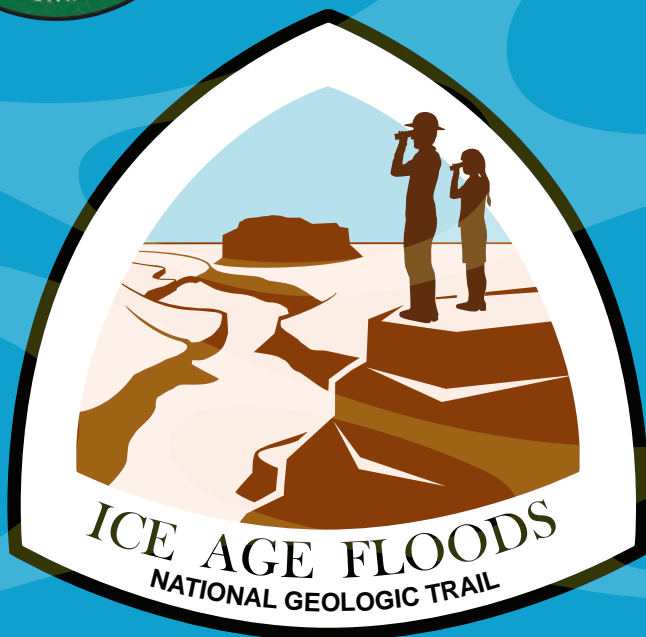


# MEGAFLOOD

# ADVENTURE



## **Junior Ranger** ACTIVITY BOOK



# Who are the **Junior Rangers?**



**EXPLORE,  
LEARN,  
and PROTECT**

That's the Junior Ranger motto! As a Junior Ranger, you can explore the parks, learn about nature and history, and help protect them by learning and following the park rules.

To earn *your* Junior Ranger badge, complete as many pages as you can and visit at least **TWO** sites on the trail. Return your booklet to a Field Ranger, or mail it to the address on the credits page, fill out the certificate, and take your pledge!



# Pledge to **Leave No Trace!**

## ★ **Know Before You Go**

Be prepared! Bring clothes to protect you from the cold, heat or rain. Use maps to show you where you'll be going so you won't get lost. Learn about the areas you visit before you head out.

## ★ **Choose the Right Path**

Stay on the main trail to protect nature and keep from wandering off by yourself. Steer clear of flowers or small trees.

## ★ **Trash Your Trash**

Pack it in. Pack it out. Put litter, even crumbs, in trash cans or carry it home.

## ★ **Leave What You Find**

Leave plants, rocks, and other items as you find them so the next person can enjoy them.

## ★ **Be Careful With Fire**

Use a camp stove for cooking. Use existing fire rings to protect the ground from heat. Keep your fire small. Make sure the fire is *out* and *cold* when you leave.

## ★ **Respect Wildlife**

Observe animals from a distance and never approach, feed or follow them!

## ★ **Be Kind To Other Visitors**

Make sure the fun you have outdoors does not bother anyone else. Listen to nature, and avoid loud noises.

I, \_\_\_\_\_, *pledge to apply* Leave No Trace  
*principles wherever I go!*



# Floods of Lava

Around 15 million years ago, massive floods of lava oozed out of giant cracks in the ground called **fissures**. The lava spread all over the Pacific Northwest through Idaho, Oregon and Washington. When the lava cooled, it formed thick layers of basalt rock. The massive layers make up the bedrock of the landscape you see throughout the trail. As lava cools, it shrinks and cracks. The top of the flow hardens into smooth irregular cliffs, while the bottom hardens into columns. Each layer of columns represents a different lava flow.

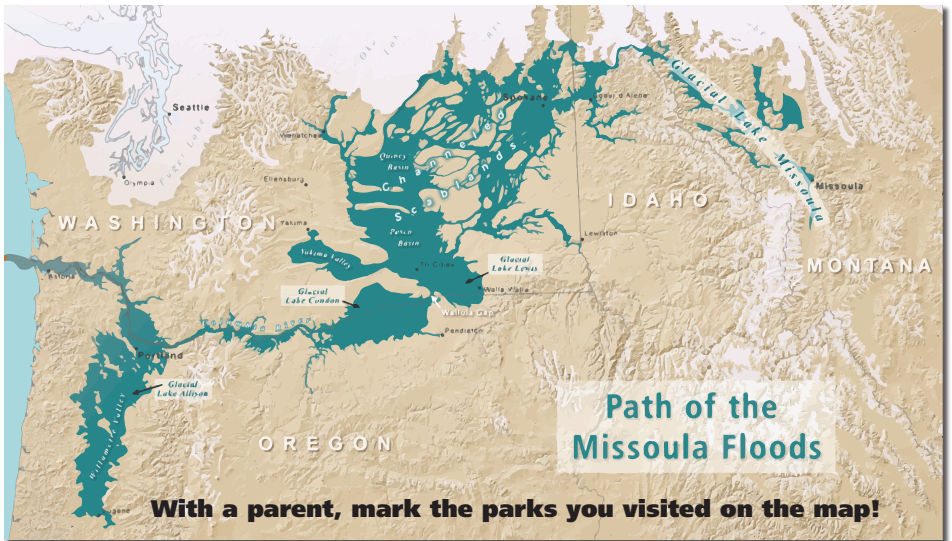
Basalt layers also come in different types of colors. Some are black, gold or red. Some areas look as though they're covered in lime-green moss. This "moss" is actually a living algae called **Lichen**.



**Draw some basalt layers you've found along the trail!**




# Ice Age Floods?



A stylized illustration of a massive, jagged ice formation, likely a glacier or ice shelf. The ice is depicted in various shades of blue and white, with sharp, vertical ridges and deep crevasses. The base of the formation is dark and shadowed, suggesting a deep, cold environment. The overall shape is irregular and imposing.


# The Trail's Many *Ecosystems*

## *Grassland & Shrub Steppe*




Open, dry, and rocky  
with lots of shrubs and grasses.

## *Forests*



A few open areas, mostly dense  
forests with all different trees.

## *Wetlands*



Marshy areas with water-loving  
plants, animals, and trees.