

SOS Explorer:

Creating Interpretative Programming with Virtual Reach



MOKUPĀPAPA
DISCOVERY CENTER

Papahānaumokuākea Marine National Monument



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National
Marine Sanctuary
Foundation

DISCOVER WONDER

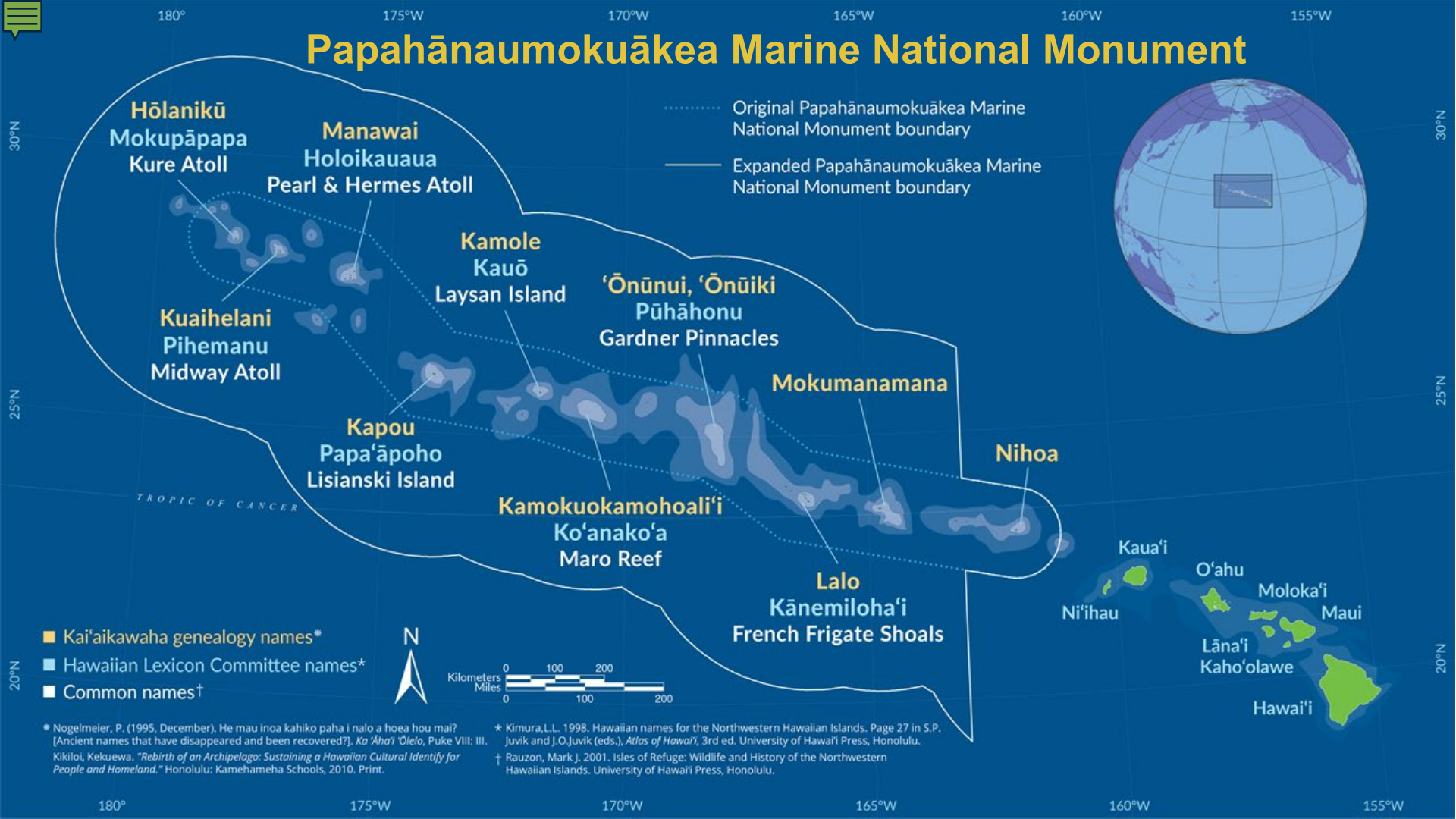
Mokupāpapa Discovery Center
For Papahānaumokuākea Marine National Monument



NATIONAL MARINE SANCTUARY SYSTEM



Papahānaumokuākea Marine National Monument



Hōlanikū
Mokupāpapa
Kure Atoll

Manawai
Holoikauaua
Pearl & Hermes Atoll

Kamole
Kauō
Laysan Island

'Ōnūnui, 'Ōnūiki
Pūhāhonu
Gardner Pinnacles

Kuaihelani
Pihemanu
Midway Atoll

Kapou
Papa'āpoho
Lisianski Island

Mokumanamana

Nihoa

Kamokuokamohoali'i
Ko'anako'a
Maro Reef

Lalo
Kānemiloha'i
French Frigate Shoals

Ni'i'hau

Kaua'i

O'ahu

Moloka'i

Maui

Lāna'i
Kaho'olawe

Hawai'i

- Kai'aikawaha genealogy names*
- Hawaiian Lexicon Committee names*
- Common names†

* Nogelmeier, P. (1995, December). He mau inoa kahiko paha i nalo a hōea hou mai? [Ancient names that have disappeared and been recovered?]. *Ka 'Āha'i 'Ōlelo*, Puke VIII: III. Kikilo'i, Kekuewa. "Rebirth of an Archipelago: Sustaining a Hawaiian Cultural Identity for People and Homeland." Honolulu: Kamehameha Schools, 2010. Print.

* Kimura, L.L. 1998. Hawaiian names for the Northwestern Hawaiian Islands. Page 27 in S.P. Juvik and J.O. Juvik (eds.), *Atlas of Hawaii*, 3rd ed. University of Hawai'i Press, Honolulu.

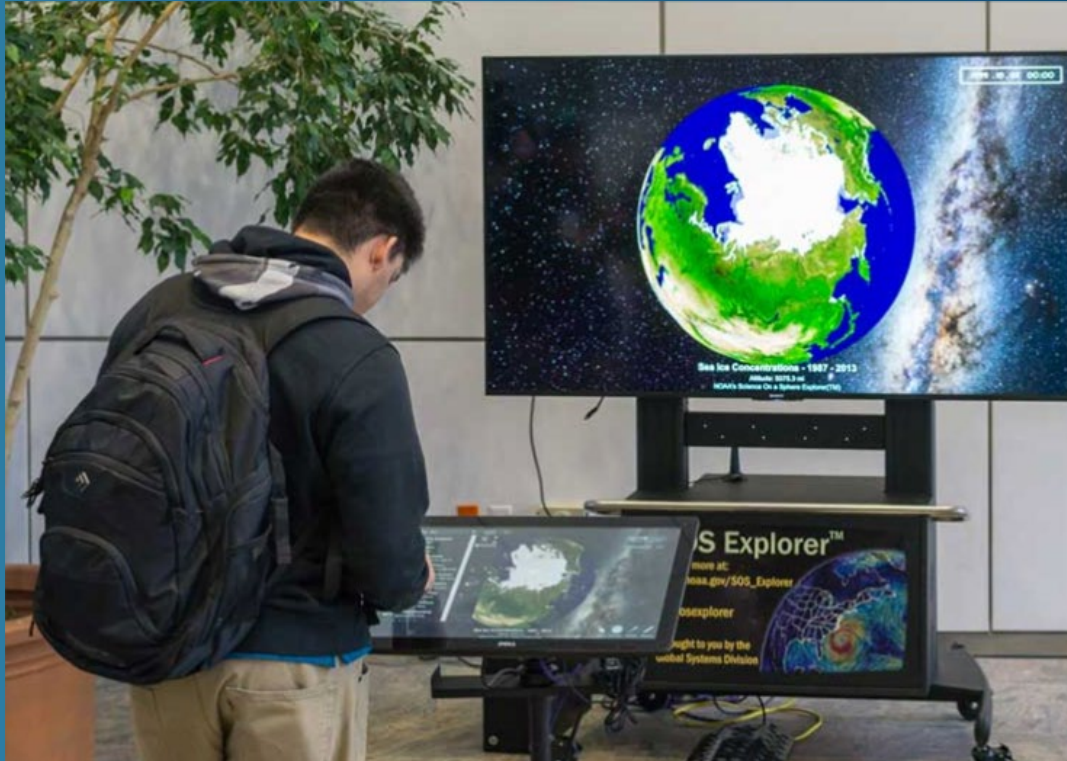
† Rauzon, Mark J. 2001. *Isles of Refuge: Wildlife and History of the Northwestern Hawaiian Islands*. University of Hawai'i Press, Honolulu.





PAHAHĀNAUMOKUĀKEA
Marine National Monument

A World Heritage Site



Poll: How familiar are you with the SOS Explorer?

- A. Expert, I use it all the time.
- B. Comfortable, I use it occasionally.
- C. Beginner, just getting used to it.
- D. No experience, I'm here out of interest.

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Introduction to Tours

Find video tutorials, Tour Task Reference Guide, Introduction to SOSx Tours, and Introduction to Tour Builder in [Manuals and Tutorials](#).

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Description:

SOSx datasets can often be complex. We invented "Tours" in order to tell a story with datasets and to help our users make tangible, understandable connections between the animations and their lives or to simply play a list of datasets in a specified order while your exhibit is idle (Kiosk Timeout Tour).

Content

0001_06_06 12:00

Playing
Playback Speed (FPS) 30 ▼

First, always read the legend to understand what the colors in the graphic mean. For example, what does dark red show here?

- a) Salt content is high.
- b) The ocean is warm there.
- c) Salt content is low.
- d) The ocean is evil.

A B C D

Practical Salinity Units

20 38

Sea Surface Salinity
Altitude: 5530.3 mi
NOAA's SOS Explorer™

Weather Lesson Be a Data Expert Volcano Facts Help 2D/3D Overlays Analyze Measure View

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The screenshot shows the TourBuilder software interface. At the top, there are menu options: File, Edit, Tools, and Help. Below this is a 'Tour Tasks' section with tabs for Camera, Dataset, Environment, Flow, Media, Resources, and User Interface. The main area displays a 'Main Tour Timeline: The Life Cycle of a Hawaiian Island' with five tasks, each labeled 'Load Tour (Editable Copy)'. Below this is a 'Sub Tour Timeline: Hawaii_Intro' with 15 tasks, including Text Box, Stars, Pause Seconds, Hide Text Box, Earth, Day/Night Lighting, Clouds, Fly To (highlighted), Text Box, Pause Seconds, Hide Text Box, Text Box, Pause Seconds, Fly To, and Hide Text Box. At the bottom, there is a 'Fly To (Task 8)' configuration panel with a table of attributes and a text box for instructions.

Attribute	Type	Value
Latitude	Decimal Number	21.3
Longitude	Decimal Number	-158.7
Altitude In Miles	Decimal Number	700
Animated	True/False	True

Fly the camera to the location given by latitude, longitude, and altitude in miles. If 'animated' is true, the fly to takes a few seconds as the Earth appears to rotate. If 'animated' is false, the camera moves instantaneously to the given coordinates. For example, to fly to Boulder Colorado at altitude 500 miles:
lat: 40.015, lon: -105.27, altmi: 500
Longitudes west of Greenwich are negative. For example, -105.27 for Boulder while the longitude of Beijing (east of Greenwich) is 116.41. Minimum altitude is 50 miles.

Poll: How familiar are you with the Tour Builder Software?

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- C. Beginner, just getting used to it.
- D. No experience, I'm here out of interest.

A large background image of the Earth from space at night, showing the Americas and city lights. The text is overlaid on a dark horizontal band across the center.

THE LIFE CYCLE OF A HAWAIIAN ISLAND





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Ideas for going virtual...

- Screen recording: Use your Tour as a base for an online product/lesson.
- Share your screen: Present from the SOS Exhibit computer to classes/groups.
- Impress the SOS Team: Get your tour uploaded onto all Explorer platforms.
- Other ideas? JamBoard



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Jamboard Session-Sticky Notes

- For those with Tour Builder experience, what features do you like best for creating an engaging story? What has worked for you?
- For those without Tour Builder experience, what did you see from my tour that felt most engaging? What would you want to see?

