

THE  
AMERICAN  
JOURNAL OF SCIENCE,

MORE ESPECIALLY OF

MINERALOGY, GEOLOGY,

AND THE

OTHER BRANCHES OF NATURAL HISTORY;

INCLUDING ALSO

AGRICULTURE

AND THE

ORNAMENTAL AS WELL AS USEFUL

ARTS.

CONDUCTED BY

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## PLAN OF THE WORK.

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**T**HIS Journal is intended to embrace the circle of the **PHYSICAL SCIENCES**, with their application to the **ARTS**, and to every useful purpose.

It is designed as a deposit for *original American communications*; but will contain also occasional selections from **Foreign Journals**, and notices of the progress of **Science** in other countries. Within its plan are embraced

**NATURAL HISTORY**, in its three great departments of **MINERALOGY**, **BOTANY**, and **ZOOLOGY**.

**CHEMISTRY** and **NATURAL PHILOSOPHY**, in their various branches; and **MATHEMATICS**, pure and mixed.

It will be a leading object to illustrate **AMERICAN NATURAL HISTORY**, and especially our **MINERALOGY** and **GEOLOGY**.

The **APPLICATIONS** of these sciences are obviously as numerous as *physical arts*, and *physical wants*; for no one of these arts or wants can be named which is not connected with them.

While **SCIENCE** will be cherished *for its own sake*, and with a due respect for its own *inherent dignity*; it will also be employed as the *handmaid to the Arts*. Its numerous applications to **AGRICULTURE**, the earliest and most important of them; to our **MANUFACTURES** both mechanical

and chemical; and, to our DOMESTIC ECONOMY, will be carefully sought out, and faithfully made.

It is also within the design of this Journal to receive communications on MUSIC, SCULPTURE, ENGRAVING, PAINTING, and generally on the fine and liberal, as well as useful arts.

On Military and Civil Engineering, and the art of Navigation.

Notices, Reviews, and Analyses of new and scientific works, and of new Inventions, and Specifications of Patents.

Biographical and Obituary Notices of scientific men; essays on COMPARATIVE ANATOMY and PHYSIOLOGY, and generally on such other branches of medicine as depend on scientific principles.

Meteorological Registers, and Reports of Agricultural Experiments: and we would leave room also for interesting miscellaneous things, not perhaps exactly included under either of the above heads.

Communications are respectfully solicited from men of science, and *from men versed in the practical arts.*

Learned Societies are invited to make this Journal, occasionally, the vehicle of their communications to the Public.

The editor will not hold himself responsible for the sentiments and opinions advanced by his correspondents; but he will consider it as an allowed liberty to make slight *verbal alterations*, where errors may be presumed to have arisen from inadvertency.

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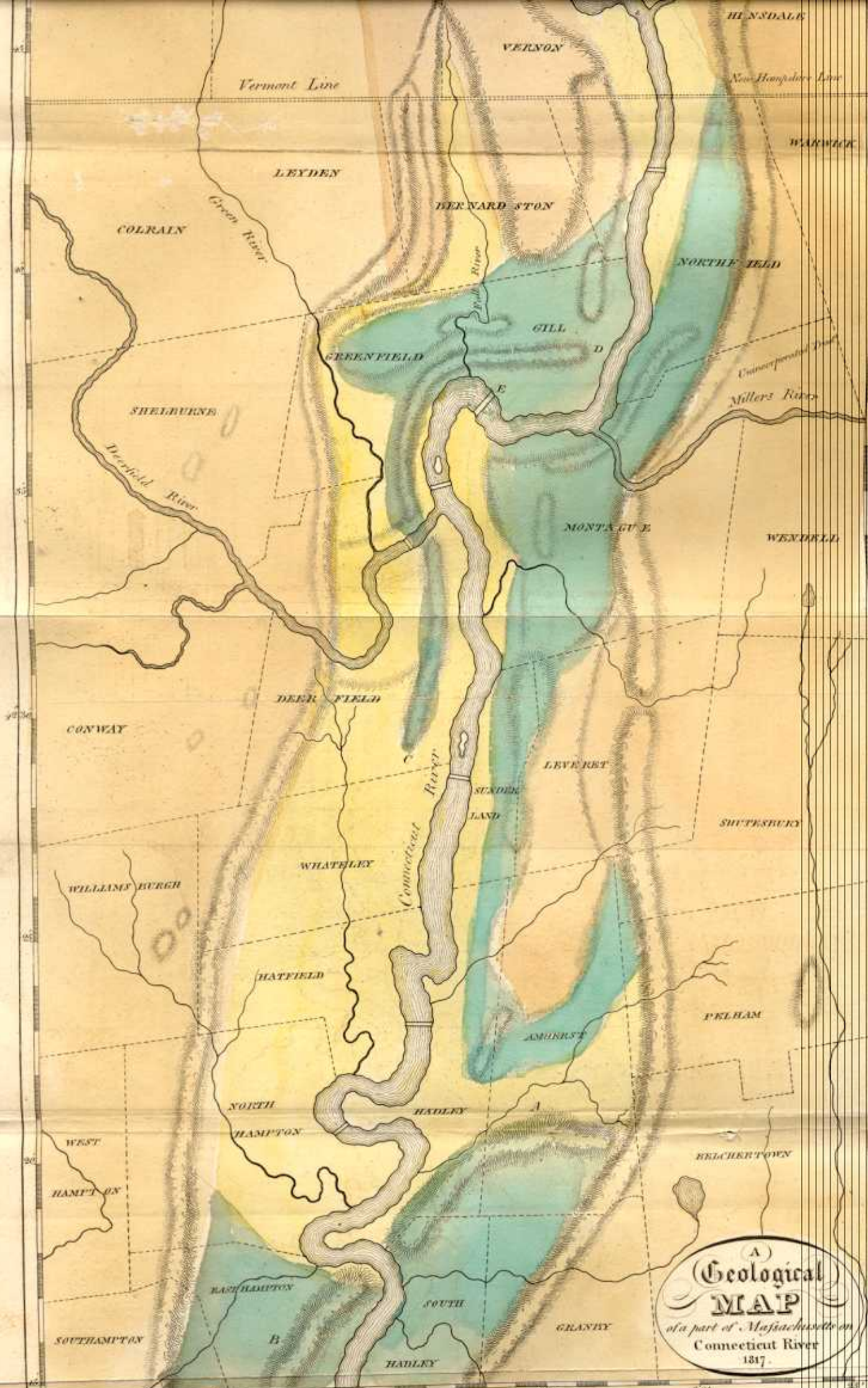
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 ERRATA.

Page 13, line 20, for Ea, read Ee.	
18, 1, for gain, read give.	
ib. 12, for Farcy, read Farey.	
24, 1, dele 3.	
ib. 7 from bottom, for composed, read compounds.	
26, 19, for harmonious, read armonious.	
35, 21, for effadiuntur, read effodiuntur.	
49, 30, for analieme, read analcime.	
59, 12, for Bognia, read Bagnia.	
ib. 5 from bottom, for concavtice, read concentric.	
70, 7 and 18, for anthraite, read anthracite.	
80, 11, for Festudo, read Testudo.	



(A)  
**Geological**  
**MAP**  
 of a part of Massachusetts on  
 Connecticut River  
 1817.



CALORIMOTOR.

Fig. 1.

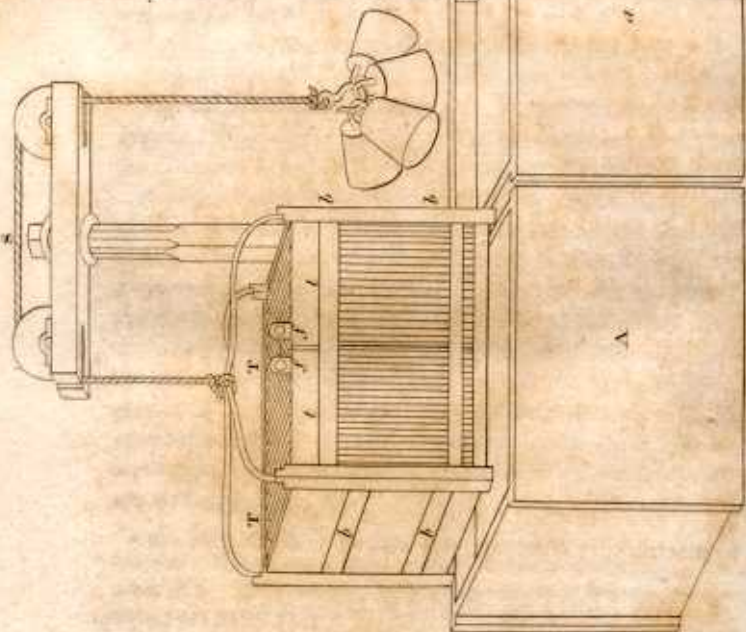


Fig. 2.



Fig. 3.

