

# SETTLING THE MAINE WILDERNESS



## Moses Greenleaf, Maine's First Mapmaker

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### LESSON 16

### *Mapping Skills*

#### SUBJECT

Overview of basic mapping skills and terminology and the use of historical maps for analysis and comparison.

#### STUDENTS WILL

- Understand mapping terminology
- Become familiar with early maps of Maine

#### VOCABULARY (see webQuest map skills)

#### PREPARATION

1. Gather student laptops and an LCD projector to demonstrate WebQuest (if available).
2. Review WebQuest information and copy WebQuest packets for each student.
3. Read and copy the "Greenleaf Primer" for each student
4. Locate and review the maps from *Settling the Maine Wilderness* for this lesson (Figure numbers from the book in parentheses): "1802 Carleton Map" (Figure 2), "1815 Greenleaf Manuscript Map" (Figure 3), "1815 Greenleaf Printed Map" (Figure 4), "1843 Greenleaf Map" (Figure 5), "1828 Greenleaf Map" (Figure 6), "1829 Greenleaf Map" (Figure 9).

#### BODY OF LESSON:

##### Activity 1.

Discuss the importance of maps in understanding our surroundings, using the following questions as prompts:

Why might Moses Greenleaf have thought it was important to create maps of Maine?  
(suggest : locating natural resources, encouraging migration)

What can people gain from more accurate maps?  
(discuss old cartography and modern satellite imagery)

#### Activity 2.

Distribute the WebQuest packet.

1. Have students complete the first part of the WebQuest "Reviewing Map Skills."  
Go over the answers in class (grading optional). (**Knowledge, Comprehension**)
2. Have students use the information reviewed in the first part to complete the "Questions About the Maps from *Settling the Maine Wilderness*." (**Application**)
3. Lead a class discussion about the maps that they analyzed. (**Analysis**)

#### ASSESSMENT

Assess student performance on navigating websites, reading and analyzing websites for content, WebQuest packet, and comprehension of historic maps as primary sources.

#### EXTENSIONS

1. Compare historic maps and G.I.S. (geographic information systems).
2. Compare different types of maps and study their purposes.

# MAP SKILLS WEBQUEST

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## Introduction

This WebQuest is designed to help students review the map skills they have learned in elementary school. Through investigating these sites and answering the provided questions, you will freshen up your knowledge of map skills and be able to analyze primary sources in the form of historic maps of Maine.

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## Resources

The websites that are included in this WebQuest were created by a range of sources – teachers and educators, nonprofit organizations, governmental agencies, textbook companies and people interested in geography.

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## The Process

1. Enter the URL: [http://guest.portaportal.com/moses\\_greenleaf](http://guest.portaportal.com/moses_greenleaf) or enter the URL: <http://www.portaportal.com> and type in “moses greenleaf” as your guest name.
  2. Follow the instructions on the accompanying worksheet and fill in the answers as you find them on the websites.
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## Learning Advice



This information cannot be gathered by simply *googling* questions, it will require some genuine searching and thinking using the sites provided.

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# MAP SKILLS WEBQUEST

## Reviewing Map Skills

Go to the [Prentice Hall - Social Studies Skills - Geographic Literacy](http://phschool.com/curriculum_support/ss_skills_tutor/content/pop.html) site: [phschool.com/curriculum\\_support/ss\\_skills\\_tutor/content/pop.html](http://phschool.com/curriculum_support/ss_skills_tutor/content/pop.html) (or some other general mapping skills site) and try the "Social Studies Skills Tutor." Under the heading "Geographic Literacy" try "Using Cartographer's Tools" and "Analyzing and Interpreting Special Purpose Maps."

*Please answer the following questions TRUE or FALSE:*

\_\_\_\_\_ 1. The **compass rose** helps you find "relative location" on a map.

\_\_\_\_\_ 2. The **scale** helps you measure distance.

\_\_\_\_\_ 3. **Absolute location** is more precise than **relative location**.

\_\_\_\_\_ 4. The **grid** system includes **latitude** and **longitude**.

\_\_\_\_\_ 5. The lines that run east and west are also called **lines of latitude**.

\_\_\_\_\_ 6. Lines of latitude are measured by their relationship to the **equator**.

\_\_\_\_\_ 7. Lines of longitude are measured by their relationship to the **prime meridian**.

\_\_\_\_\_ 8. 30° N, 90° W is an example of **absolute location**.

\_\_\_\_\_ 9. The **legend** includes **symbols**.

\_\_\_\_\_ 10. **Symbols** in the **key** of the map can include icons and colors that represent information.

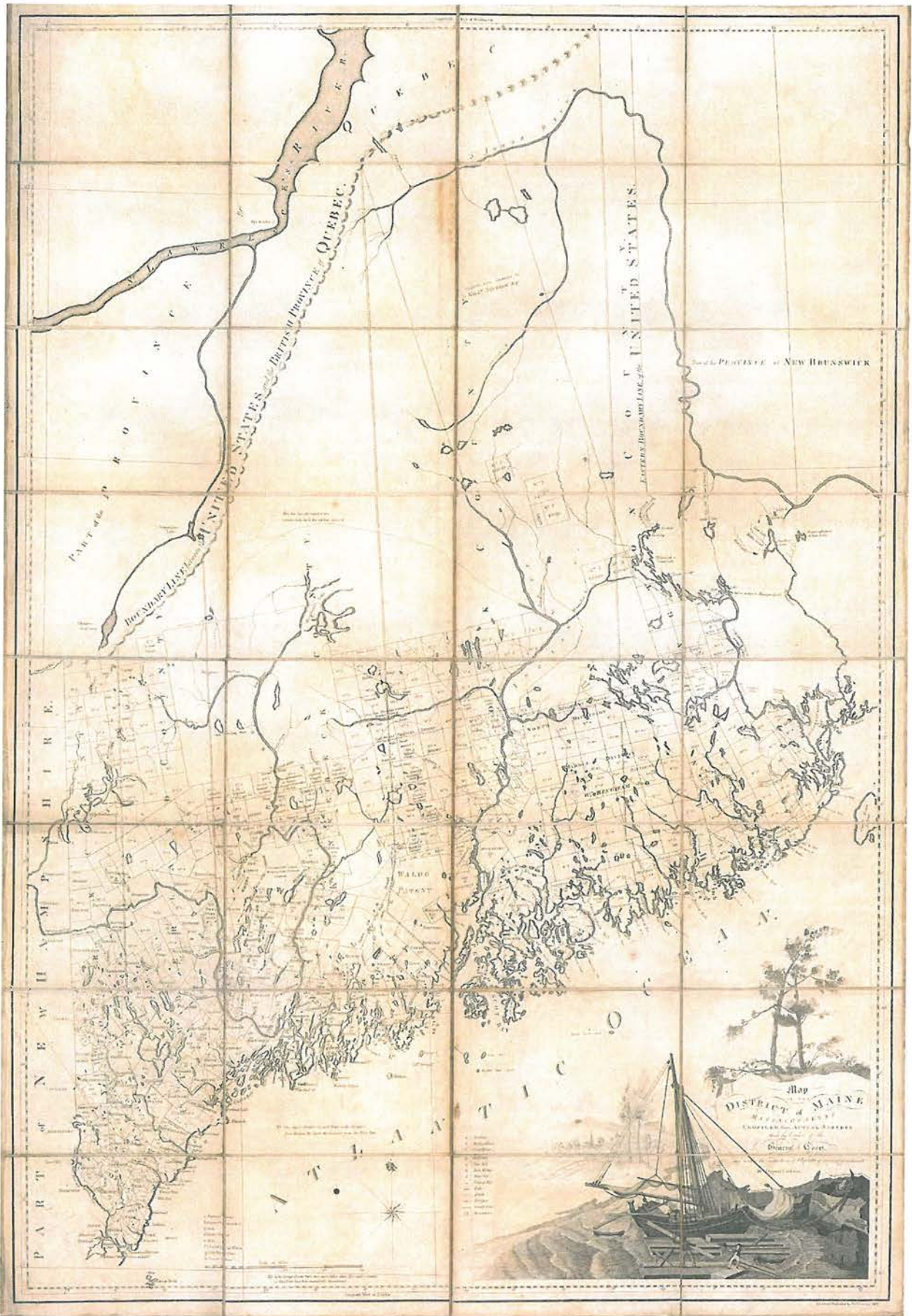
*Please answer the following multi-choice questions:*

- \_\_\_\_\_ 11. All of the following are common features on a map, **except**:
- a. Natural features
  - b. Chronological features
  - c. Man-made features
  - d. Physical features
- \_\_\_\_\_ 12. All of the following are examples of common maps, **except**:
- a. Thematic
  - b. Physical
  - c. Abstraction
  - d. Political
- \_\_\_\_\_ 13. **All** maps should have which of the following:
- a. Colors
  - b. Legend
  - c. Political boundaries
  - d. Lines of latitude and longitude
- \_\_\_\_\_ 14. When analyzing information on a map, it is essential to find:
- a. Similarities
  - b. Differences
  - c. Neither A or B
  - d. Both A and B

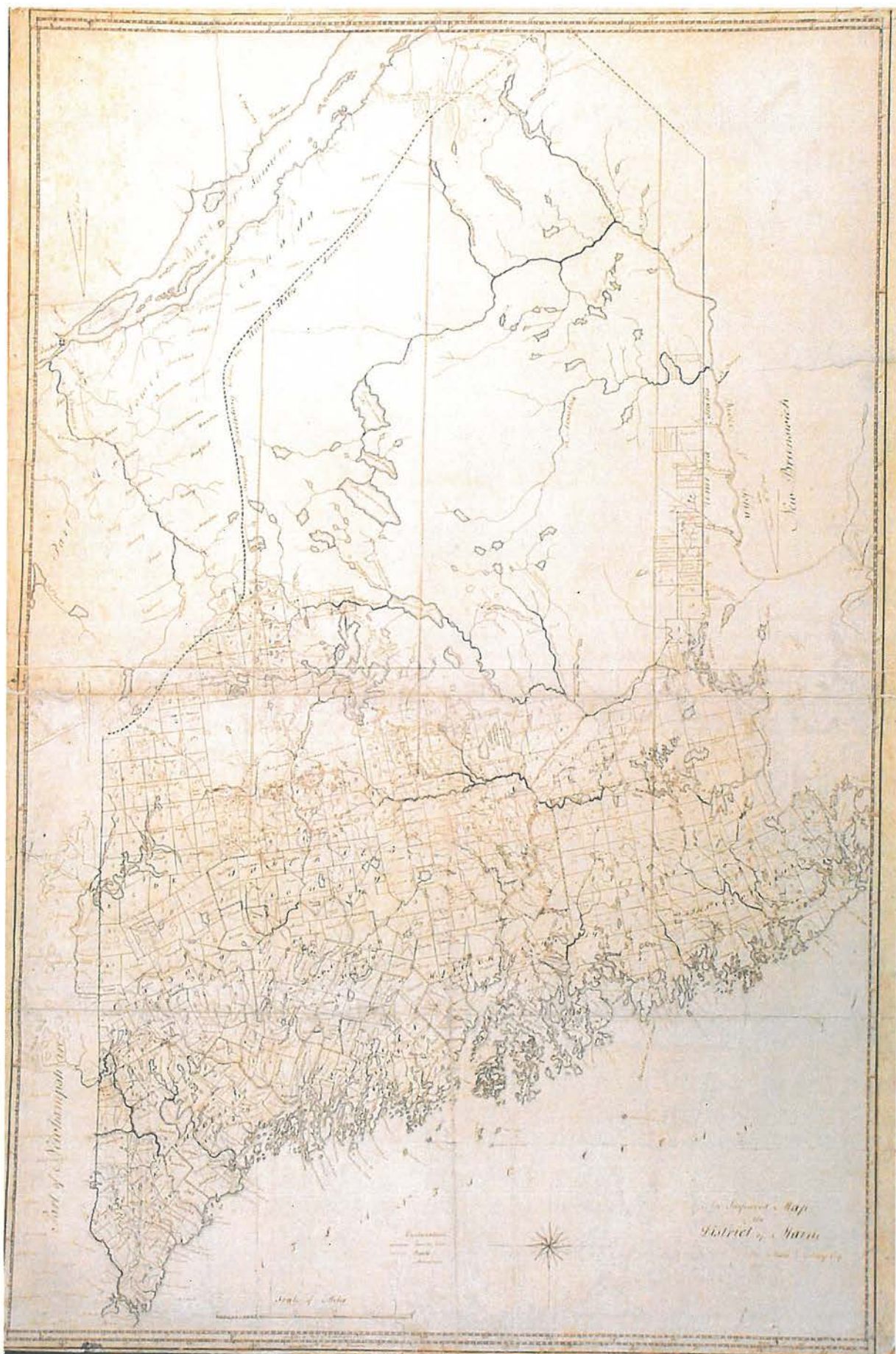
“Questions About the Maps from *Settling the Maine Wilderness*”

1. Look at the OSGOOD CARLETON MAP FROM 1802 (FIG. 2)
  - ii. What Canadian province lies to the northwest of Maine?
  - iii. What Canadian province lies to the northeast of Maine?
  - iv. What seems to be the most detailed area on the map?
  
2. Look at the GREENLEAF MANUSCRIPT MAP FROM 1815 (FIG. 3)
  - v. How have the Moosehead Lake Region's man-made features changed since Carleton's map?
  - vi. How have the features in the region north of Moosehead Lake (modern day Aroostook County) appear to have changed physically?
  - vii. Why did that “change” probably occur?
  
3. Look at the GREENLEAF PRINTED MAP FROM 1815 (FIG. 4)
  - viii. What is Greenleaf's “legend” called?
  - ix. What do the yellow lines signify?
  - x. What are the four counties stretching to the northern boundary?
  
4. Look at the GREENLEAF MAP FROM 1843 (FIG. 5)
  - xi. Why do you think this map includes so much of Canada?
  - xii. What are some bodies of water that are shown on this map that are not shown on early Moses Greenleaf maps?
  
5. Look at the GREENLEAF MAP FROM 1828 (FIG. 6)
  - xiii. What is the title of the map?
  - xiv. Why do you think there are two boundary lines, one yellow and one blue?
  - xv. What two rivers flow from the White Hills in New Hampshire?
  
6. Look at the GREENLEAF MAP FROM 1829 (FIG. 9)
  - xvi. Locate the table that shows population and taxable land.
    1. What districts (counties) have the highest and lowest populations?
    2. What district has the least taxable land?
  - xvii. Is your hometown and county on this map?
  - xviii. Locate the township that Moses Greenleaf settled.
    1. What four townships/towns border it and what is their relative location (ex. *Dexter is southwest of Dover*).

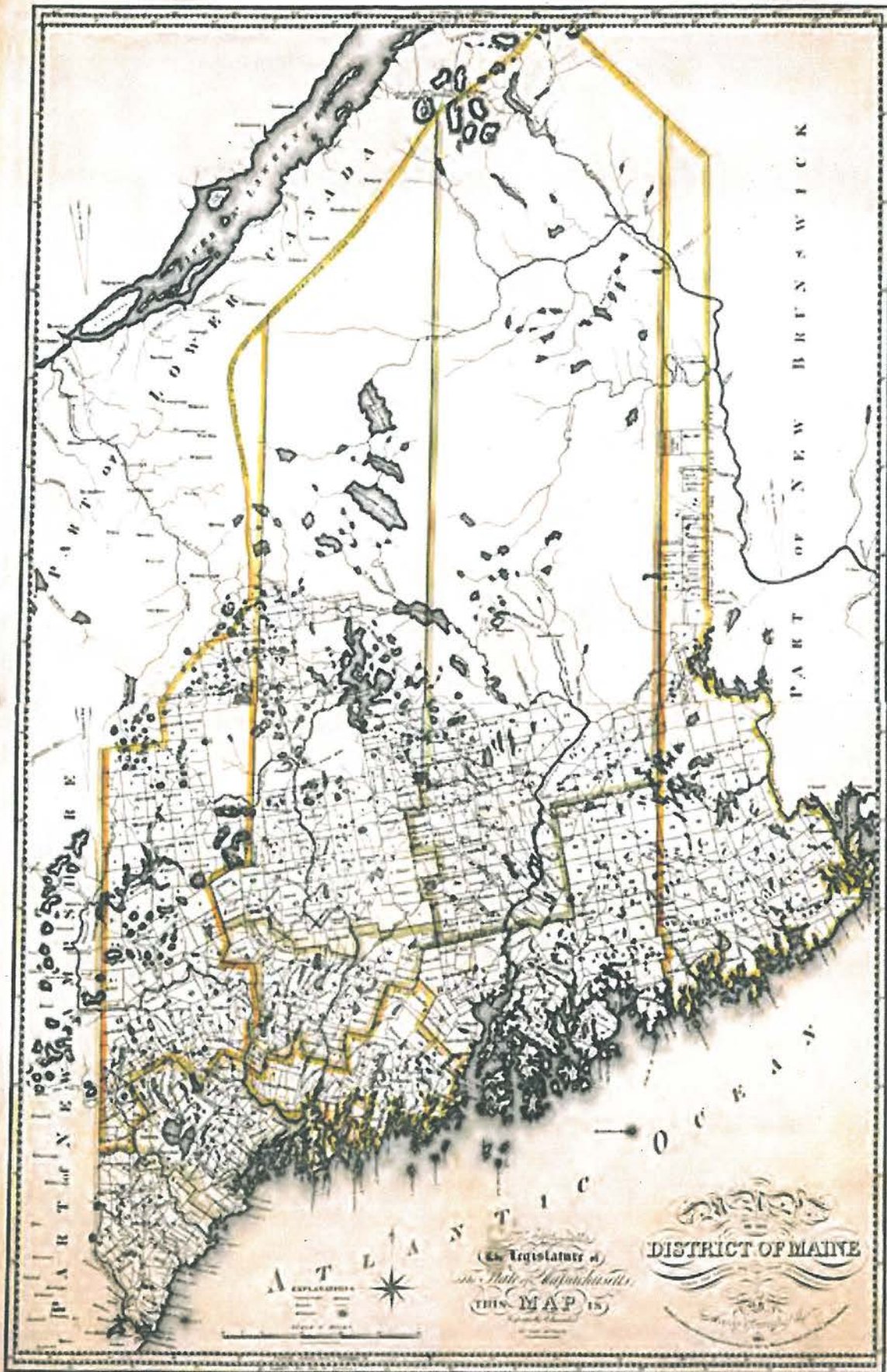




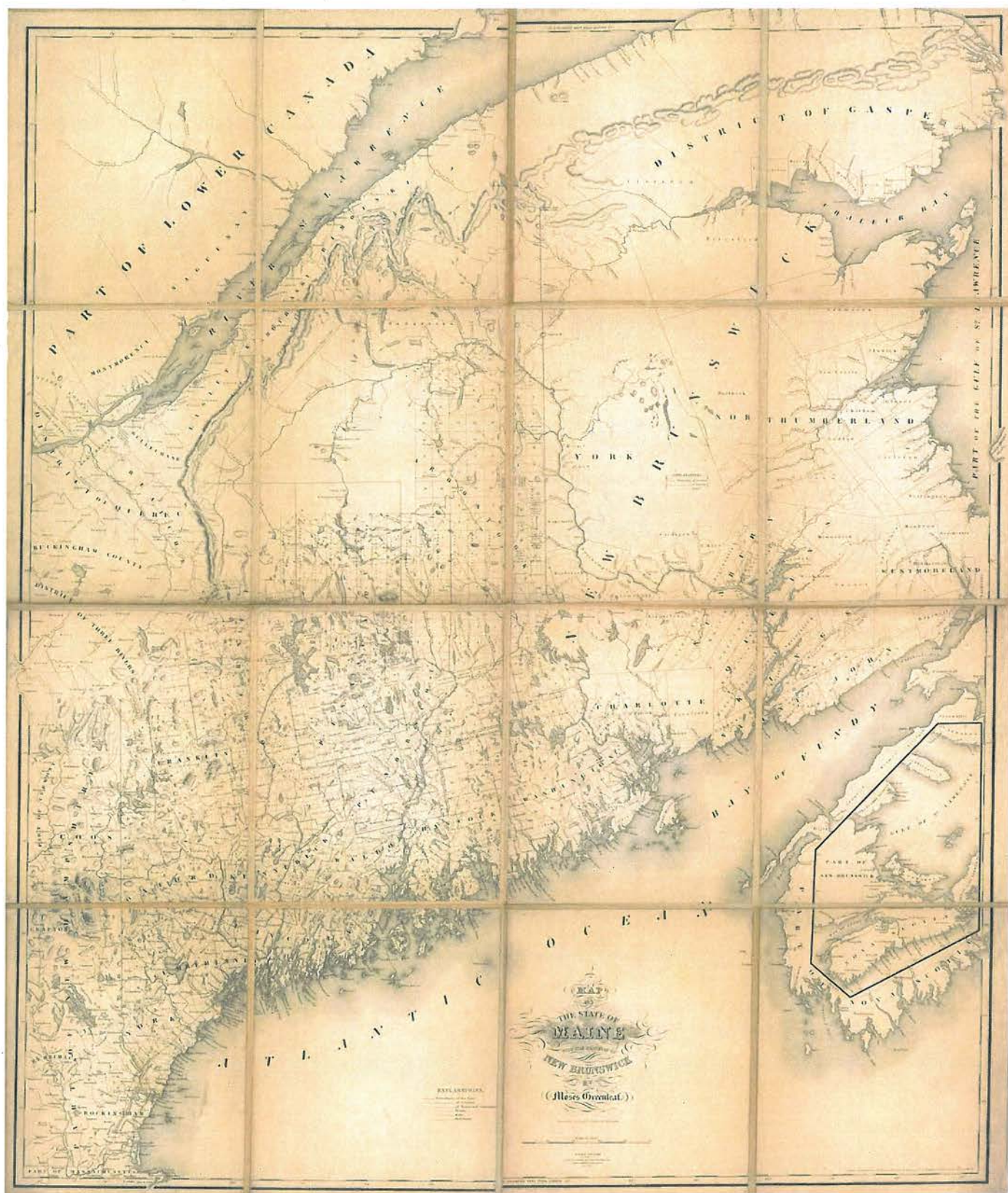
















MAP  
of the principal  
RIVERS, MOUNTAINS AND  
HIGHLAND RANGES  
of the  
**STATE OF MAINE.**

by Moses Greenleaf.  
1828.

SCALE OF MILES  
0 10 20 30 40 50 60 70 80 90 100



