



Pacific Island Network
PACN

Inventory & Monitoring
National Park Service
U.S. Department of Interior



Pacific Island National Parks

QUIZ BOOK



NAME THAT PACN PARK

The Pacific Island Network is comprised of 11 national parks, national historical parks, a national historic site, a national historic trail, and national memorials. Important features of seven of these park units are pictured below. Can you identify the park units?

1.



2.



3.



4.



5.



6.



7.



FLESH TO FEATHERS

Hawaii's endemic forest birds are among the Nation's most threatened and endangered animals. Can you match up the hatchlings on the left with the adults on the right?

1.



A.



2.



B.



3.



C.



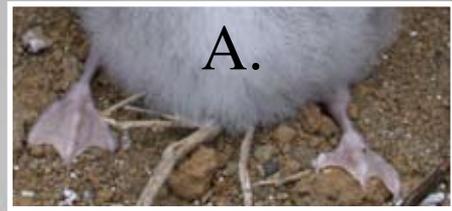
4.



D.



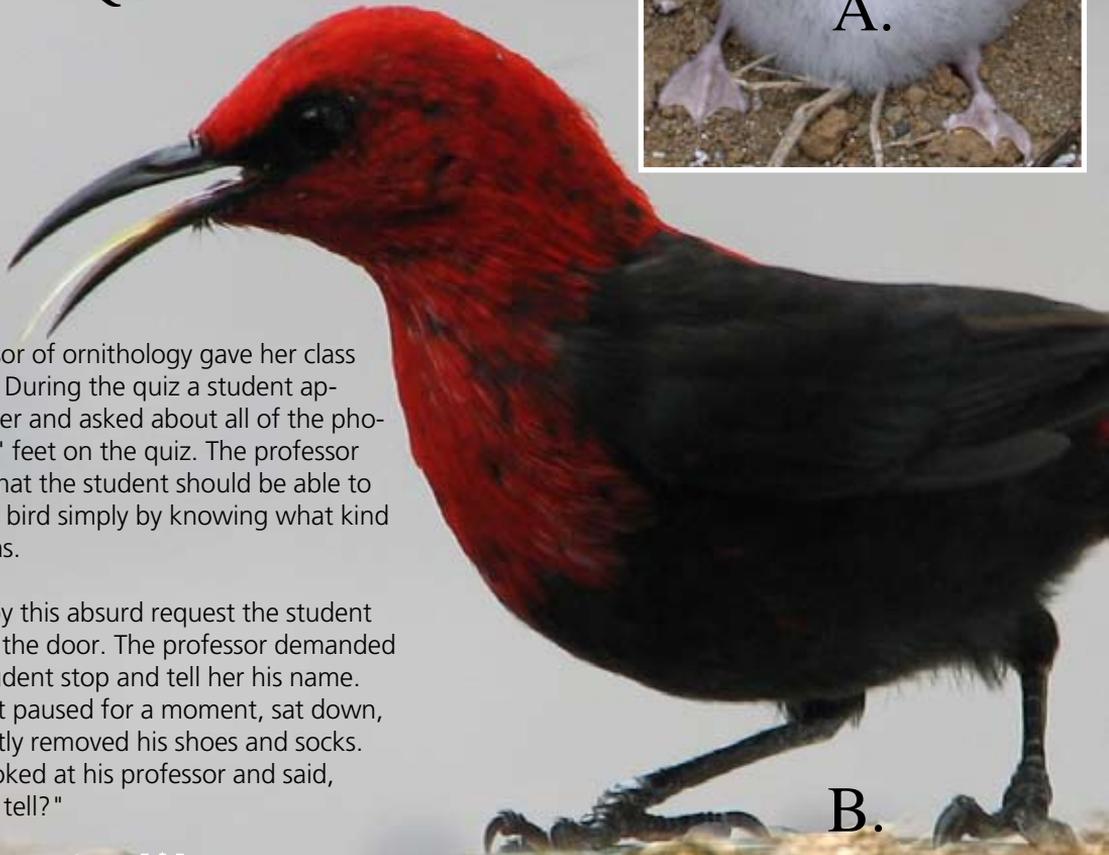
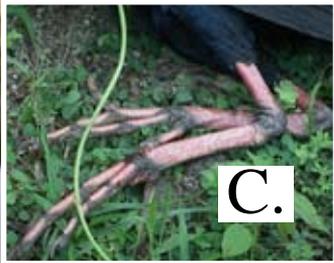
THAT IS QUITE A FEET!



The professor of ornithology gave her class a pop quiz. During the quiz a student approached her and asked about all of the photos of birds' feet on the quiz. The professor explained that the student should be able to identify the bird simply by knowing what kind of feet it has.

Outraged by this absurd request the student headed for the door. The professor demanded that the student stop and tell her his name. The student paused for a moment, sat down, and promptly removed his shoes and socks. Then he looked at his professor and said, "Can't you tell?"

Can you get an 'A' on the quiz?



An accurate depiction of historical Hawai‘i. Or is it?

The Inventory and Monitoring Program's landscape dynamics monitoring protocol will track landscape changes over time. Can you identify four items that would not have appeared in Pu‘ukoholā Heiau National Historic Site's landscape during the reign of King Kamehameha I ?



BONUS QUESTIONS (no set answers in back)

Can you identify any other items in this photograph that would not have been part of this landscape 200 years ago?

Can you find plants or items that may have been part of this landscape 200 years ago?

FISH FISHING FOR FISH

There are many predators on the coral reefs.
Below are just a few. Can you identify them
before they identify you?
(Note: not to scale)

1.



2.



3.



4.



6.



5.



Which climatic zones are in Hawai'i Island national parks?

The Big Island of Hawaii lays claim to at least 10 of the 12-14 (under debate) climatic zones in the world. Of those 10 climatic zones, 9 are located in Hawai'i Island national park units.

Can you match the park unit with the correct grouping of climatic zones?

1. Steppe
Savanna

2. Rainforest
Continuously Wet & Warm
Mediterranean Summer Cool
Mediterranean Summer Warm
Periglacial
Tropical Summer Dry

3. Desert
Steppe

4. Rainforest
Savanna
Tropical Summer Dry
Steppe
Desert

5. Rainforest
Savanna

A. Ala Kahakai
National Historic Trail

B. Pu'uuhonua o Hōnauau
National Historical Park

C. Hawai'i Volcanoes
National Park

D. Pu'ukoholā Heiau
National Historic Site

E. Kaloko-Honokōhau
National Historical Park

Bonus Question

Which is the only climatic zone found on Hawai'i Island, but not in a PACN park unit?

A: Tropical Monsoon (found on Hāmākua coast)

ARE YOU A HAWAI'I HERPETOPHILE?

Several species of herpetofauna (reptiles and amphibians) can be found in West Hawai'i national parks. Can you name the species below?

1.



2.



3.



4.



5.



6.



7.



8.

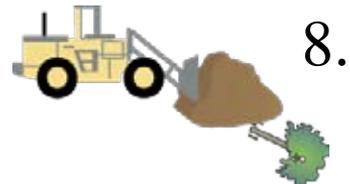
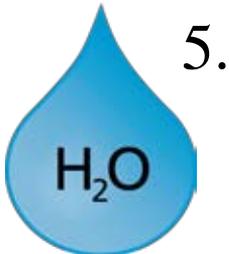


SCINTILLATING SCIENCE OF SYMBOLOGY

Illustrations representing ecological processes or methods can be an effective tool to explain complex scientific ideas. Can you identify which symbol represents which monitoring Vital Sign?

VITAL SIGNS

- A. Early detection of invasive plants
- B. Landscape dynamics
- C. Focal terrestrial plant species / communities
- D. Freshwater animal communities
- E. Seabirds
- F. Climate
- G. Water quality
- H. Landbirds



PACIFIC ISLAND GEOGRAPHY WHIZ QUIZ

Can you name the Pacific islands where national park units are found just by the shape of the islands?

Note: islands are not to scale.



1.



2.



3.



4.



5.



6.



7.

Bonus Question

Which PACN national park unit(s) is on each island?

WHAT IN THE WORLD ARE THEY DOING?

Field work has many shapes and forms. Try to guess what these scientists are looking for.

1.



4.



2.



5.



3.



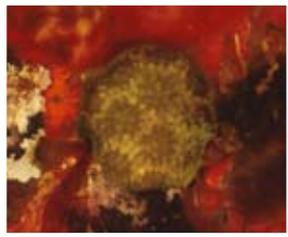
6.



CORAL CORRAL - ***CHALLENGER***

Although they may not seem like animals, countless corals work together over many years to create the beautiful reefs that we see in the ocean surrounding PACN parks. Can you identify the young coral recruits from other marine life? Be careful, some of the pictures below are not corals.

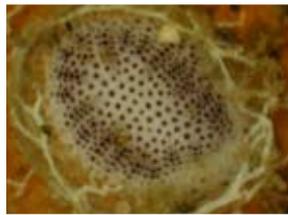
1.



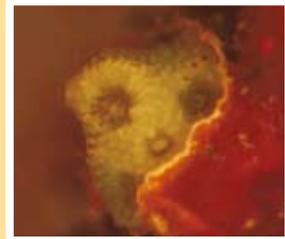
2.



3.



4.



5.



6.



7.



Bonus Question

Can you find the adult coral?

NATIVE OR NON-NATIVE?

Island ecosystems are among the most unique and specialized in the world. Since the beginning of overseas travel humans have changed island ecosystems by introducing flora and fauna from elsewhere. Some introductions are intentional and others are not. Can you find the non-native species to the PACN?

1.



2.



3.



4.



5.



6.



7.



Name that PACN park

- 1- Crater at HALE
- 2- Fishpond wall at KAHO
- 3- Ofu beach at NPSA
- 4- Historic road at PUHO
- 5- Cannon at WAPA
- 6- USS Arizona Memorial at USAR
- 7- View from Kalawao at KALA

Coral corral challenger

- 1- Porites (coral recruit)
- 2- Anthelia
- 3- Bryozoan
- 4- Pocillopora (coral recruit)
- 5- Montipora (adult coral)
- 6- Montipora (coral recruit)
- 7- Foraminiferan

Fish fishing for fish

- 1- zebra shark (*Stegostoma fasciatum*)
- 2- peacock grouper* (*Cephalopholis argus*)
- 3- arc-eye hawkfish (*Paracirrhites arcatus*)
- 4- bluestripe snapper* (*Lutjanus kasmira*)
- 5- bluefin trevally (*Caranx melampygus*)
- 6- giant moray (*Gymnothorax javanicus*)

*indicates species introduced to Hawaii

Native or non-native?

- 1- White-naped fruit bat - Native (Samoa)
- 2- Noni - Native (Marianas)
- 3- Portugeuse man-o-war - Native (throughout)
- 4- 'Ōpae 'ula - Native (Hawaii)
- 5- Chukkar - Non-native (Hawaii)
- 6- Nēnē - Native (Hawaii)
- 7- Starfish stinkhorn - Native (Hawaii)

Flesh to feathers

- 'Alala, 1 - B
Hawai'i Creeper, 2 - A
Puaiohi, 3 - D
Maui Parrotbill, 4 - C

What fieldwork are they conducting?

- 1- Groundwater sampling at AMME
- 2- Measuring of biomass in soil related to erosion at WAPA
- 3- Vascular plant inventory at KALA
- 4- Sedimentation levels on corals at WAPA
- 5- Vascular plant inventory at KALA
- 6- Measuring acoustic seabird activity at NPSA

That is quite a feet

- a. Shearwater chick (*Puffinus pacificus*)
- b. Cardinal honeyeater (*Myzomela chermesina*)
- c. Purple swamphen (*Porphyrio porphyrio*)
- d. Nene (*Nesochen sandvicensis*)

Kamehameha's landscape

1. **Kiawe** (*Prosopis pallida*) originated in South America, and is now commonly found in dry coastal climates in Hawaii. It was first introduced to Hawaii at a churchyard in Honolulu by a French priest in 1828.
2. **Buffel grass** (*Cenchrus ciliaris*). Originating in Africa this grass was first recorded in Hawaii in 1935. This species is known to displace the native pili grass which was historically dominant at Pu'ukoholā.
3. Paved section of a path which is part of the greater Ala Kahakai National Historic Trail system.
4. Modern buoy (congratulations if you got this one. It's hard to see).

Scintillating science of symbology

1-C, 2-E, 3-F, 4-D, 5-G, 6-H, 7-A, 8-B

Pacific island geography whiz quiz

- 1- Tutuila (the largest American Samoa island)
- 2- Guam
- 3- Hawai'i Island, Hawaii
- 4- Maui, Hawaii
- 5- Moloka'i, Hawaii
- 6- Saipan, Commonwealth of the Northern Mariana Islands
- 7- O'ahu, Hawaii

Hawai'i herpetophile

- 1- Stump-Toed Gecko (*Gehyra mutilata*)
- 2- Green Sea Turtle (*Chelonia mydas mydas*)
- 3- Green Anole (*Anolis carolinensis*)
- 4- Gold Dust Day Gecko
(*Phelsuma laticauda laticauda*)
- 5- Jackson's Chameleon
(*Chamaeleo jacksonii xantholophus*)
- 6- House Gecko (*Hemidactylus frenatus*)
- 7- Blind Snake (*Ramphotyphlops delicata*)
- 8- Mourning Gecko (*Lepidodactylus lugubris*)

Hawai'i's climatic zones

1-E, 2-C, 3-D, 4-A, 5-B

To learn more about the
Pacific Island Network
please visit:

[http://science.nature.nps.
gov/im/units/pacn/](http://science.nature.nps.gov/im/units/pacn/)