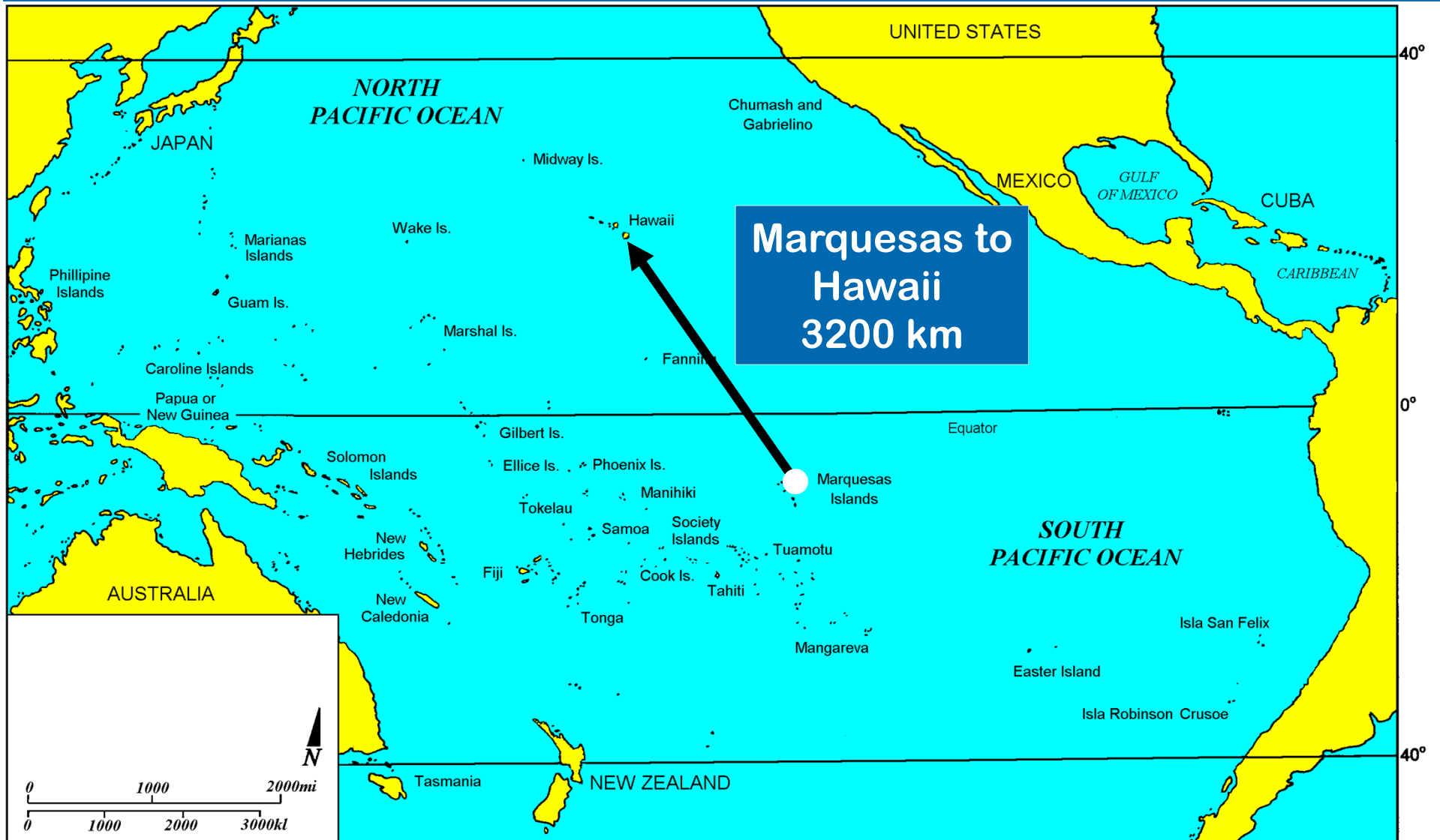


Post Colonization Rapanui

- **Pollen Studies Clearly Show Deforestation**
 - 21 species of trees went extinct
- **First Contact-Dutch 1722- Estimated population 2000-3000**
- **No sailing craft, little boat building**
- **Archaeologists suggest population had been much higher previously**
 - Statues standing
- **Captain Cook -1774-Some statues toppled, population smaller**

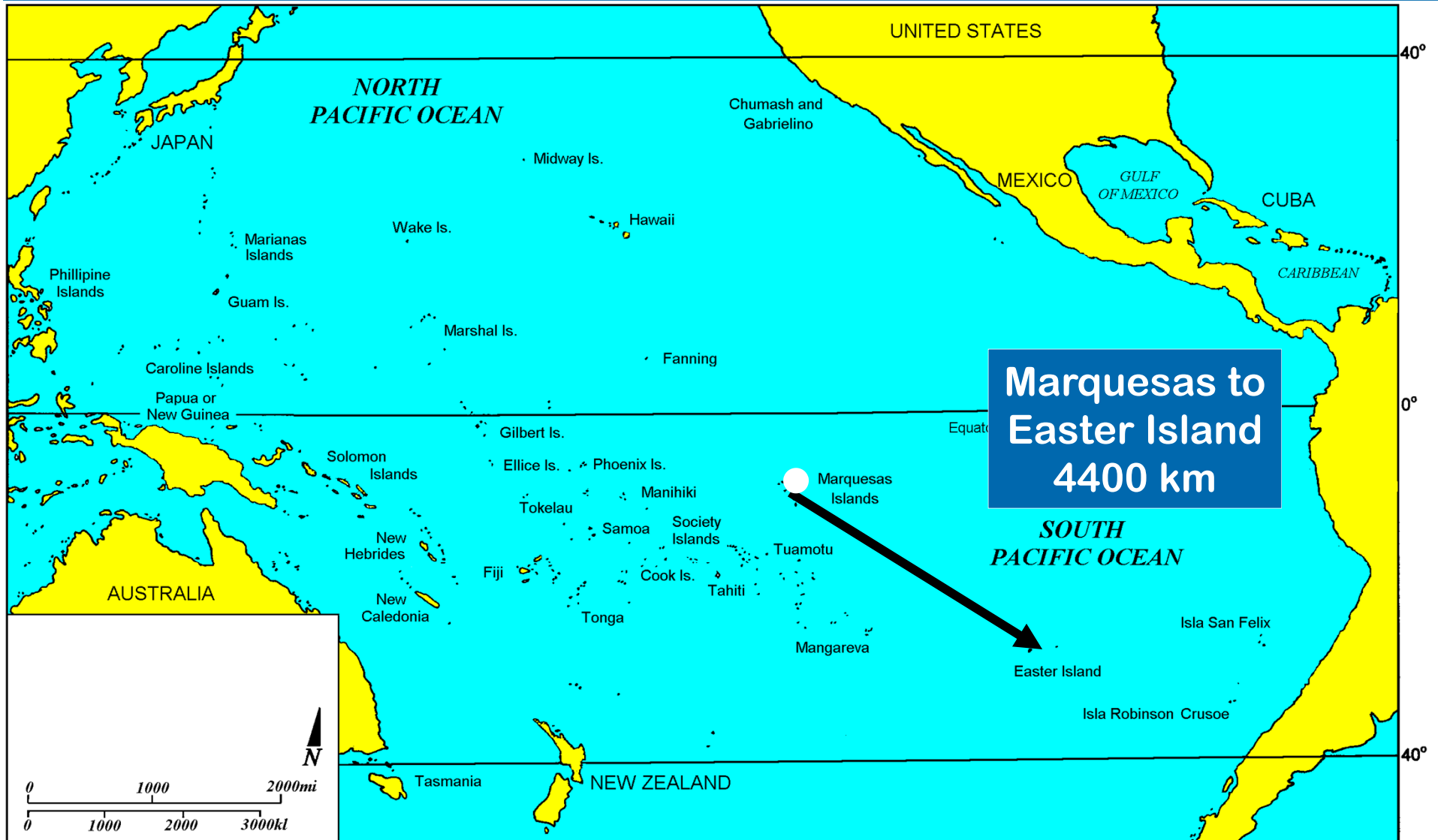


POLYNESIAN VOYAGING

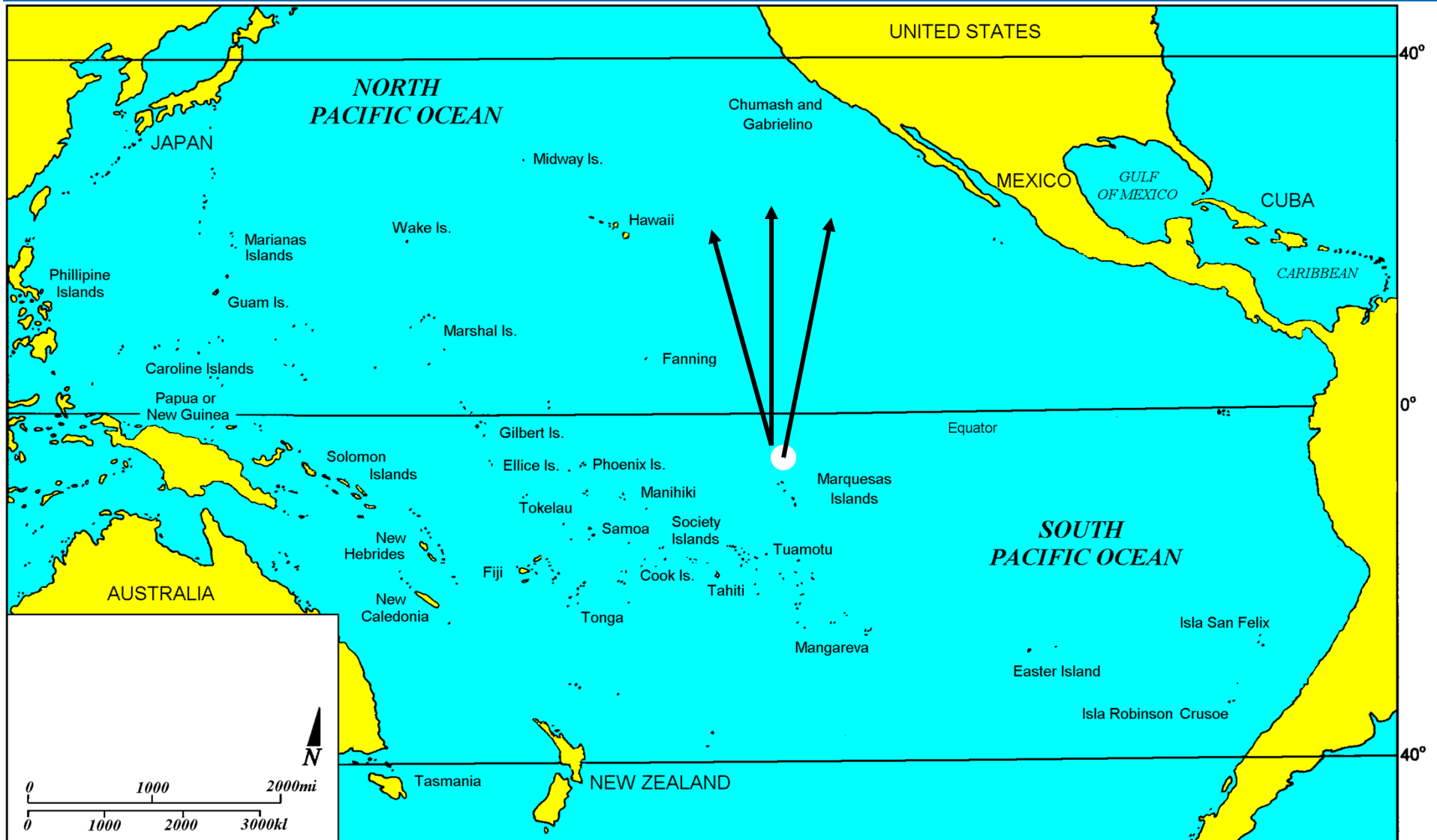


POLYNESIAN VOYAGING

1950s- Prevailing Explanation: Andrew Sharp- Drifting with the Prevailing Winds and Currents



POLYNESIAN VOYAGING: A Program of intentional exploration? (Geoff Irwin)



Hokuleia: Replicated Polynesian Sailing Vessel
Work by Ben Finney



Pacific Voyaging

Marquesas - Hawaii 3200 km

Marquesas - Easter Island 4040 km

Marquesas - Hawaii and Return 6400 km

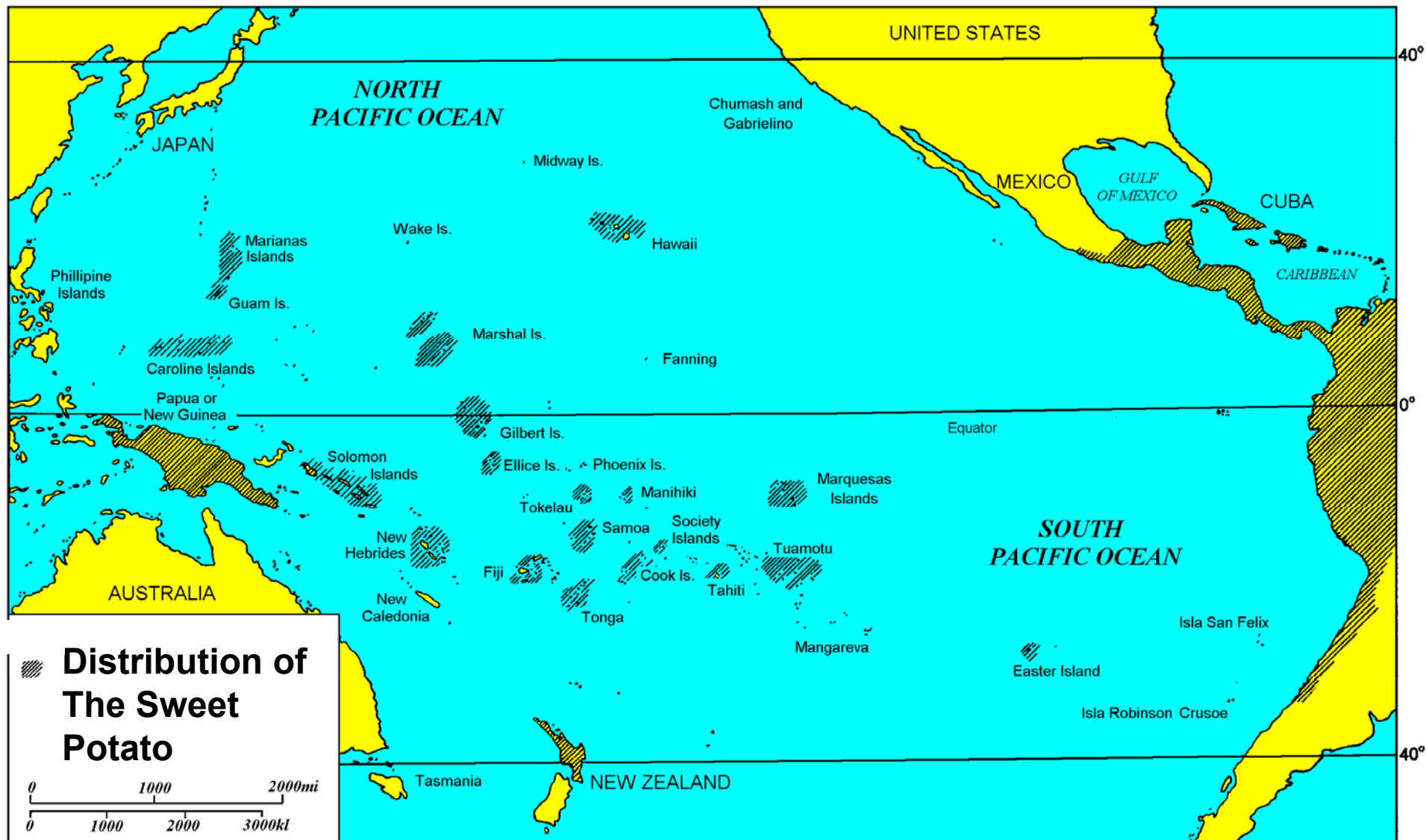


Why Not the New World?

Pacific Voyaging

Marquesas - Hawaii	3200 km
Marquesas - Easter Island	4040 km
Marquesas - Hawaii and Return	6400 km
Hawaii - Santa Barbara Channel	3360 km
Easter Island – South America	3160 km

Distribution of the Sweet Potato

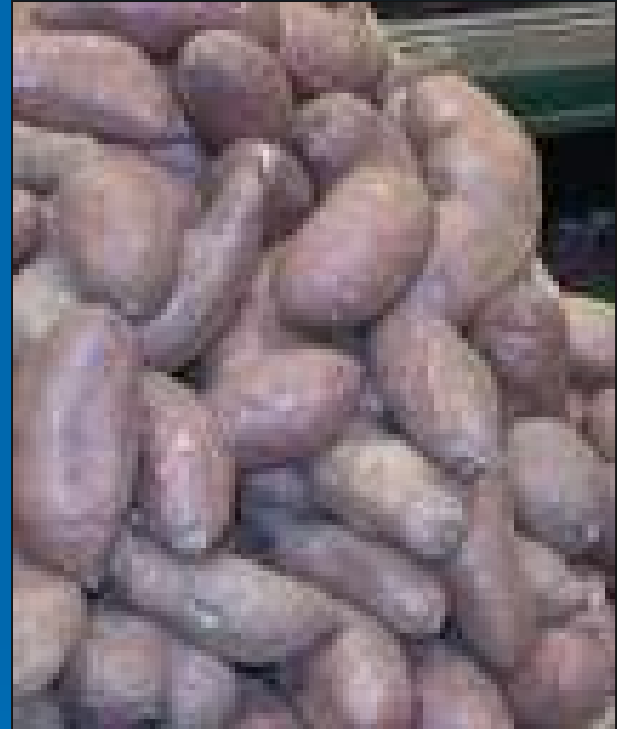


**Facts about the sweet potato
(*Ipomoea batatas*):**

Domesticated in New World

**Cultivated throughout Polynesia
Historically**

**Recovered archaeologically 1990s
By Patrick Kirch- dating AD 1000**



Linguistic Evidence:

***kumara* = ‘sweet potato’ in South
America and Polynesia (including
New Zealand).**

**Adelaar and Muysken (2004:41) note that
“[*kumara*] constitutes near proof of
incidental contact between inhabitants
of the Andean region and the South
Pacific.”**



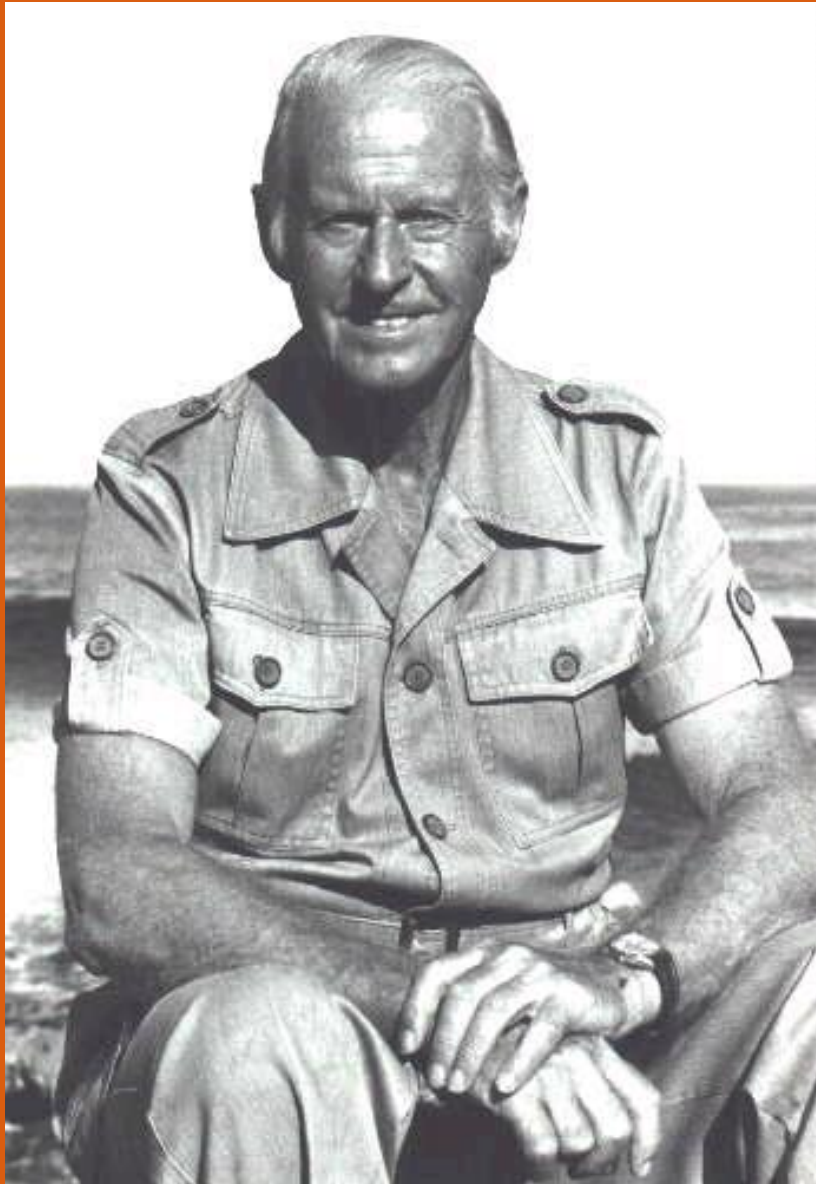
Conveyance of the Sweet Potato

Two-Way Voyaging
by Polynesians

or

One Way drifting
by South Americans?
Thor Heyerdahl 1950s





a. Early Proponent-

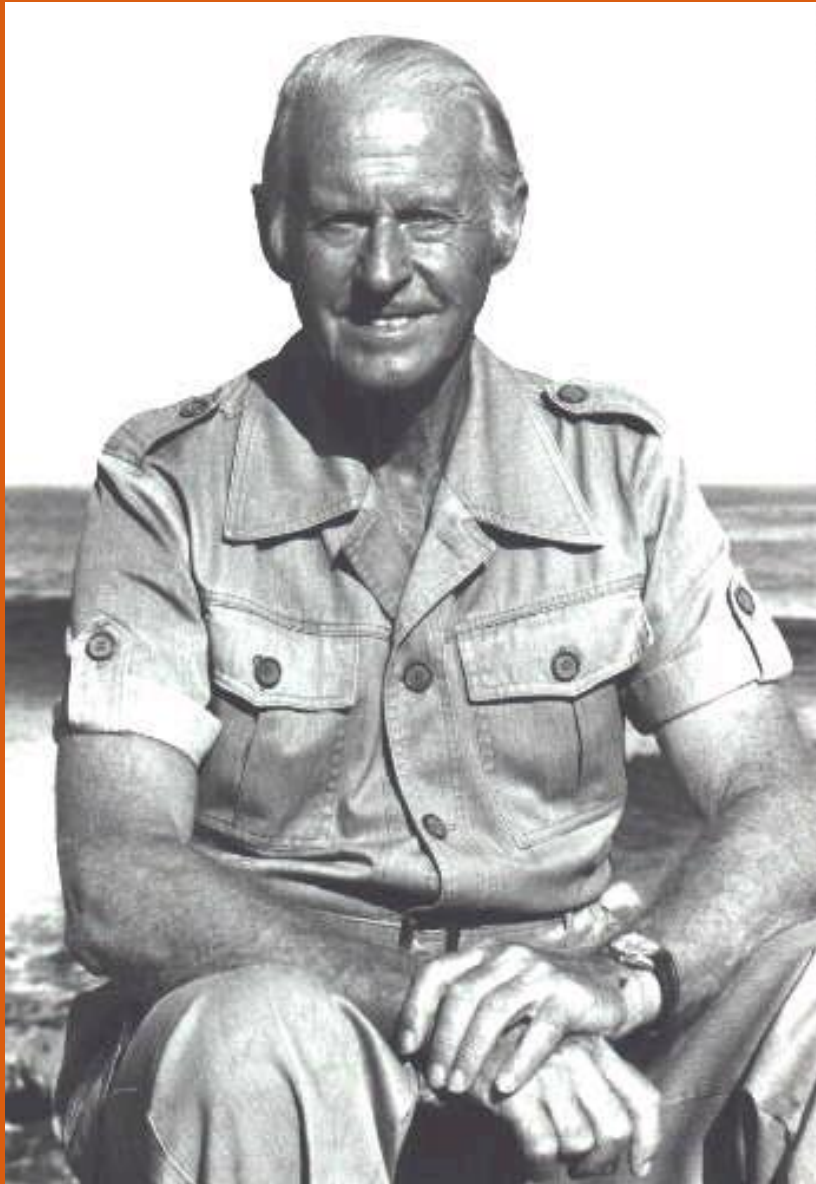
Thor Heyerdahl

Norwegian Adventurer/Writer

Sailed the “Kon Tiki” from

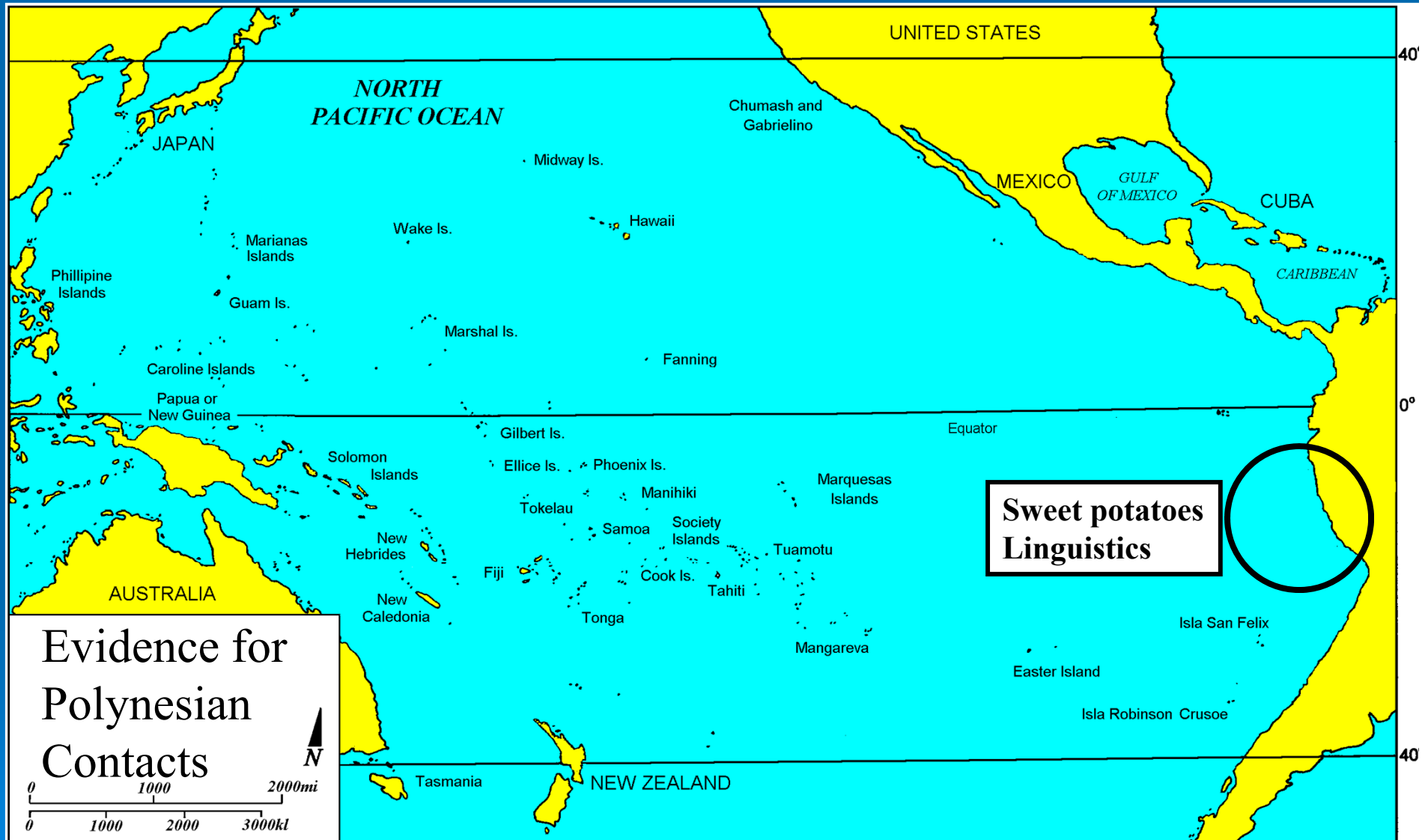
South America

to Polynesia in 1947

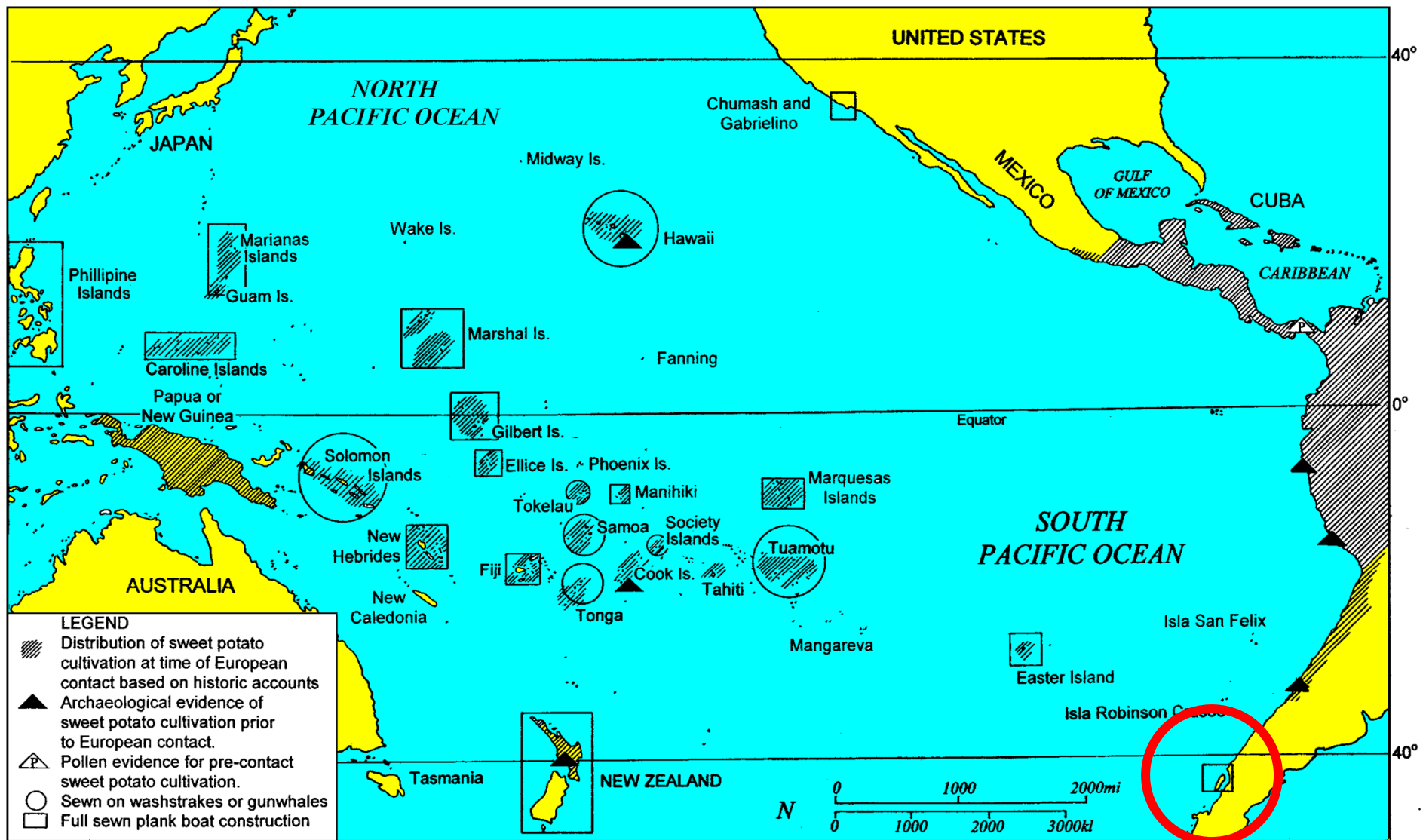


**Thor Heyerdahl's Voyaging:
An Early Example of
"Experimental Archaeology"**

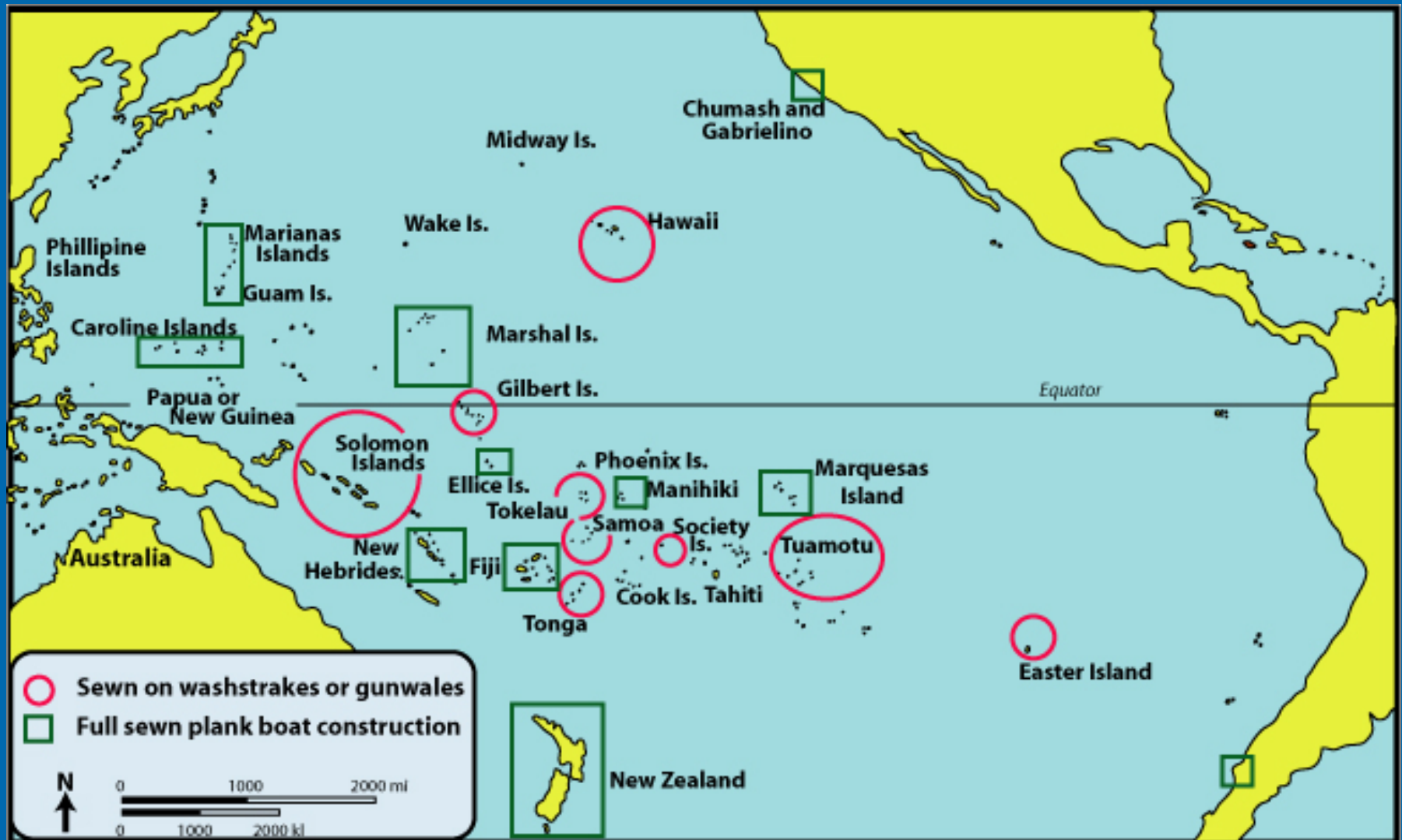
b. Northern South America:



Southern South America: Contact with the Alakaluf, Chono, and Mapuche in Chile?



Sewn Plank Boat Technology in the Pacific





Bishop Museum

PLANK FISHING CANOES FROM TATAKOTO, TUAMOTU
Note inner lagoon and coconut-covered islets

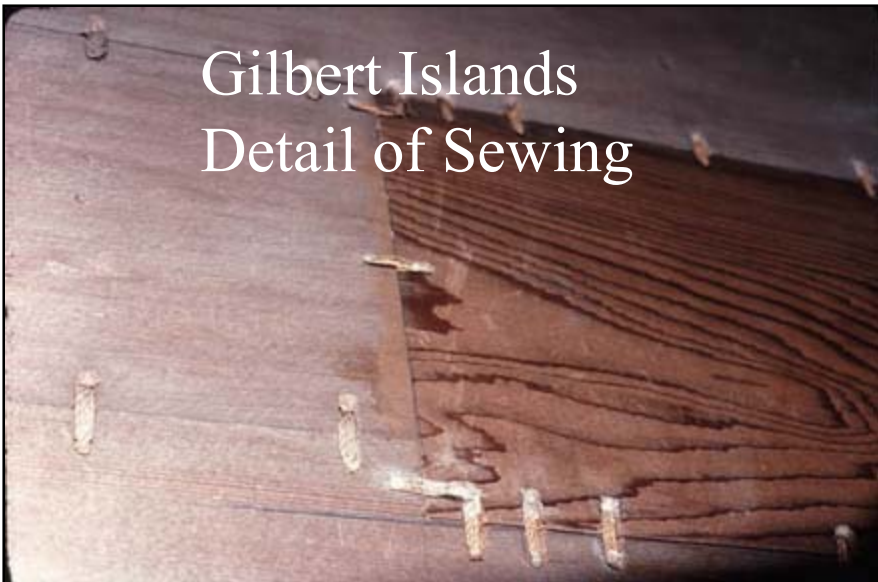
Gilbert Islands
sewn-plank
sailing canoe



Chilean sewn plank canoe



Gilbert Islands
Detail of Sewing



‘canoe’

- Hawaiian kialoa (< kia + loa
 ‘long’)
 ‘a long, light, swift canoe’
 (<Pukui and Elbert)

To Get to South America ...and Other Answers to the Question Why Did the Chicken Cross the Sea?

Alice Storey

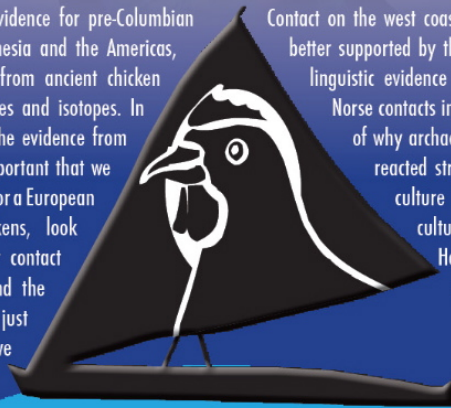
Department of Archaeology
and Palaeoanthropology
University of New England,
Armidale NSW



Presentation

Sponsored by the Cal Poly,
San Luis Obispo,
Social Sciences
Department

A discussion of the evidence for pre-Columbian contact between Polynesia and the Americas, focused on evidence from ancient chicken DNA, radiocarbon dates and isotopes. In order to understand the evidence from chicken bones it is important that we reassess the evidence for a European introduction of chickens, look at other evidence for contact between Polynesia and the Americas and evaluate just how much influence we would expect contact to have.



Contact on the west coast of the Americas is probably better supported by the archaeological, genetic and linguistic evidence than accepted pre-Columbian Norse contacts in the east. Also, an explanation of why archaeologists in the 1960s and 70s reacted strongly against explanations of culture change which involved cross-cultural contacts and diffusion. However, this paradigm shift may have led us to disregard some important evidence for more ephemeral contacts in prehistory.

Wednesday, April 21, 2010 – 6:30-8 p.m.
Pavilion, Performing Arts Center

Radiocarbon and DNA Evidence for Pre-Columbian Introduction of Polynesian Chickens to Chile

Alice A. Storey, Jose Miguel Ramirez, Daniel Quiroz, David V. Burley, David J. Addison, Richard Walter, Atholl J. Anderson, Terry L. Hunt, J. Stephen Athens, Leon Huynens, and Elizabeth Matisoo-Smith

2007 Proceedings of the National Academy of Sciences



Linguistic support for Chickens in Pre-Contact South America:

Quechua

Hualpa= Chicken



Por medio del presente la saludo y en atención a Atención al correo electrónico enviado por Arqlo. Jerry Doty, donde nos solicita información y una foto de una vasija de nuestro museo con la forma de gallo de la cultura Virú.

Al respecto debo manifestarle lo siguiente:

- La vasija a que hace referencia el Sr. Doty es una que se encuentra en la galería de Desarrollos Regionales vitrina N° 1 que muestran vasijas tanto de la cultura Virú como de la Vicús.
- La descripción de la vasija es la siguiente:

C- 09250; 3/630; 8166

Cultura : Vicús

Botella escultórica ornitomorfa, asa puente cintada, gollete compuesto. Representa un ave de pie, lleva cresta de seis (6) apéndices triangulares, ojos tubulares con orificio central. Tiene lleva 5 orificios a ambos lados de la parte superior de la cabeza. Ala y cola con diseños incisos. El cuerpo presenta decoración pictórica de color blanco diseños de bandas delgadas que encierran puntos y círculos.



En nuestra colección de cerámica tenemos 1,051 especímenes de la cultura Vicus hasta el momento, de esa cantidad sólo se han encontrado cuatro vasijas con representación solicitada:

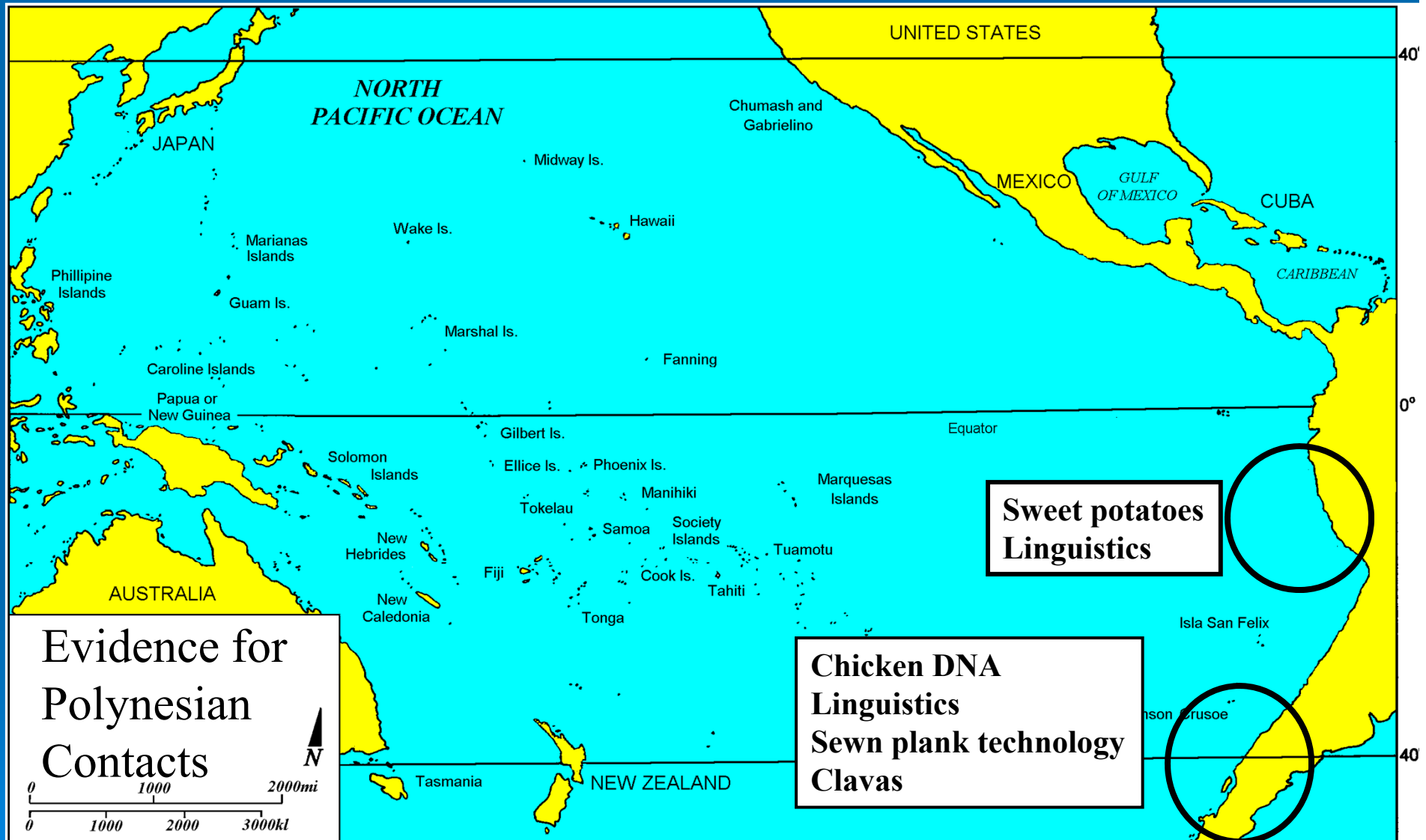
Clavas (From Ramirez and Matisoo-Smith 2008)



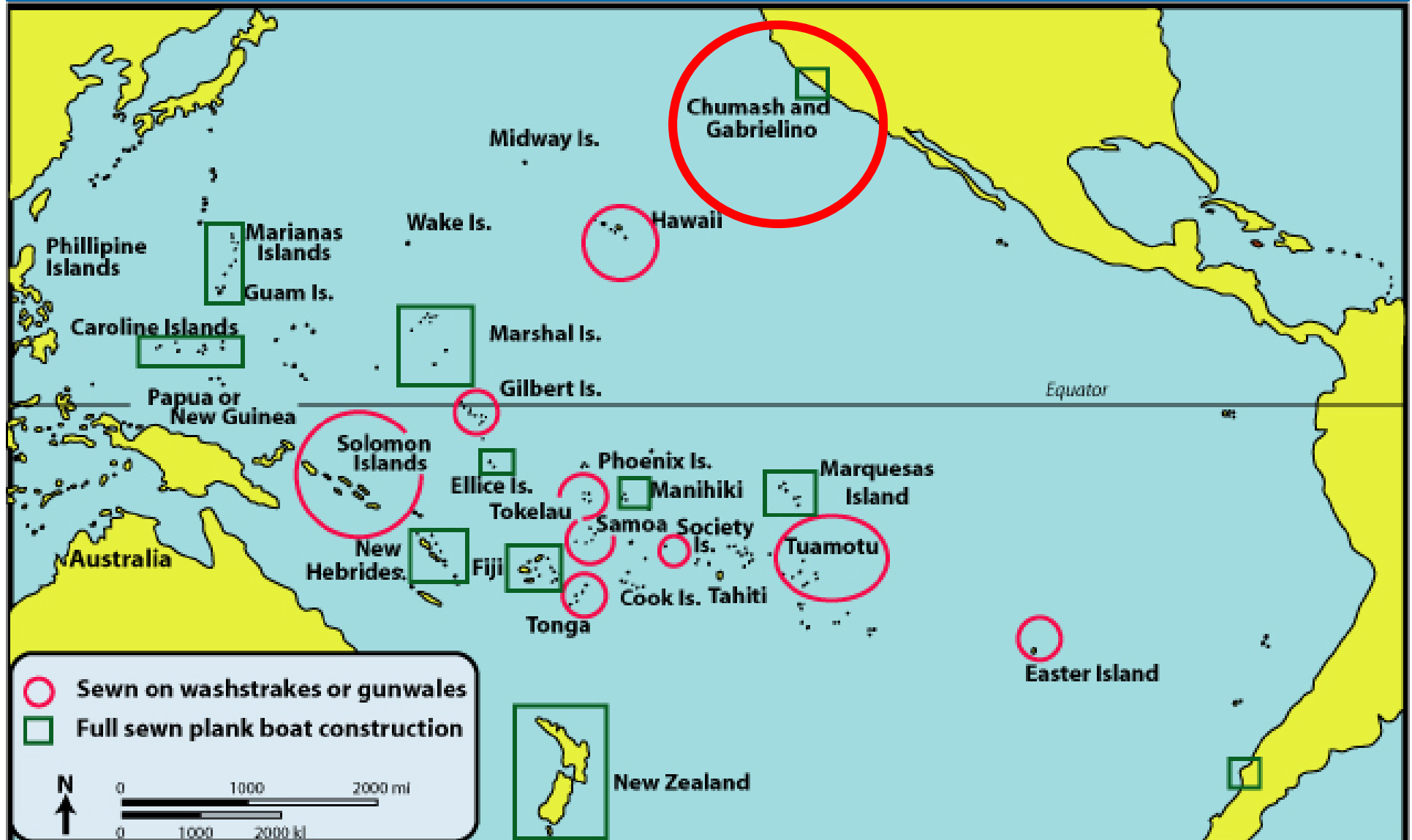
Mapuche-



Chatham Islands



Northern Hemisphere Contact?



Linguistic and Archaeological Evidence for Prehistoric Polynesian Contact with Southern California

By Kathryn A. Klar

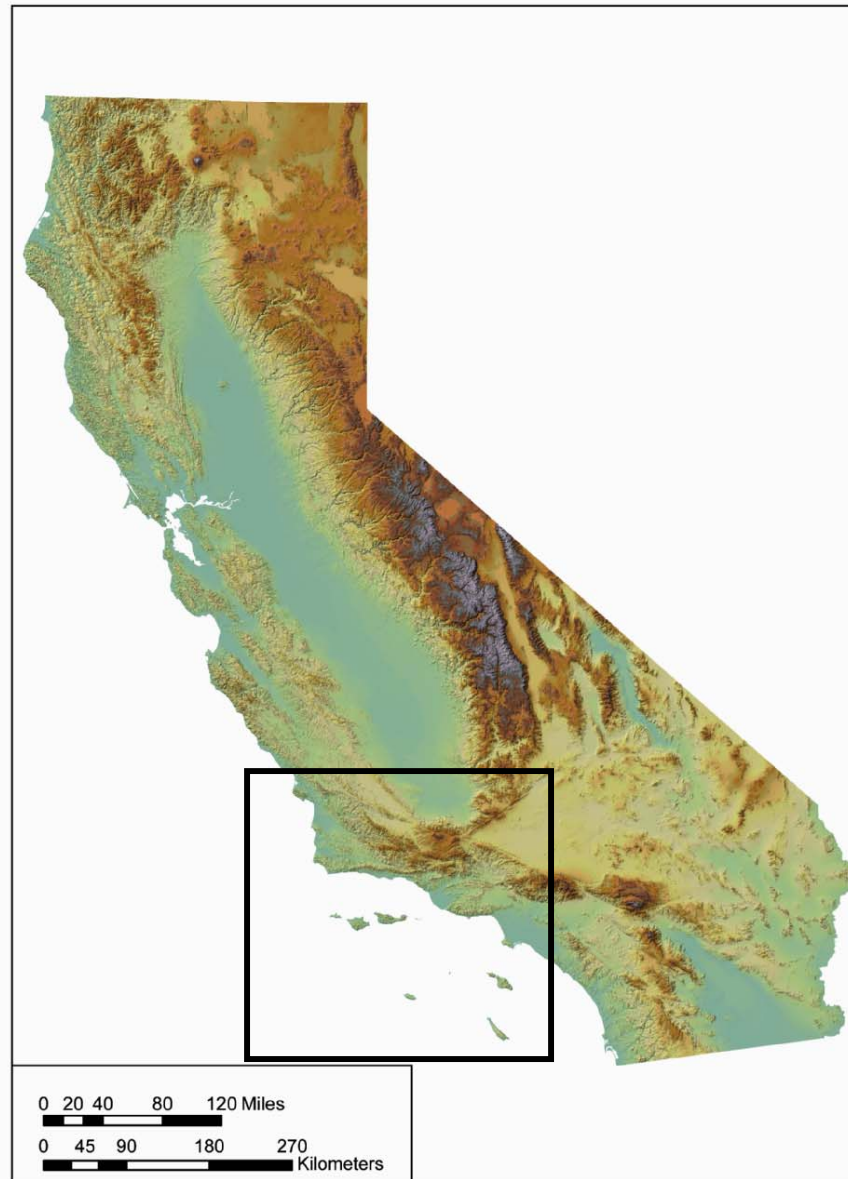
University of California, Berkeley

and Terry L. Jones

**California Polytechnic State University, San
Luis Obispo**

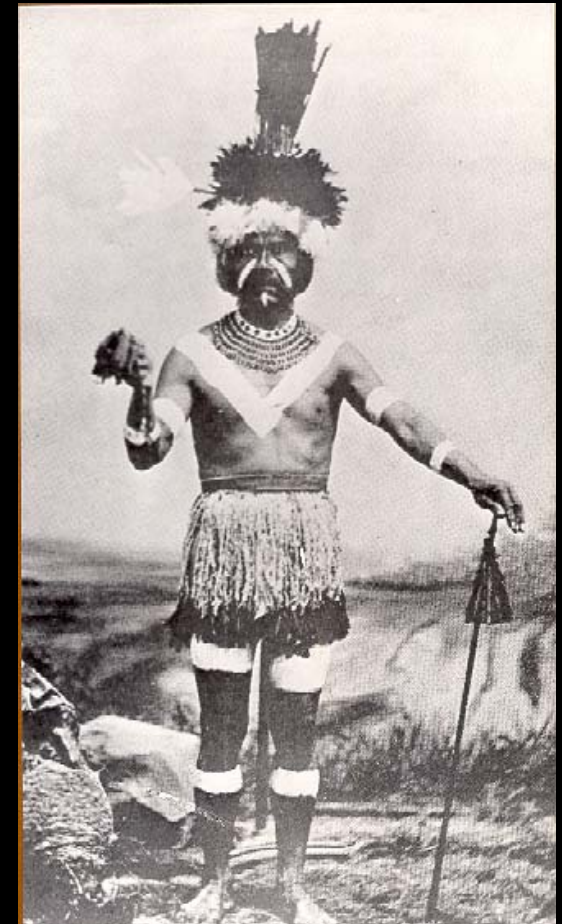


THE SOUTHERN CALIFORNIA COAST

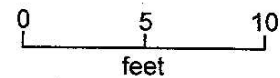
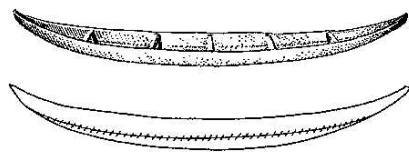




ETHNOGRAPHIC GROUPS OF SOUTH COASTAL CALIFORNIA



**Chumash Shaman
1878**



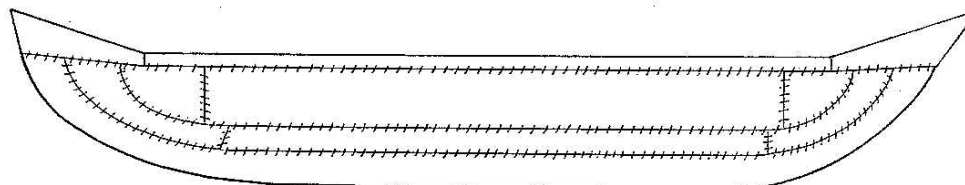
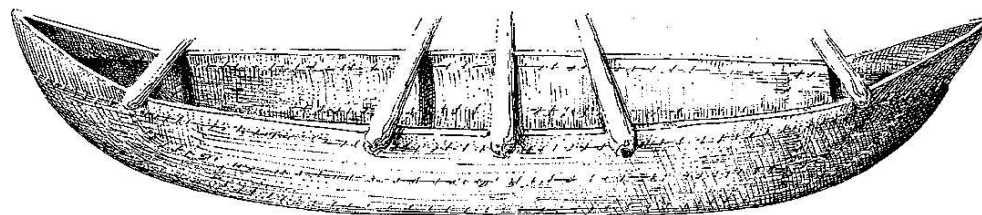
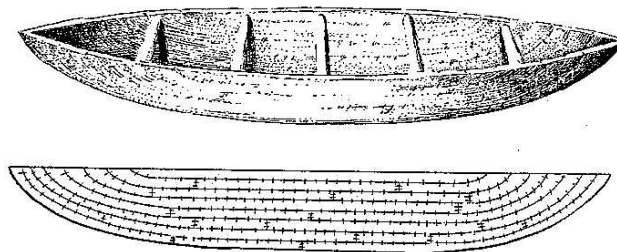
Chilean *dalca*



Chumash *tomol*



Gilbert Island
Fishing Canoe



Gilbert Island Sailing Canoe

Chumash Plank Canoe built for J. P. Harrington in 1912



Modern replica of *tomolo*, Avila Beach, June 2007







“It is not definitely known whether the *tomolo* was strictly a local invention; possibly it was copied from a wrecked outrigger canoe, minus the outrigger.the fact remains that some of the islanders of the South Seas had both shell fishhooks and boats with sides of boards that were necessarily small and short, fashioned from rare driftwood, and the *tomolo* surprisingly resembled the body of the outrigger fishing canoe [of Easter Island].” (Edwin Walker 1952: 61)

Linguistics:

Gabrielino

tiat (sewn plank canoe)

tararyna (boat)

Chumash

Tomolo'o (sewn
plank canoe)

Polynesian

tia (to sew)

talai (to carve or adze wood)

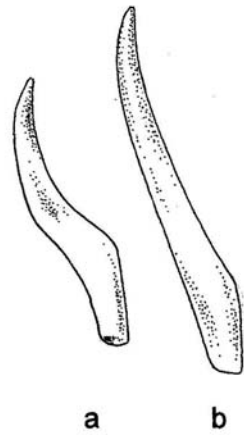
Polynesian

tumurakau (A product of wood)

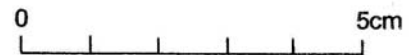
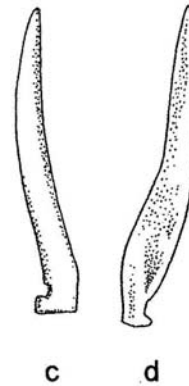
Short-handled adze for making canoe planks by the Chumash









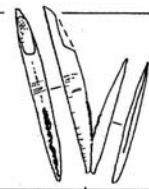
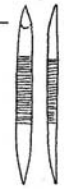
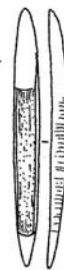

Chumash



Hawaiian



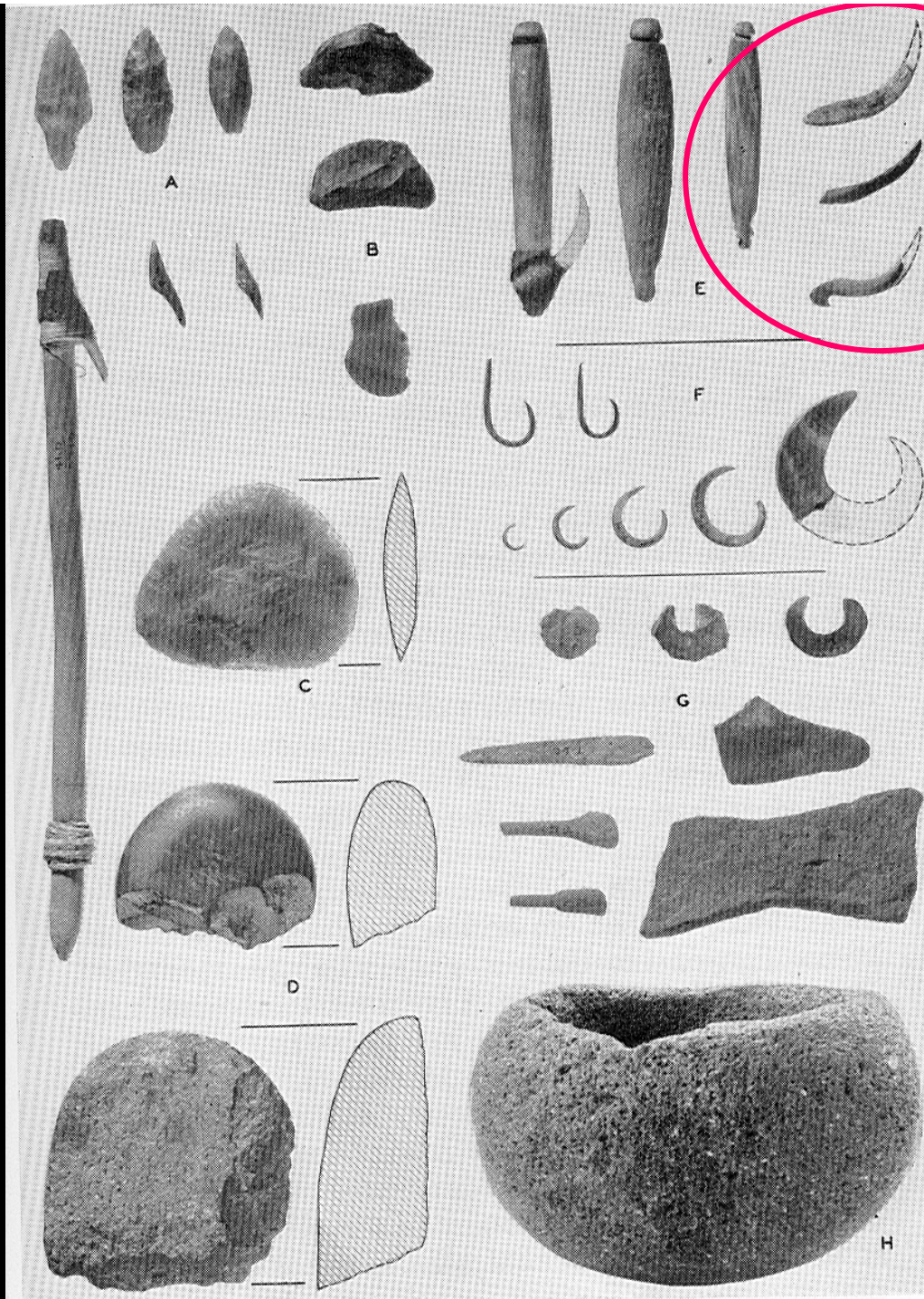
Fishhook Chronology for the Santa Barbara Channel (from King 1982)

SHELL FISHHOOK	COMPOUND BONE FISHHOOK	BONE GORGE	
			L3
			L2
			L1 & M5
			M4
			M3 & M2
			M1
	Unchanged	Unchanged	Ez
			Ey
			Ex
0 5cm			

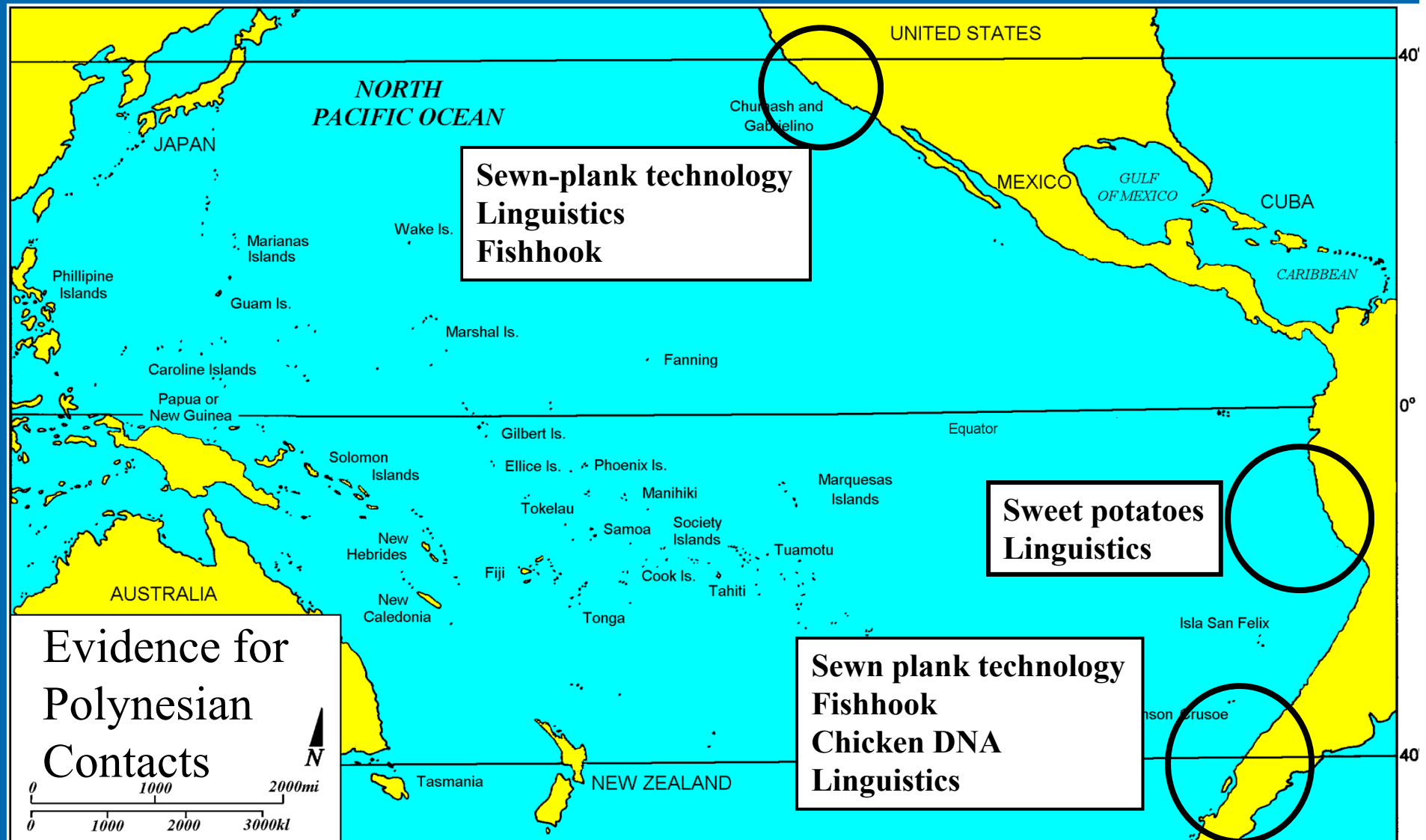
cal A.D. 900

cal A.D. 750

6000 cal B.C.



**Oldest known
coastal culture,
Northern
Chile (circa 1949
From Bennett
and
Bird**



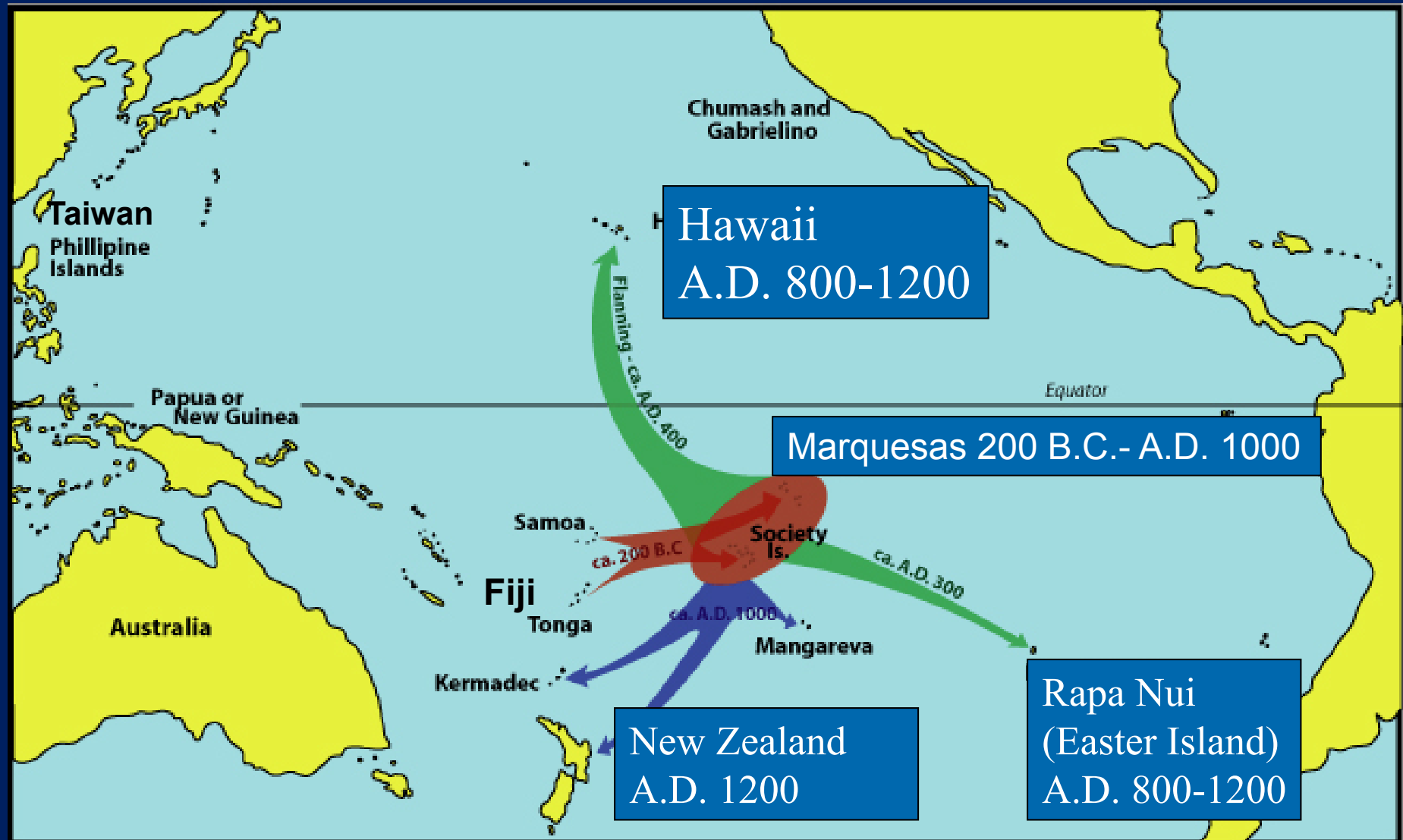
Controversies in the Pacific:

Long Versus the

Short Chronology (Hunt and Lipo)



Polynesians in the Remote Pacific



Polynesians in America: Pre-Columbian Contacts with the New World

Edited by
Terry L. Jones, Alice A. Storey,
Elizabeth A. Matisso-Smith,
and José Miguel Ramírez-Aliaga

Altimira 2011

