"DONOP WAS LOST": USING FORENSIC SCIENCE TO RESOLVE A CASE OF MISTAKEN IDENTITY FROM THE AMERICAN REVOLUTION

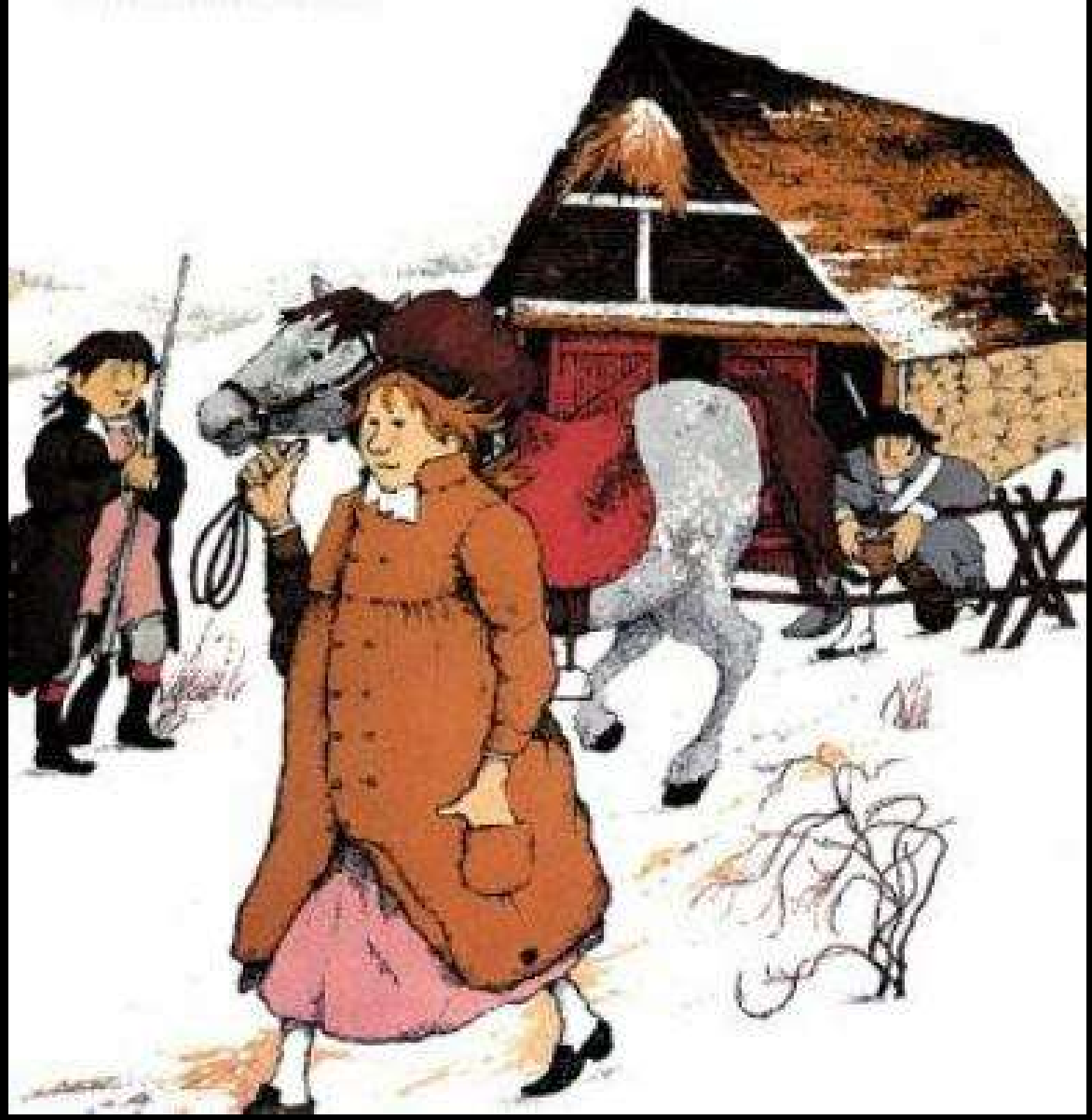
Richard Veit Monmouth University

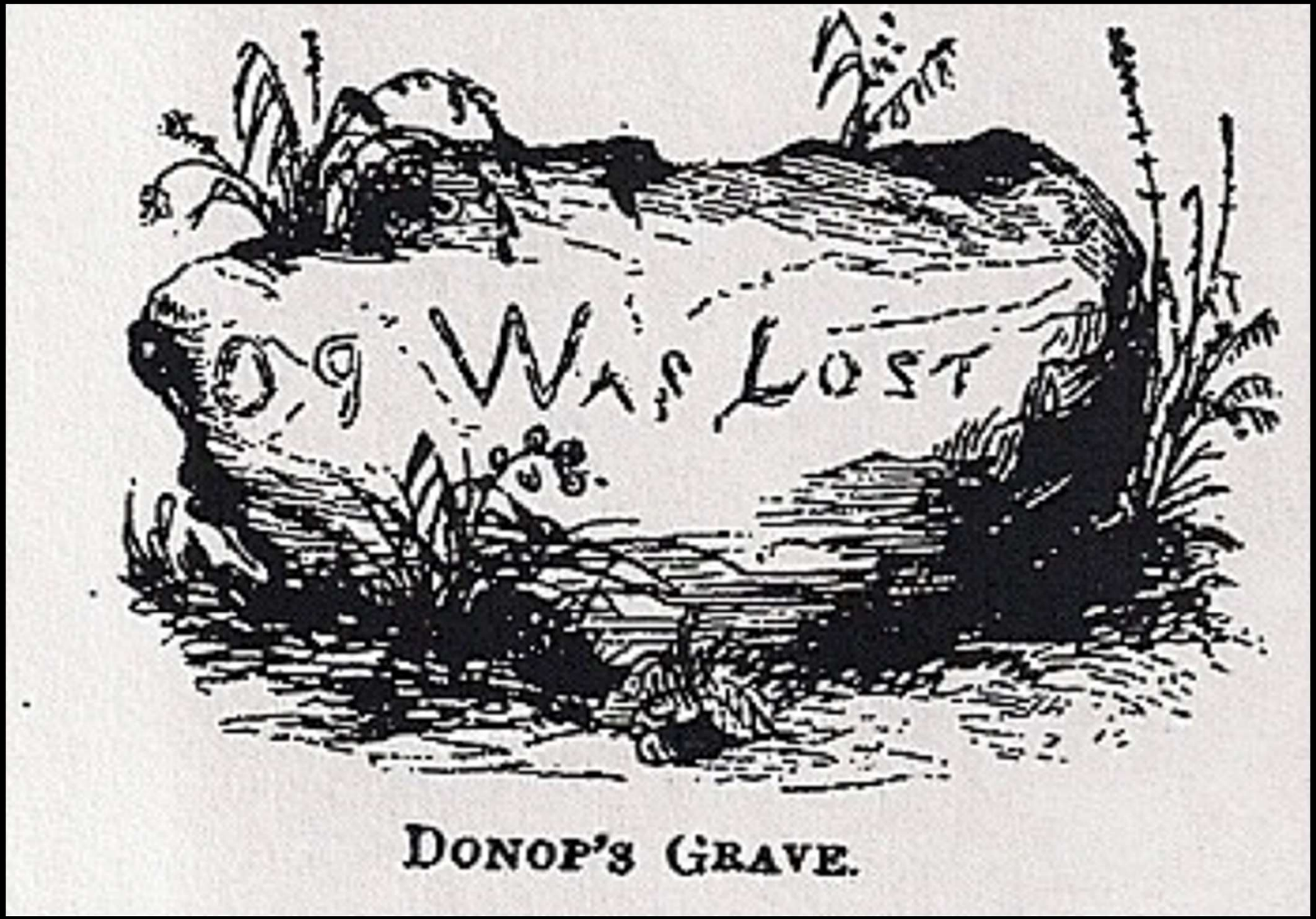
Department of History and Anthropology

This Time, Tempe Wick?

Patricia Lee Gauch

Margot Tomes





DONOP'S GRAVE.

Buccleuch Mansion, New Brunswick

Special Collections and Archives

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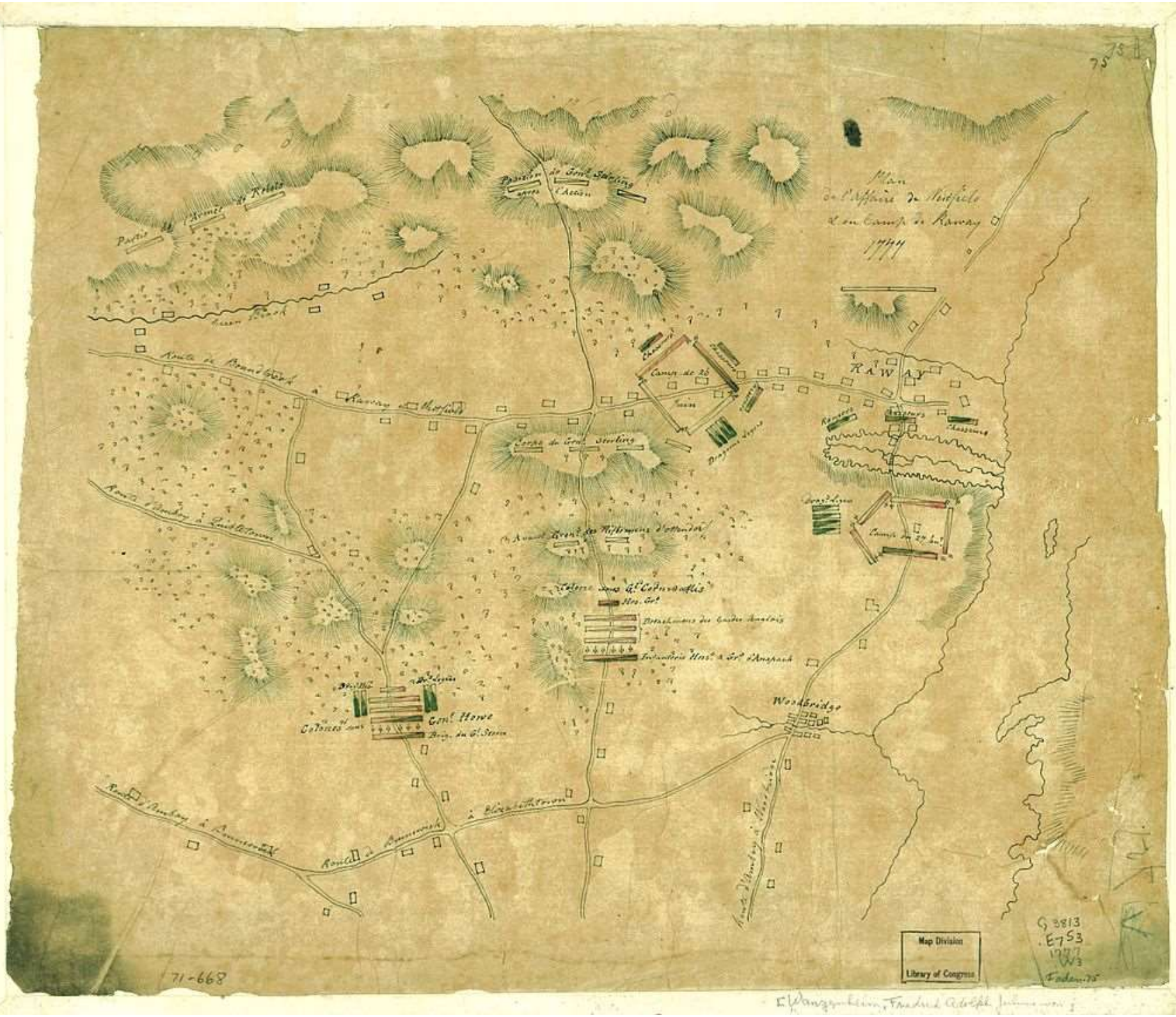
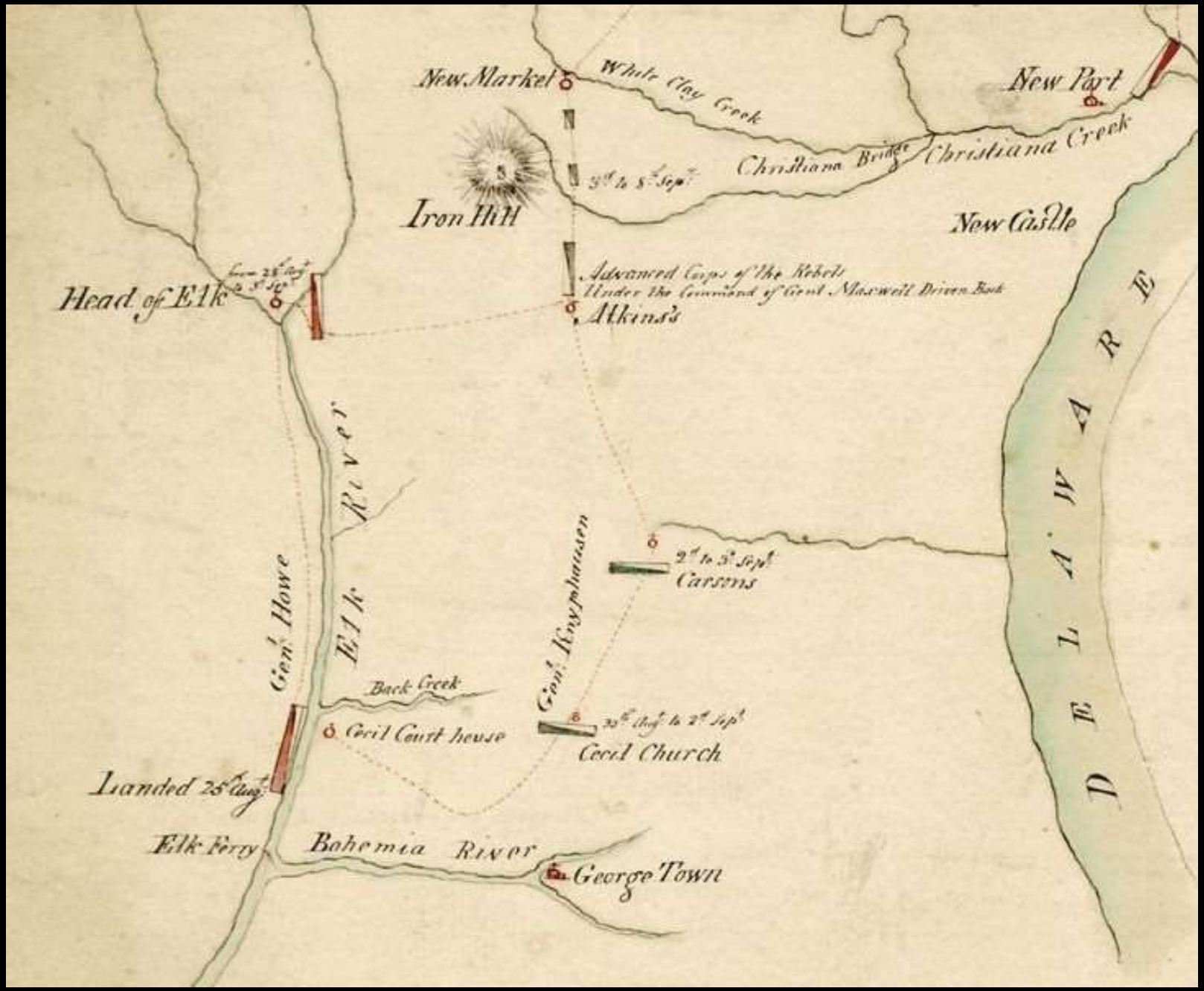
C. Rochling. 1904

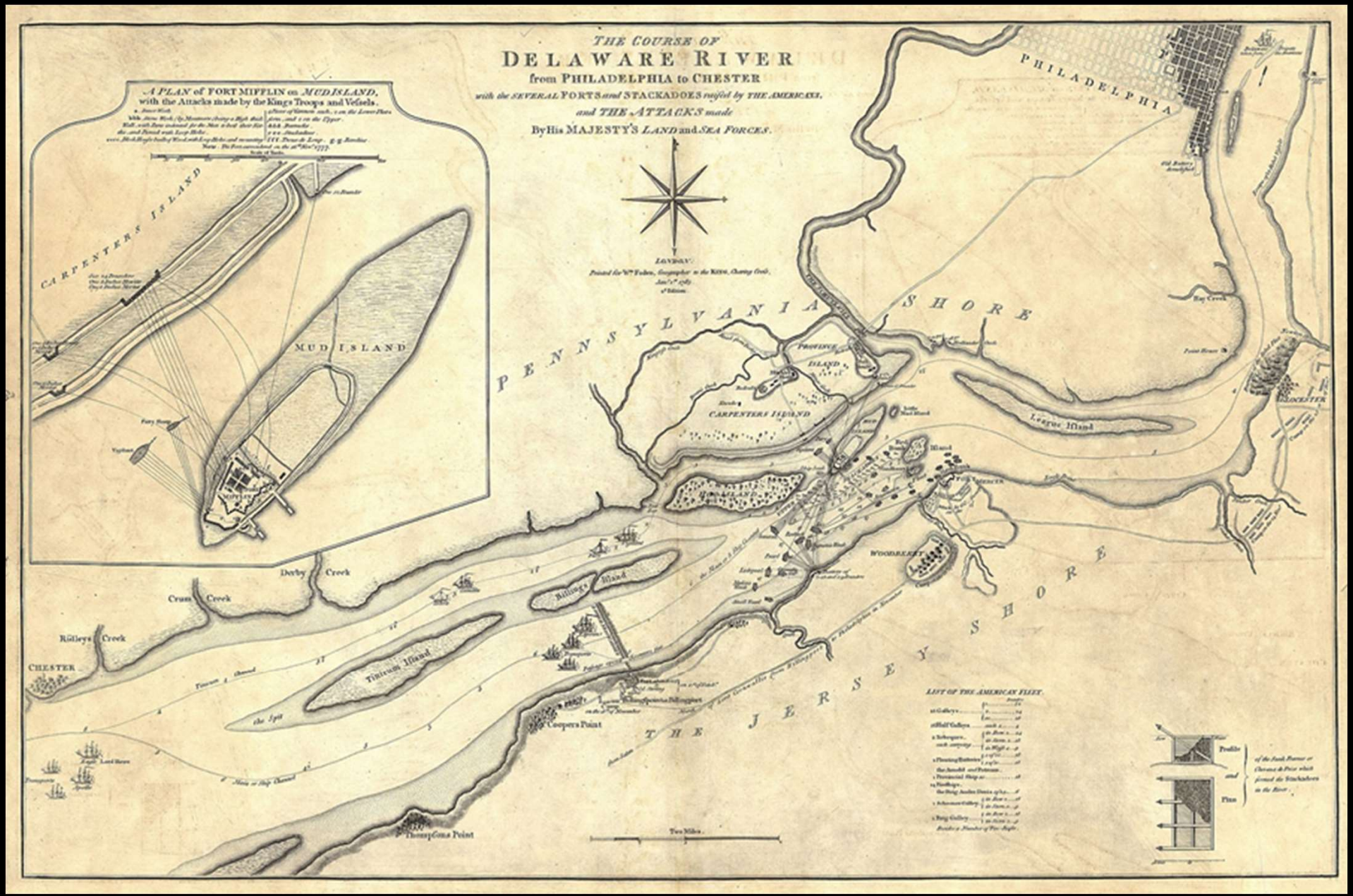
White Hill

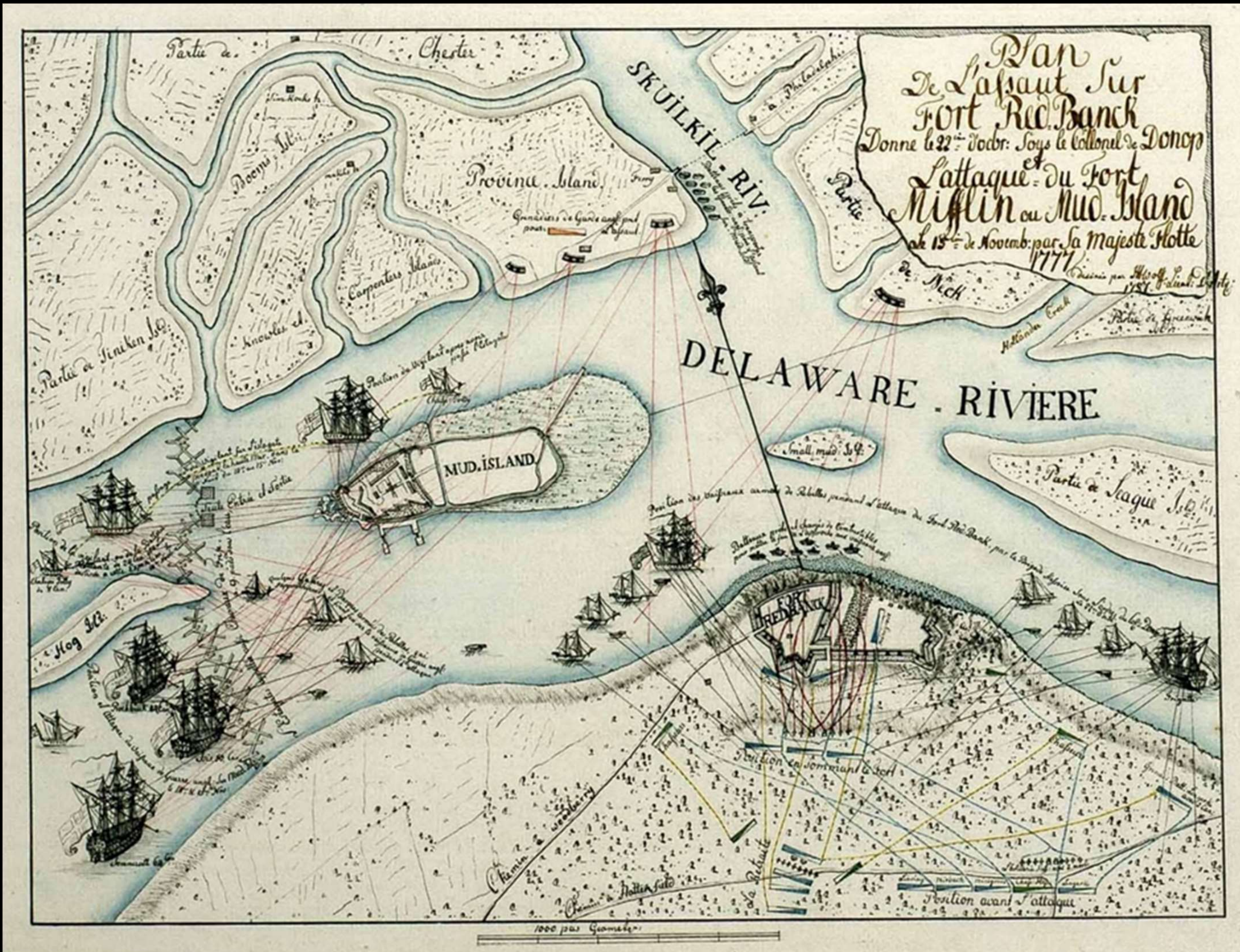
Trenton

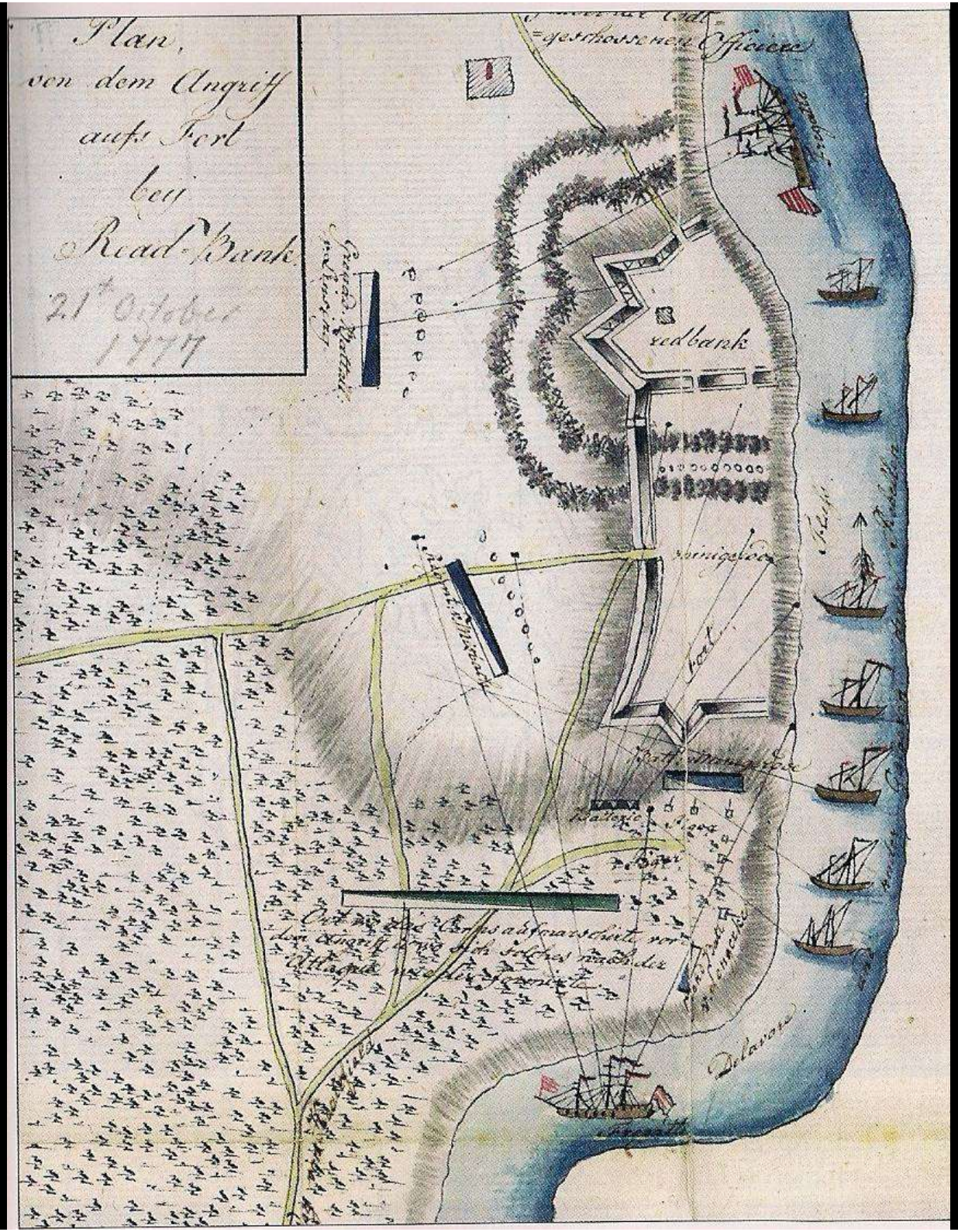

Plan
de l'Affaire de Metuchin
et son Camp de Rowey
1777
Route de Rowey à Woodbridge
Route d'Amboy à Brunswick
Route d'Amboy à Princetown
Woodbridge
Map Division
Library of Congress
71-668


New Market
White Clay Creek
New Port
Christiana Bridge
Christiana Creek
3d to 8th Sept.
Iron Hill
New Castle
Head of Elk
Advanced Corps of the Rebels
Under the Command of Genl Maxwell Driven Back
Atkins's
Elk River
Genl Howe
Genl Knyphausen
2d to 3d Sept.
Carsons
Back Creek
Cecil Court house
29th Augt to 2d Sept.
Cecil Church
Landed 25th Augt
Elk Ferry
Bohemia River
George Town
DELAWARE

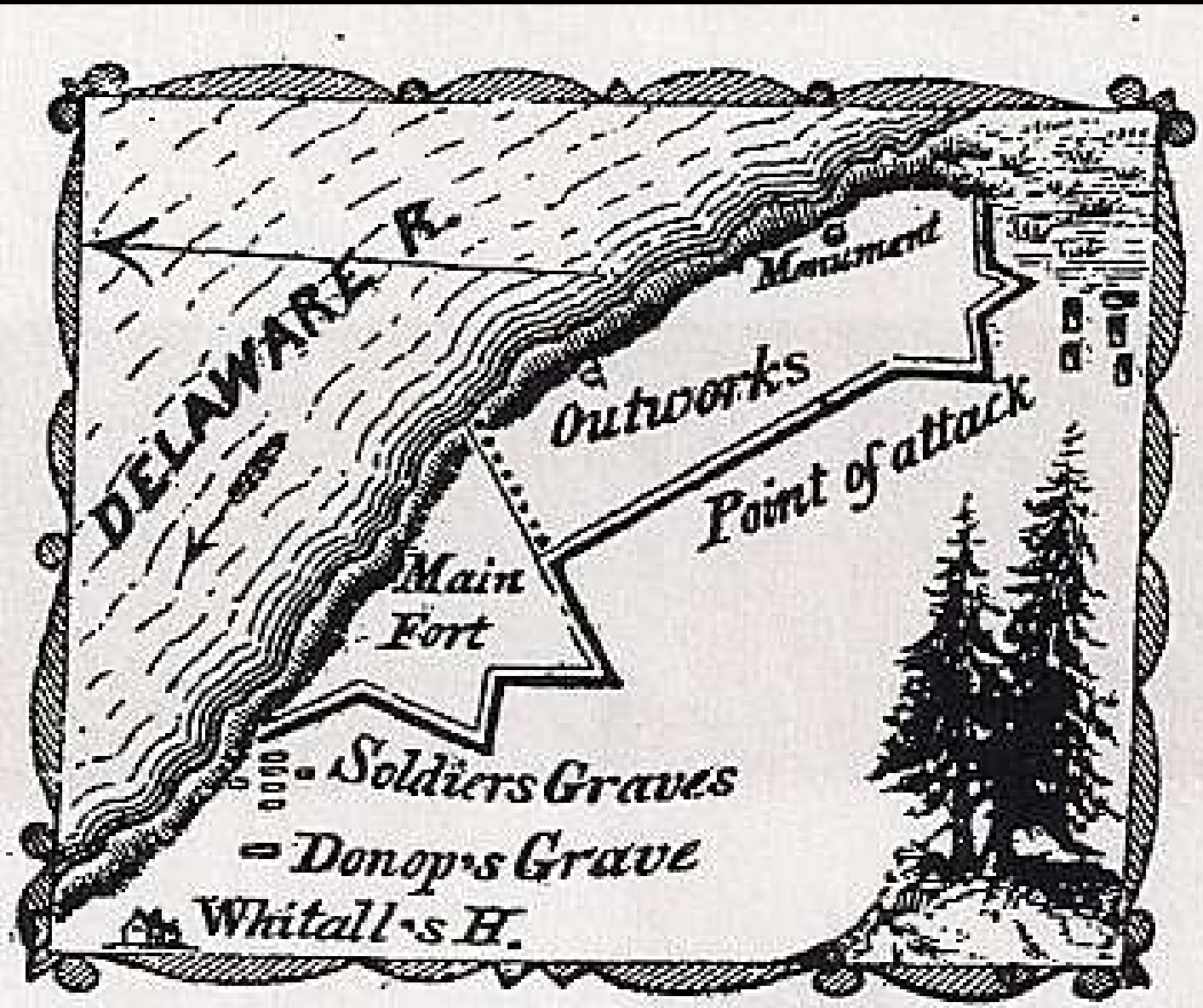
The Delaware River Forts



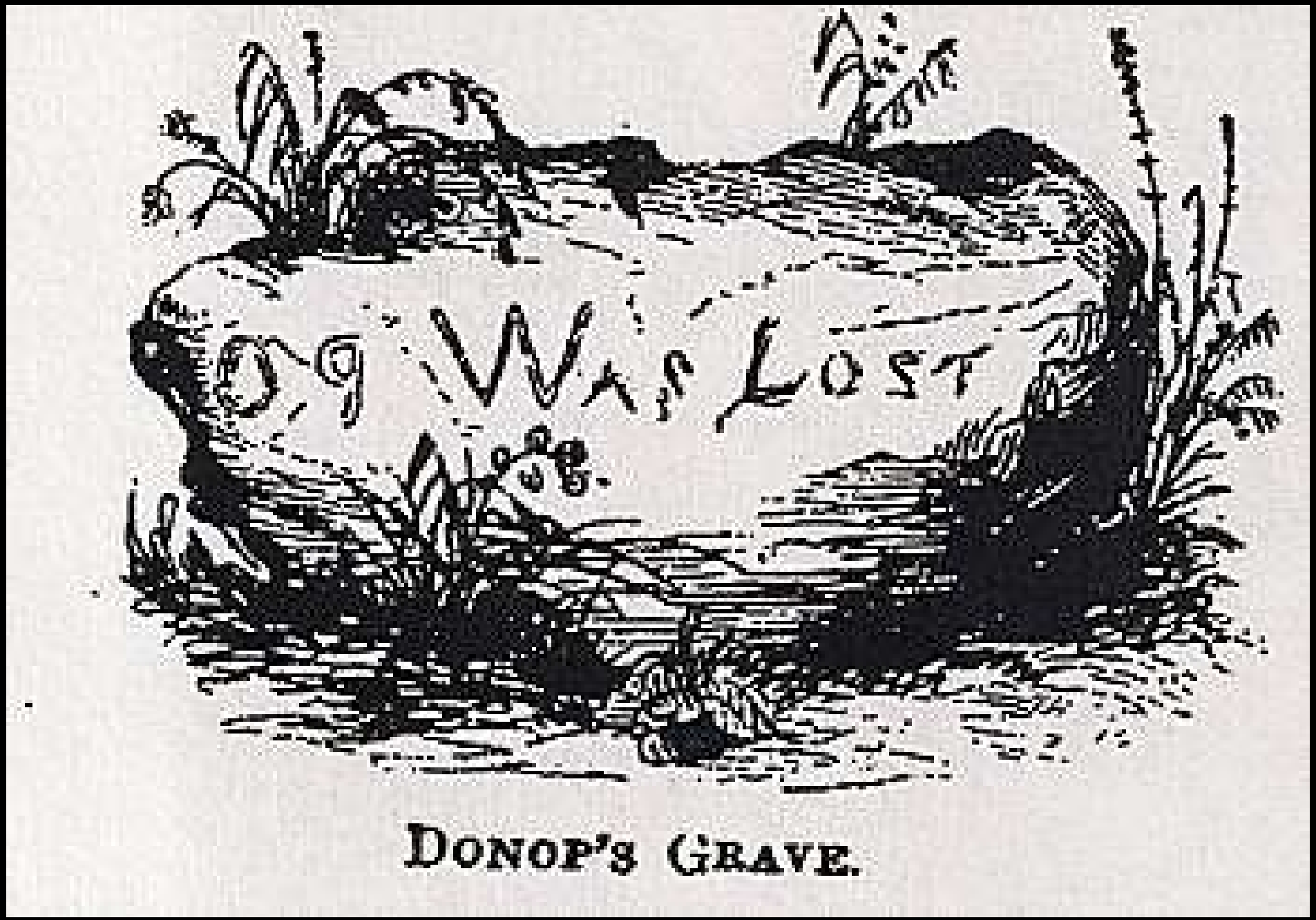

Plan
De L'assaut Sur
Fort Red Banck
Donne le 22. 8bre: Soys le Collonel de Donop
et
L'attaque du Fort
Mifflin ou Mud Island
le 15. de Novemb: par Sa Majeste Flotte
1777
Partie de Chester
Province Island
Carpenters Islands
Knowles Isl.
Partie de Tiniken Isl.
Hog Isl.
SKUILKIL RIV.
à Philadelphie
Partie de Neck
Hollander Creek
DELAWARE RIVIERE
MUD ISLAND
Small mud Isl.
Partie de Hague Isl.
FORT RED BANK
Position en sommant le Fort
Position avant l'attaque
Chemin de Woodberry
Chemin de Haddenfield
La Retraite
1000 pas Geometr.


Plan,
von dem Angriff
auf's Fort
bey
Read-Bank
21ten October
1777
redbank
Delaware

The Whitall House



LOCALITIES AT RED BANK.[1]



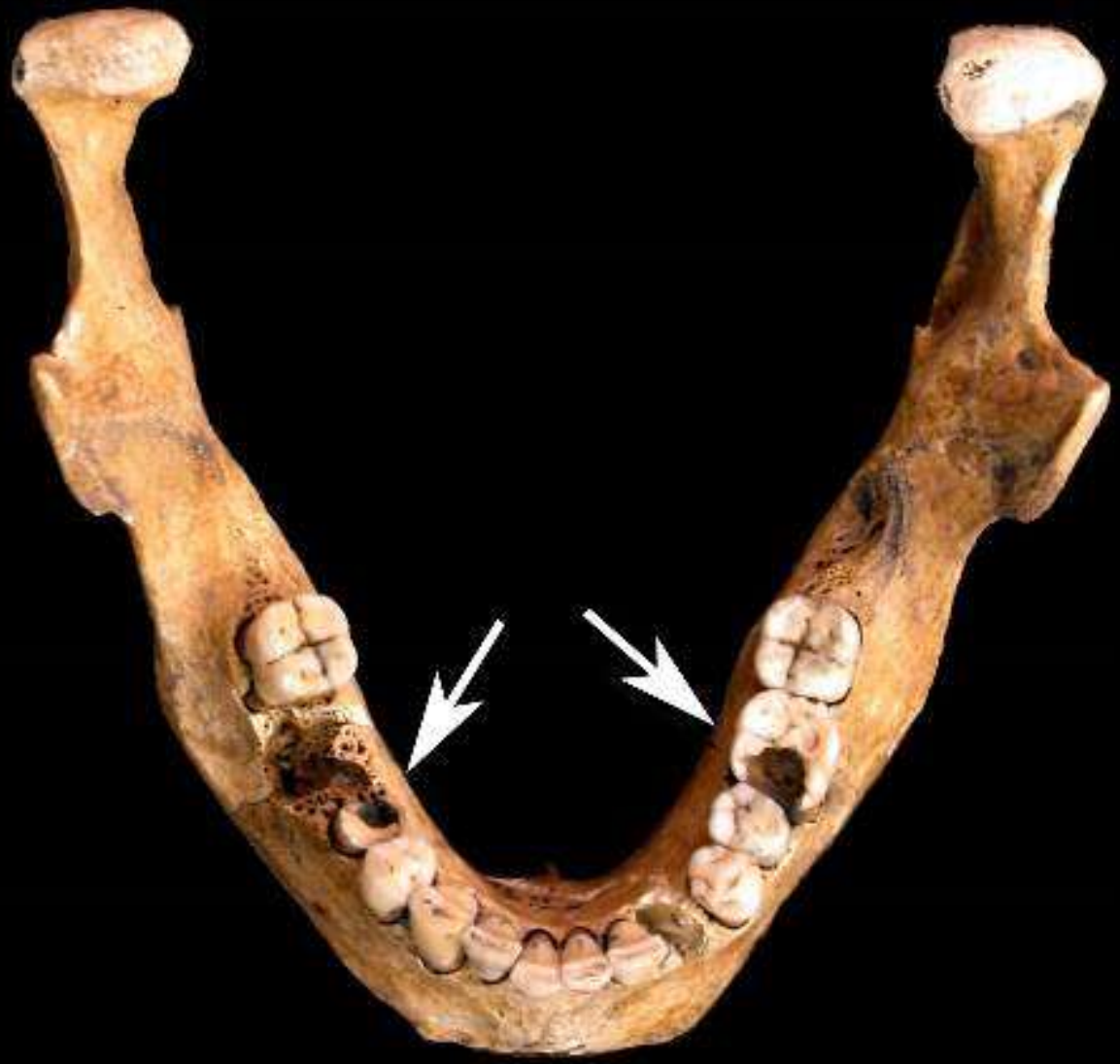
DONOP'S GRAVE.

“Skeletons are Biographies of Human Life” Doug Owsley

Nutritional Deficiencies

- Porotic Hyperstosis

Tooth Decay

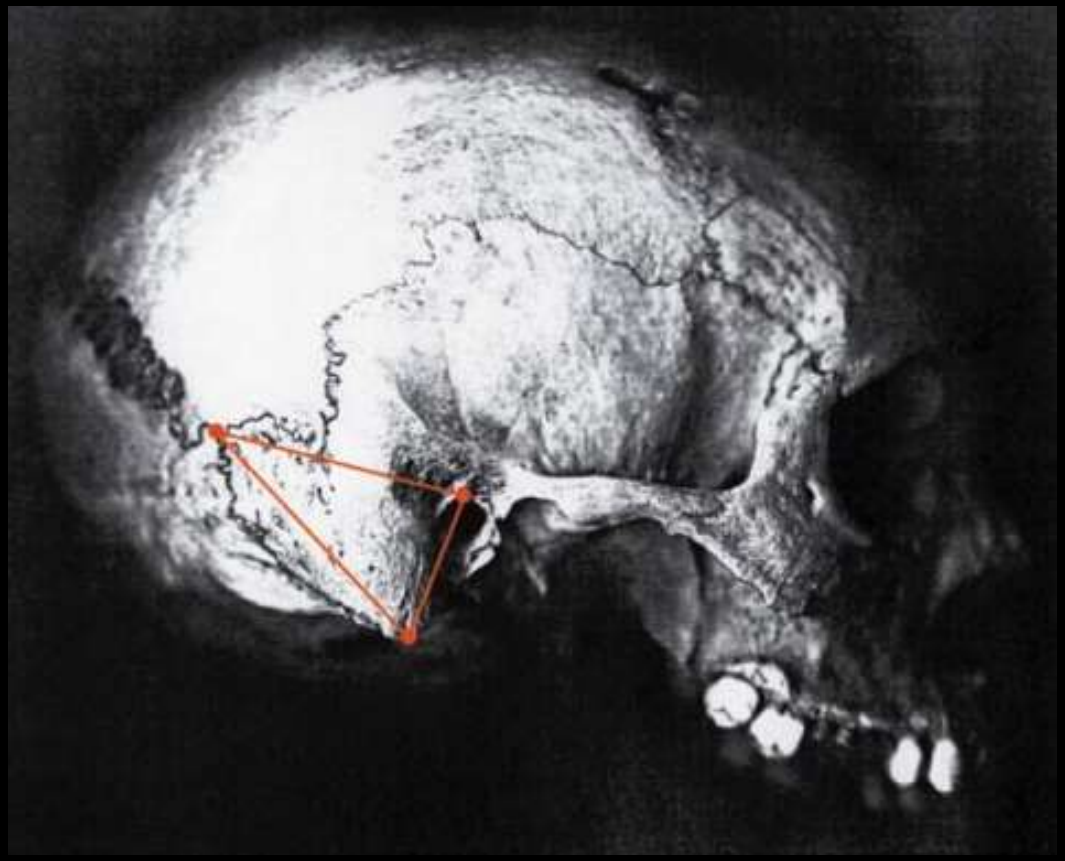


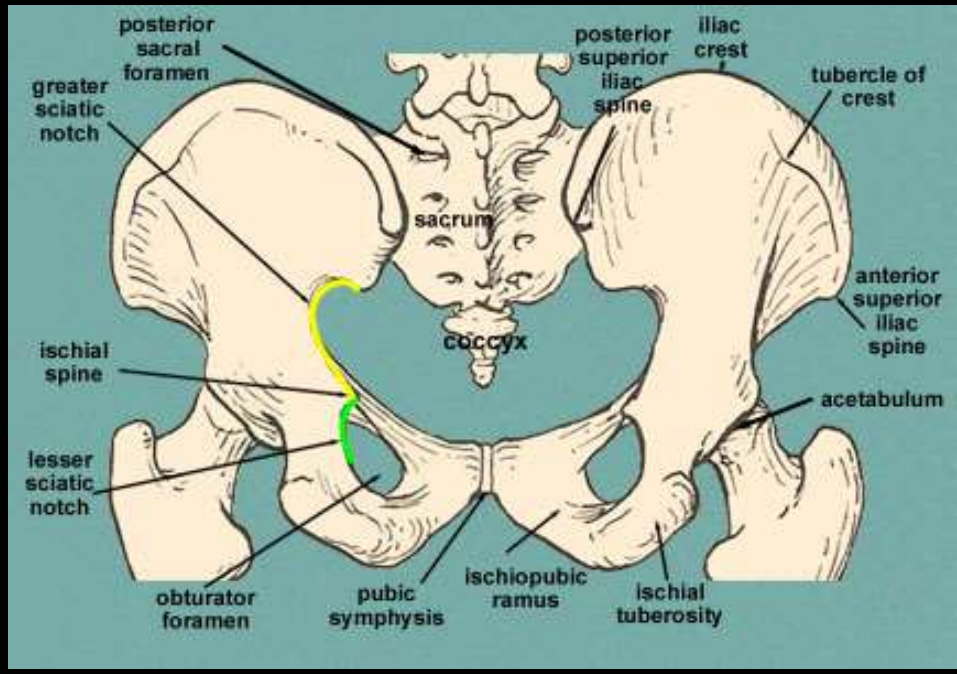
Injuries

Culture-Body Modification

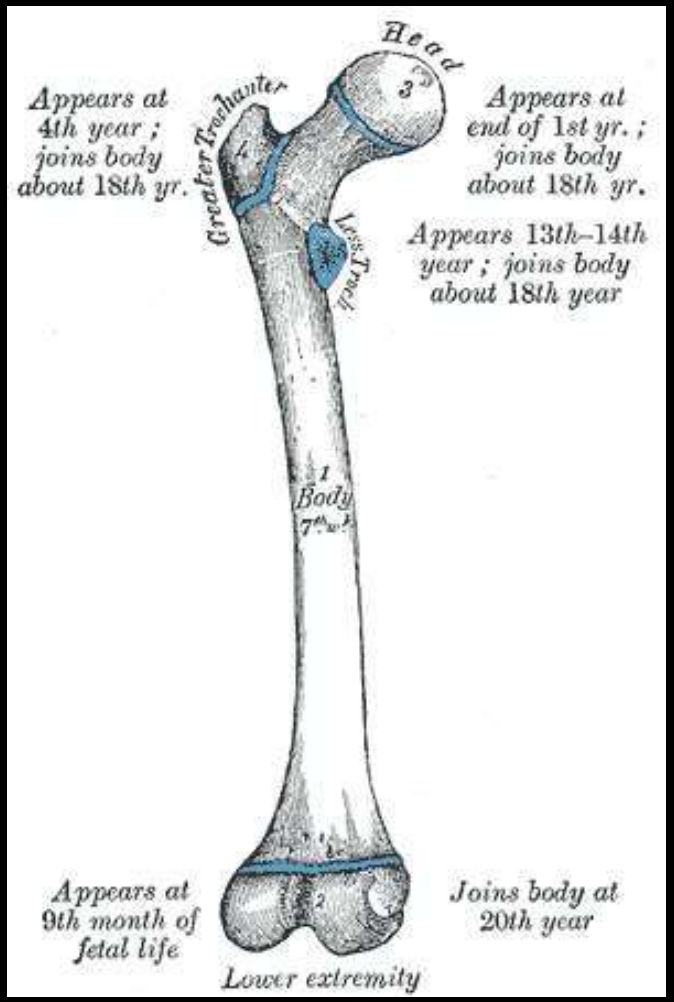
- Cranial Deformation
- Tooth insets

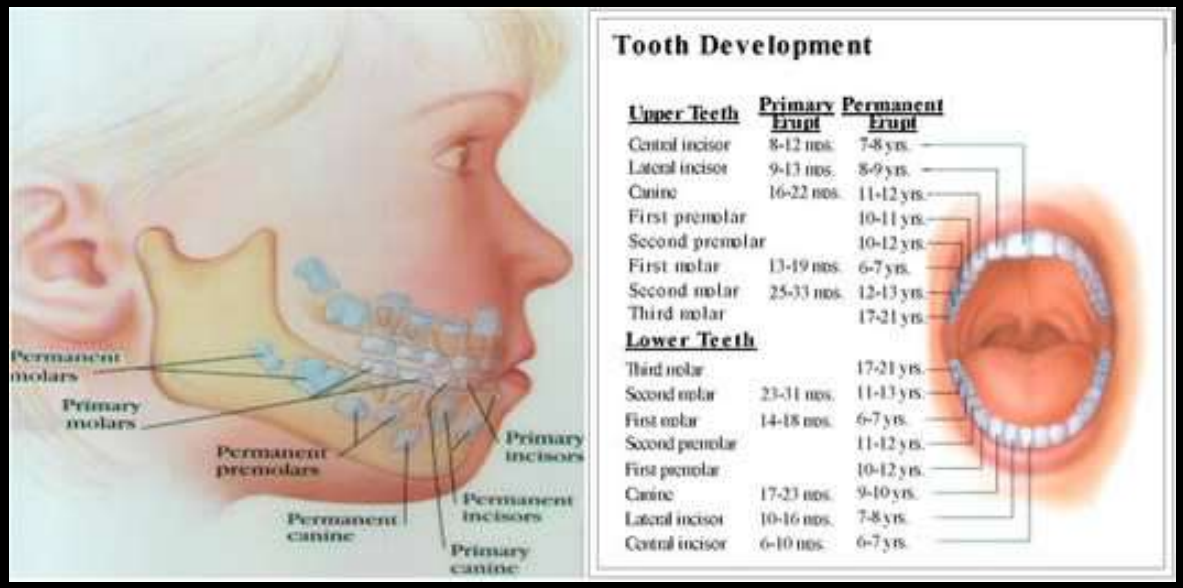
Male or Female





Age

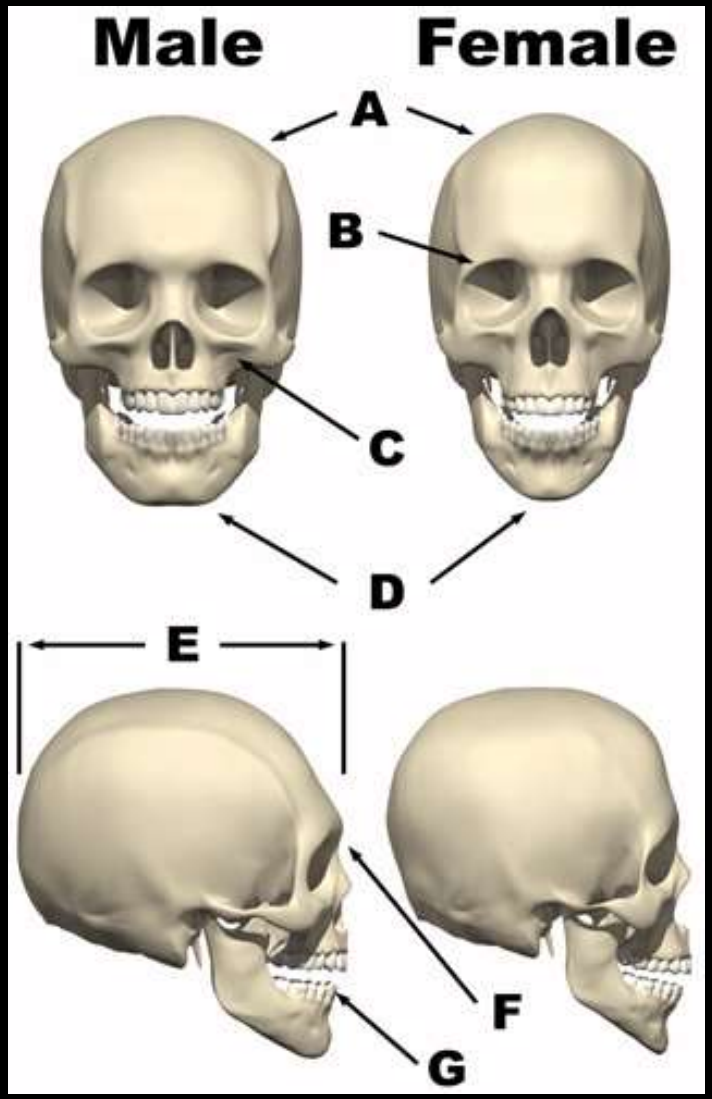

Head
Appears at 4th year ; joins body about 18th yr.
Greater Trochanter
Appears at end of 1st yr. ; joins body about 18th yr.
Lesser Troch.
Appears 13th–14th year ; joins body about 18th year
1
Body
Appears at 9th month of fetal life
Joins body at 20th year
Lower extremity


Permanent molars
Primary molars
Permanent premolars
Permanent canine
Primary incisors
Permanent incisors
Primary canine
Tooth Development
Upper Teeth | Primary Erupt | Permanent Erupt
Central incisor | 8-12 mos. | 7-8 yrs.
Lateral incisor | 9-13 mos. | 8-9 yrs.
Canine | 16-22 mos. | 11-12 yrs.
First premolar | | 10-11 yrs.
Second premolar | | 10-12 yrs.
First molar | 13-19 mos. | 6-7 yrs.
Second molar | 25-33 mos. | 12-13 yrs.
Third molar | | 17-21 yrs.
Lower Teeth
Third molar | | 17-21 yrs.
Second molar | 23-31 mos. | 11-13 yrs.
First molar | 14-18 mos. | 6-7 yrs.
Second premolar | | 11-12 yrs.
First premolar | | 10-12 yrs.
Canine | 17-23 mos. | 9-10 yrs.
Lateral incisor | 10-16 mos. | 7-8 yrs.
Central incisor | 6-10 mos. | 6-7 yrs.

Technology


Becoming
BIONIC
Today we can repair our bodies. Through advances in medical knowledge and surgical intervention, we rebuild bones fractured by trauma and replace worn-out joints with artificial implants.
Modern medicine delivers treatments undreamed of in the 17th century.

Colonel von Donop

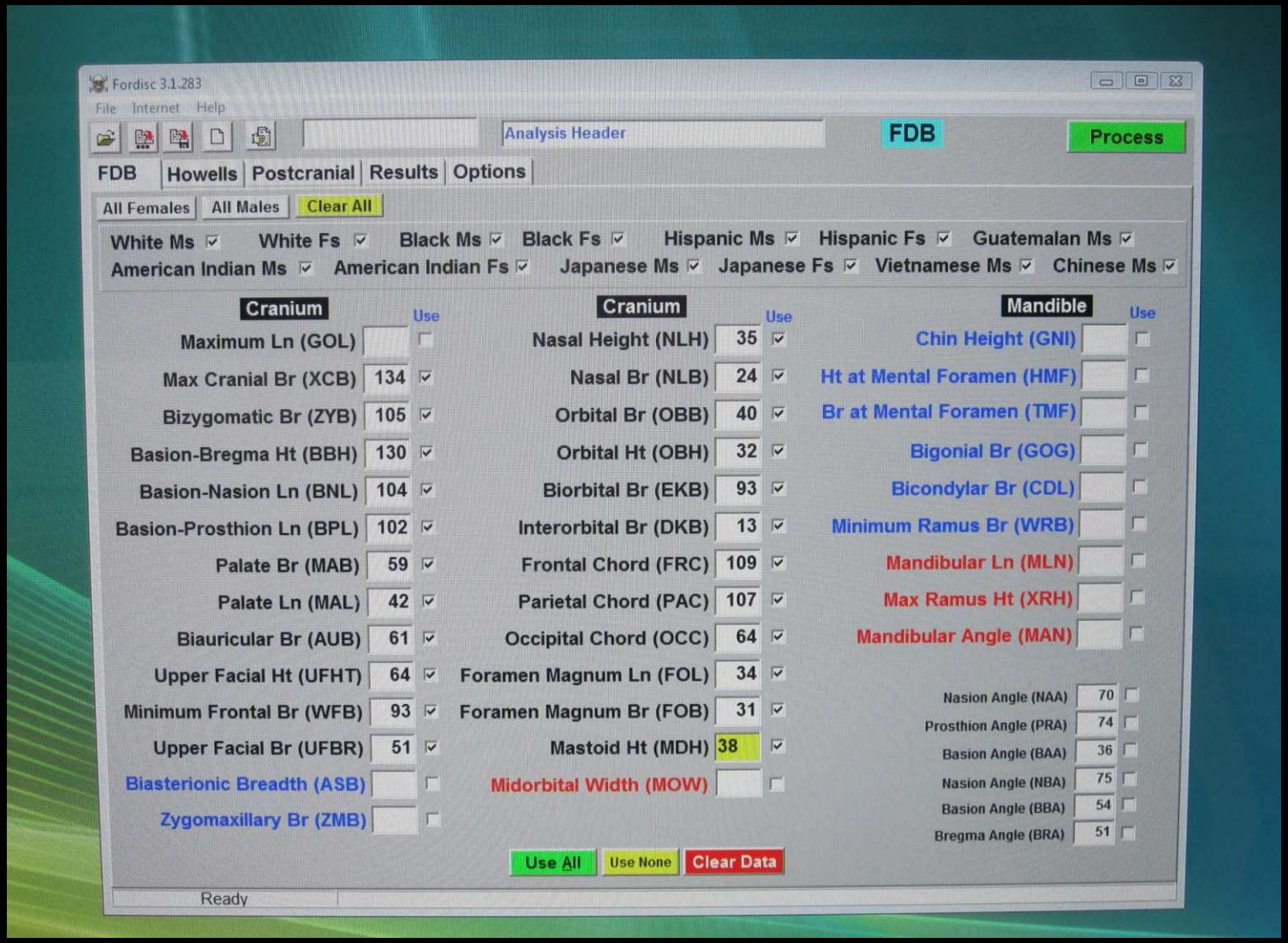

Male
Female
A
B
C
D
E
F
G

More Studies

Discriminant functions analysis software that is used to determine ancestry and sex from unidentified human remains using biometrics

The program compares potential profiles to data contained in the American Forensic Database of skeletal measurements from *modern humans*

Cranial Measurements for Fordisk



Osteophytes

Cribra orbitalia

The Mystery Continues

- Analysis indicates the skull likely belonged to a woman of European ancestry in her mid 30s.
- Historical indicates that this skull was long believed to belong to Colonel von Donop.
- DNA or Bone Chemistry might resolve these issues.

But Wait, There's More


SHIZ UNI


SOMERS MANSION


SOMERS MANSION
EU 3
STRATUM 3
FEATURES 1&2
1,9 BD
5 6 23