

SHIPS AND SHIPBUILDING IN THE VIKING AGE



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SHIP EXCAVATIONS

Hjørtspring, ca. 300 B.C.

Nydam, ca. 350-400 A.D.

Sutton Hoo, ca. 625 A.D.

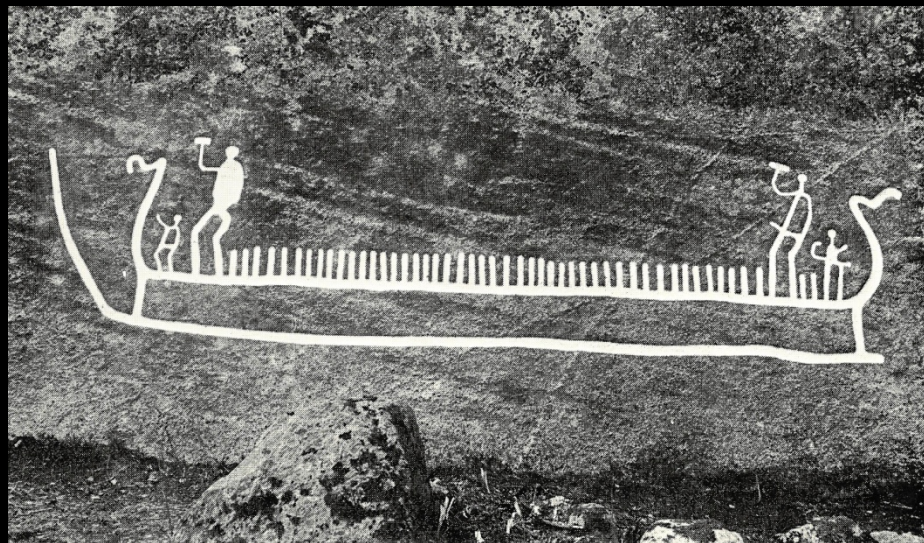
Kvalsund, ca. 700 A.D.

Oseberg, ca. 835 A.D.

Gokstad, ca. 900 A.D.

Skuldelev Ships, ca. 975-1000 A.D.

Ship Rock Carving, Bjornstad, Norway, ca 1500-1100 B.C.

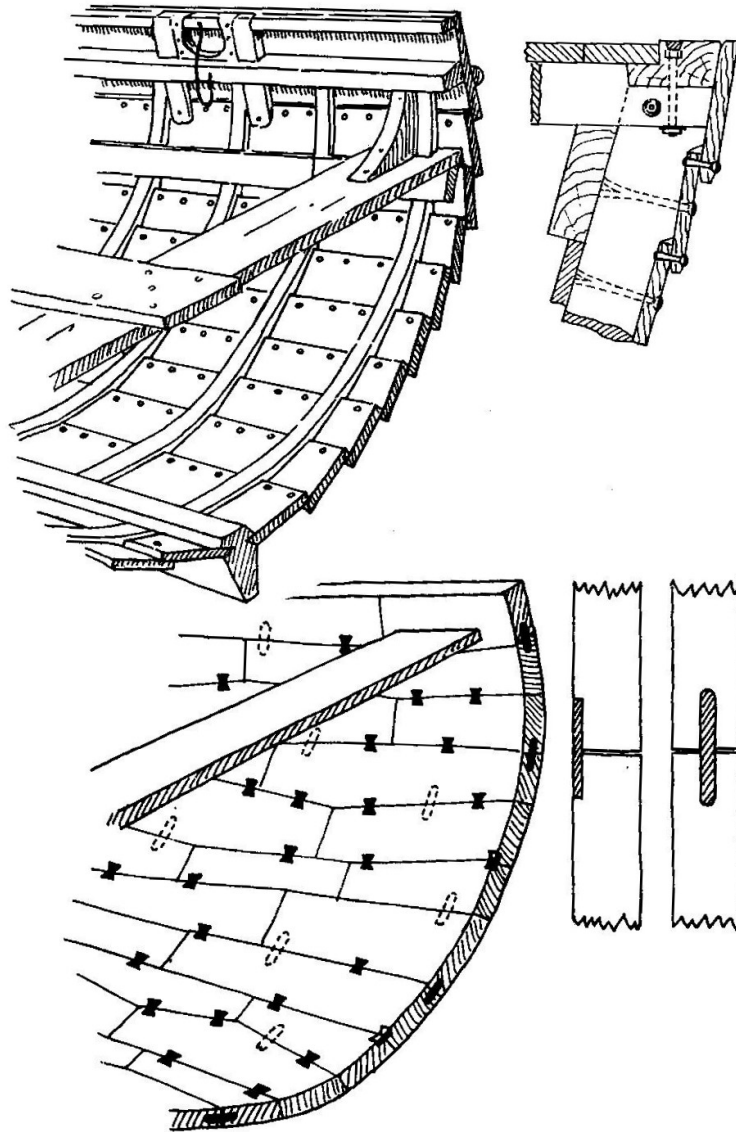


Hjortspring Ship, Denmark, ca. 300-200 B.C.

Length 50 feet, crew 20



1: Northern European Clinker-building with Overlapping Planks (top) and Roman Mortise and Tenon Construction (bottom)

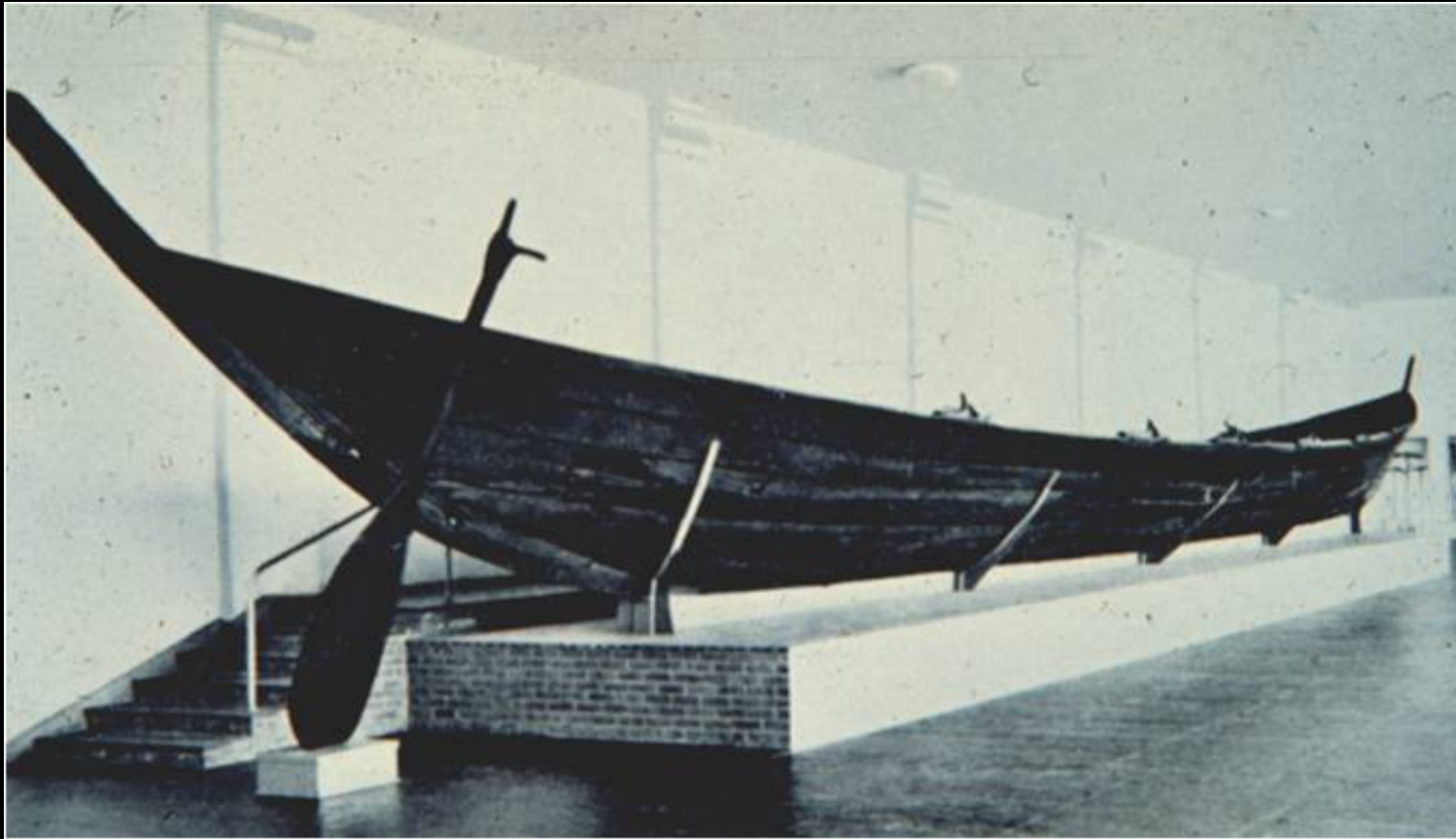


CONSTRUCTION TECHNIQUES

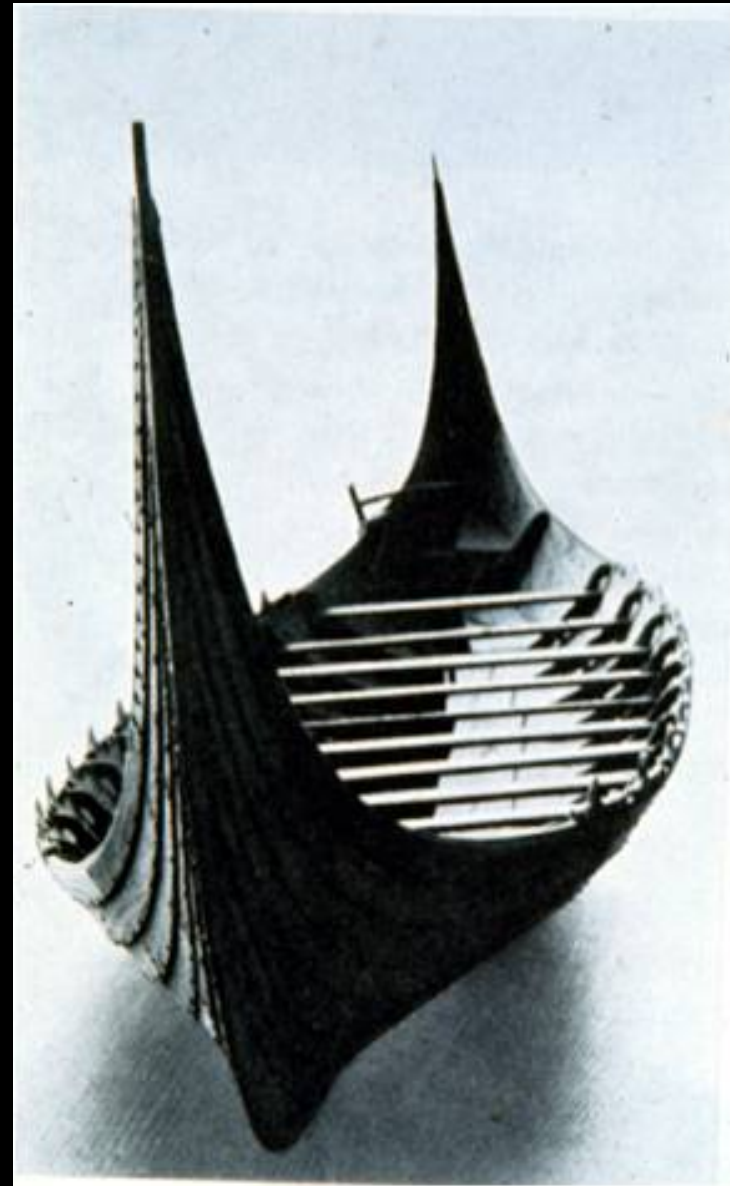
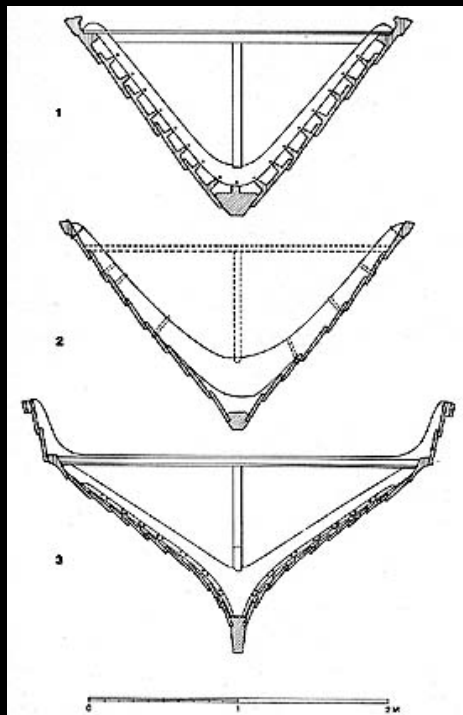
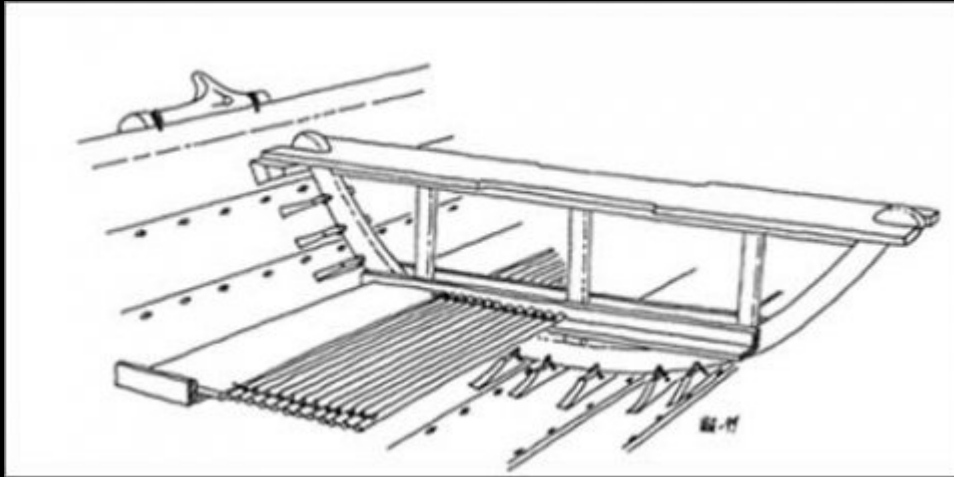
Clinker Construction

Shell Construction

NYDAM SHIP, ca. 350-400 A.D., 79 feet, Crew 30

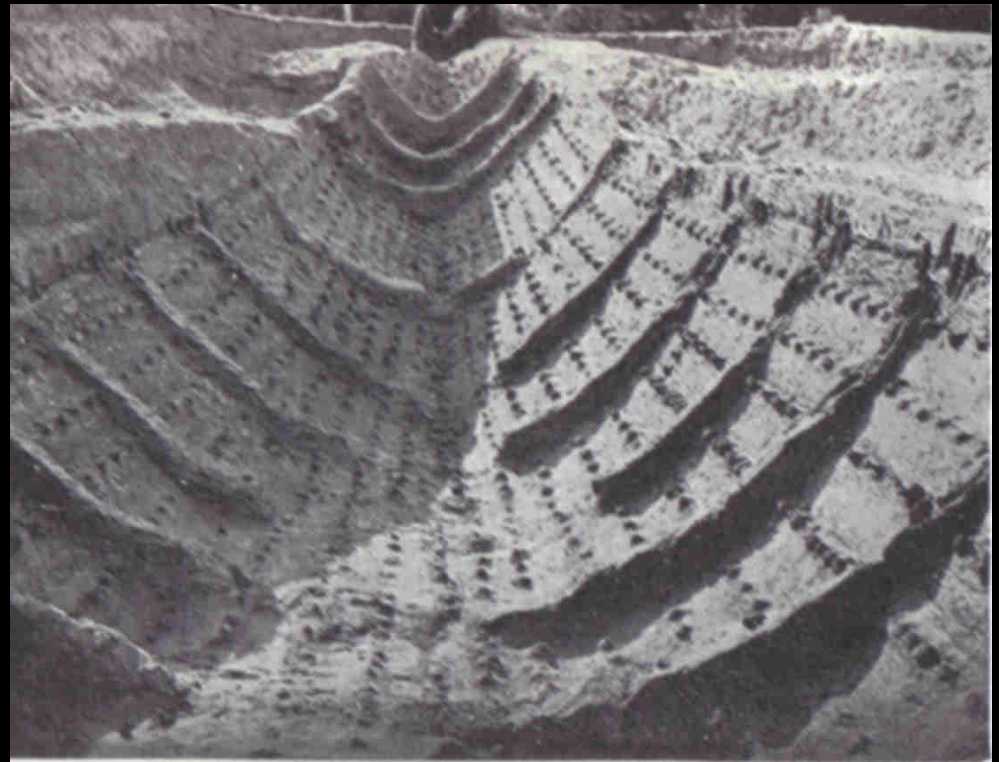


NYDAM SHIP: Clinker Construction



SUTTON HOO, ENGLAND, CENOTAPH, ca. 625

75 feet in length; crew 40



SUTTON HOO SHIP: RECONSTRUCTION



SUTTON HOO : CENTOTAPH OF KING RAEDWALD (ca. 616-626) OF EAST ANGLIA



KVALSUND SHIP, ca. 700 A.D. Length 60 feet, crew 24



KVALSUND SHIP, ca. 700 A.D: RECONSTRUCTION



KVALSUND SHIP, ca. 700 A.D.: RUDDER AND KEEL





OSEBERG SHIP
VESTFOLD, NORWAY
Burial of Queen Asa,
ca. 834

OSEBERG SHIP (KARVEN), ca. 834 A.D., 71 x 16.5 feet, crew 30



OSEBERG SHIP, ca. 834 A.D.



OSEBERG SHIP, ca. 834 A.D.



“Academician Style,” Animal Head Post



Buckle, cloisonné enamel

OSEBERG SHIP, ca. 834 A.D.



OSEBERG SHIP, Burial Tapestry

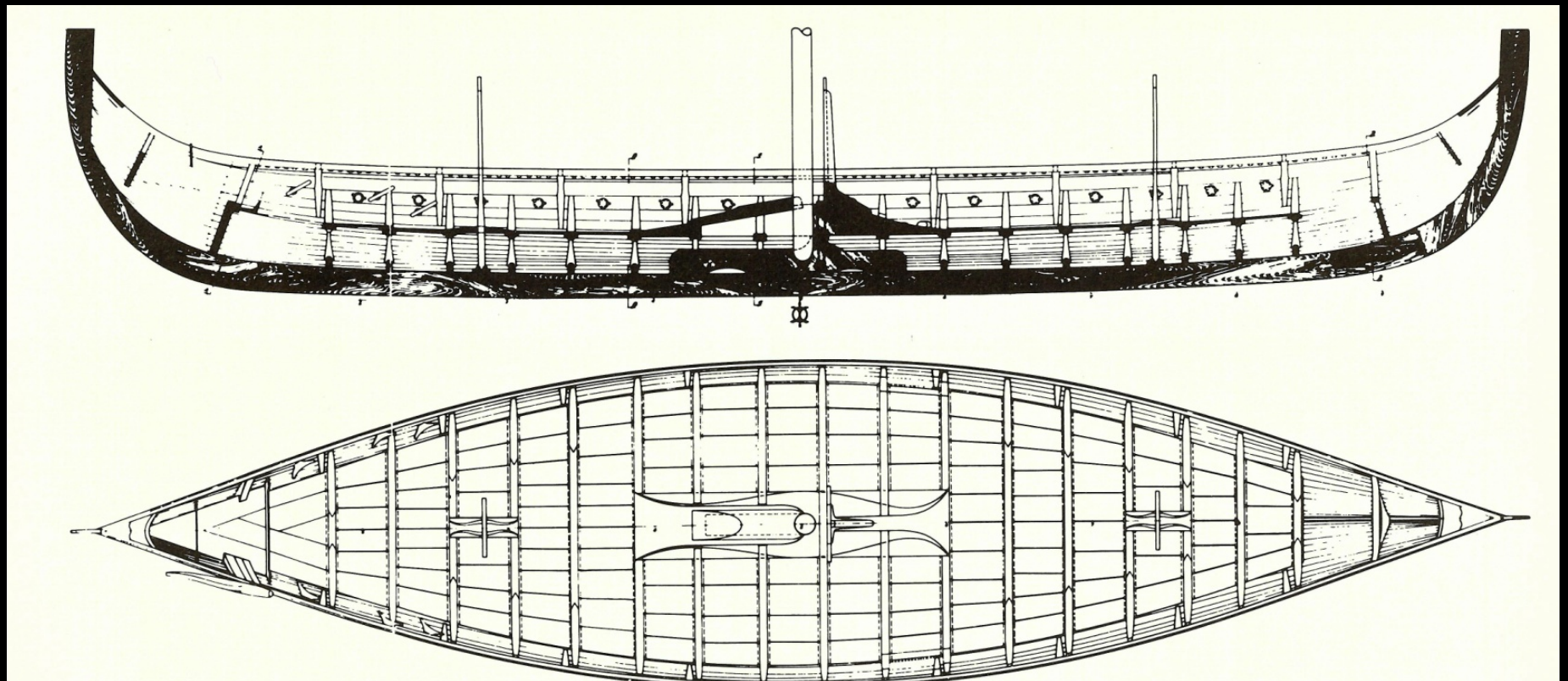


GOKSTAD, WARSHIP, NORWAY, ca. 900

76.5 x 17 feet; crew 32

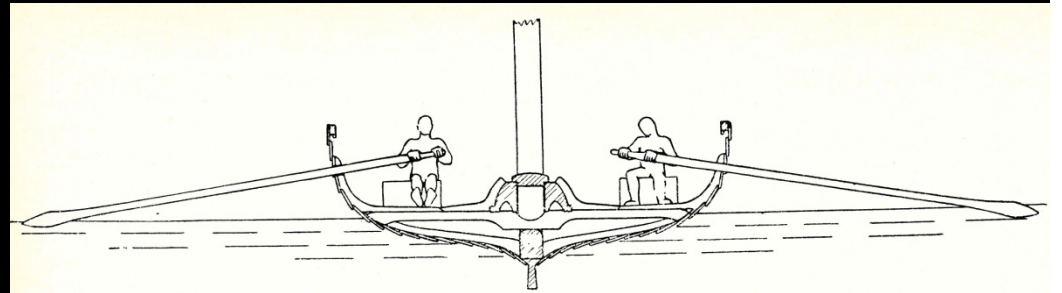


GOKSTAD SHIP, Plan and cut-away, ca. 900





GOKSTAD SHIP, Oars, ca. 900



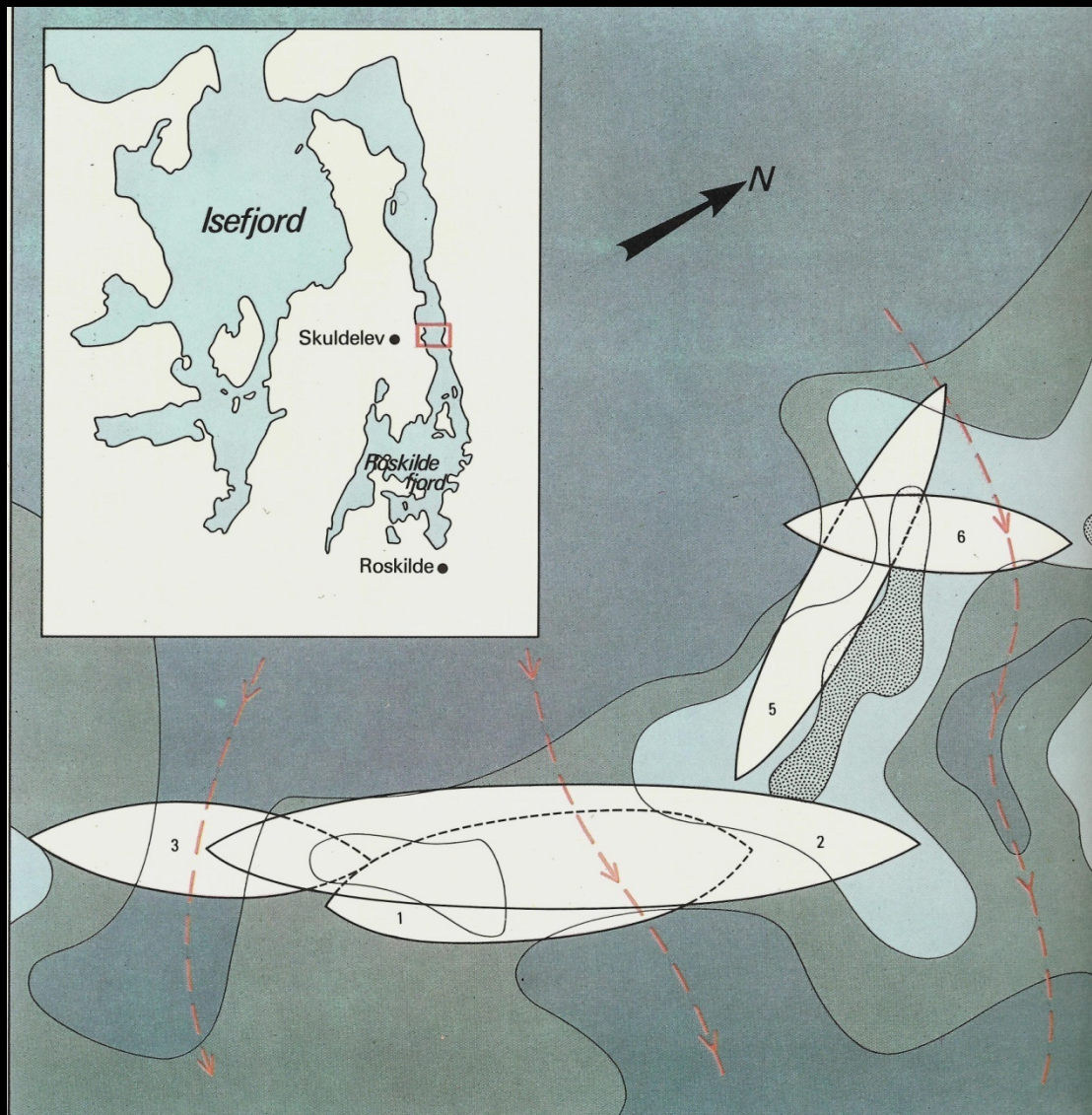
**SKULDELEV SHIPS,
DENMARK, ca. 975-1000 A.D.**

**Ship 2/5: Longship
92 x 14.75 feet**

**Ship 1: Knarr (ocean
cargo ship)
63.5 x 15 feet**

**Ship 4: coastal trader
43.25 x 10.5 feet**

**Ship 6: ferry or fishing
ship
39.5 x 8.25 feet**



SKULDELEV SHIP 2, LONGSHIP, 975-1000 A.D.





**SKULDELEV
SHIP 1**

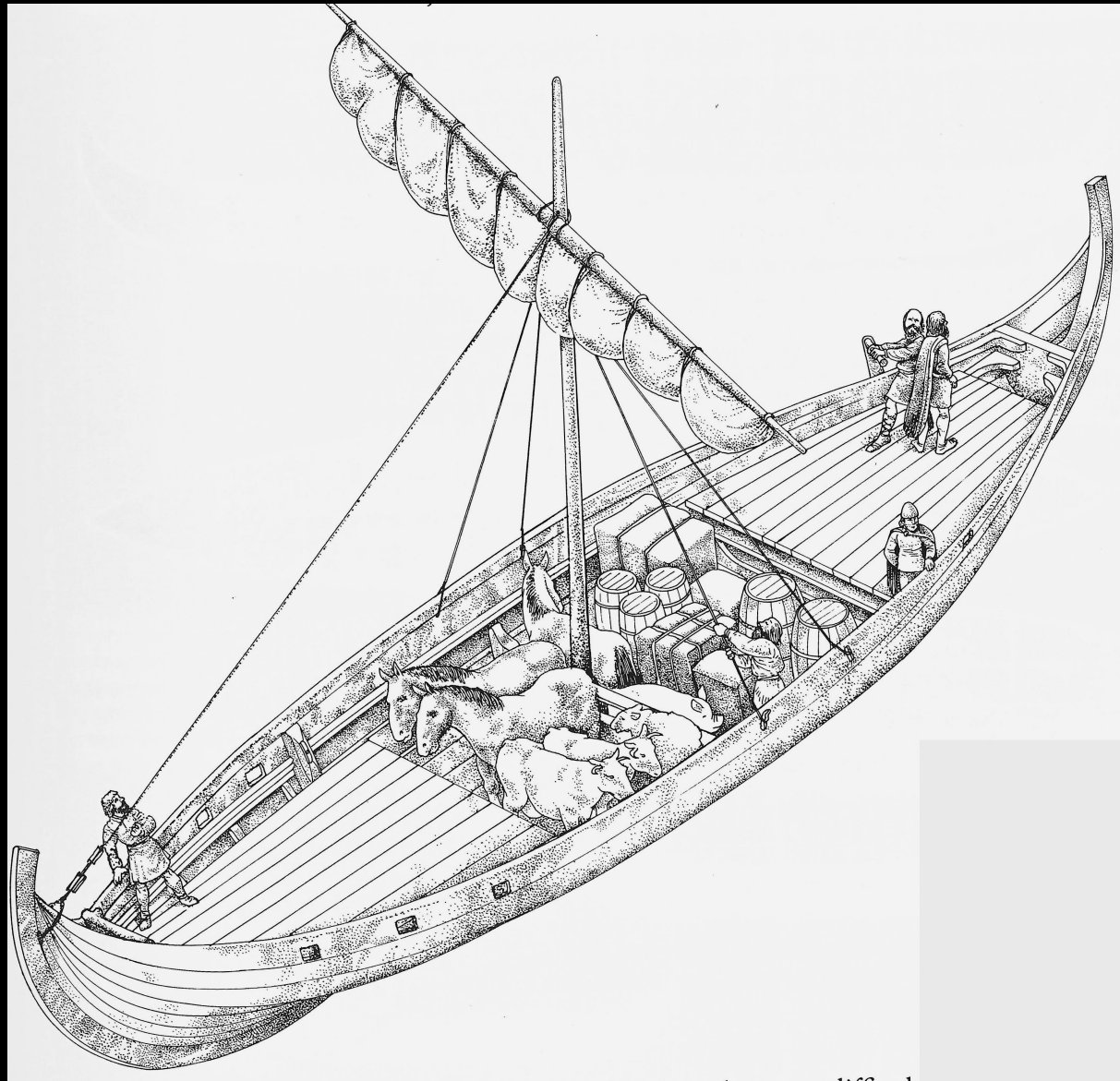
Knarr

975-1000 A.D.

**SKULDELEV
SHIP 1**

Knarr

975-1000 A.D.



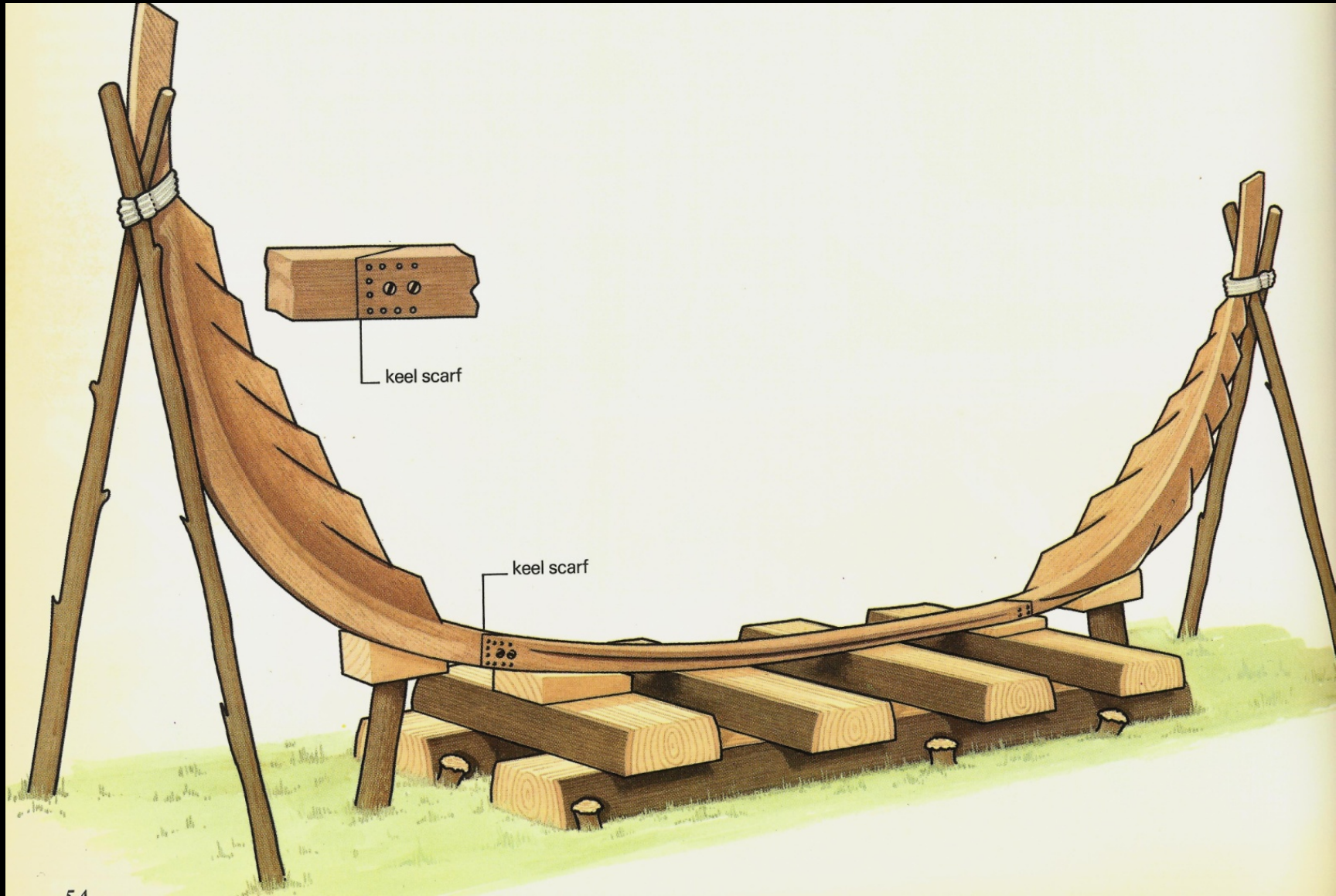
SHIP CONSTRUCTION, Bayeux Tapestry, 1066-1076



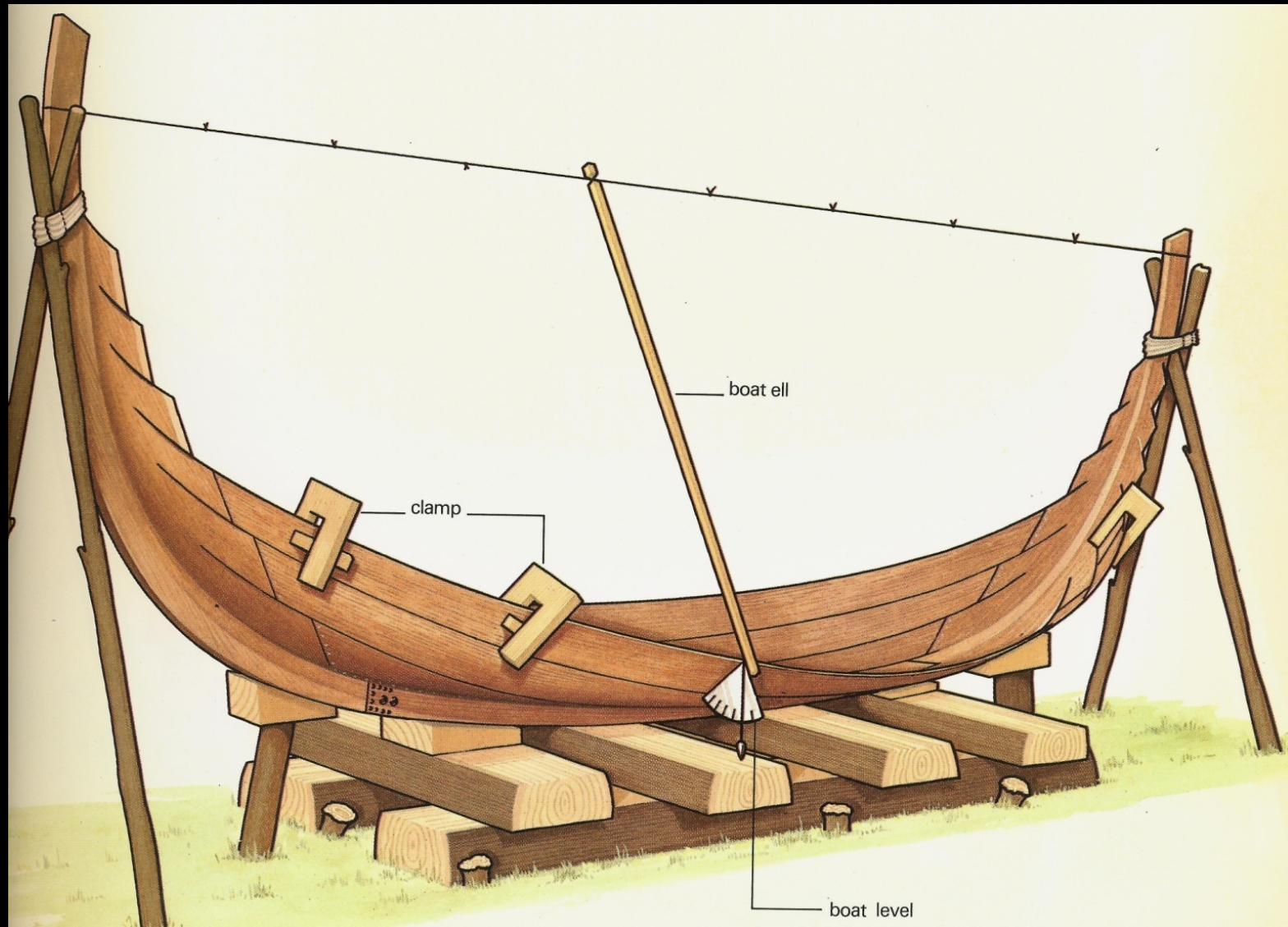


**VIKING AGE TOOLS
FOR SHIPBUILDING**

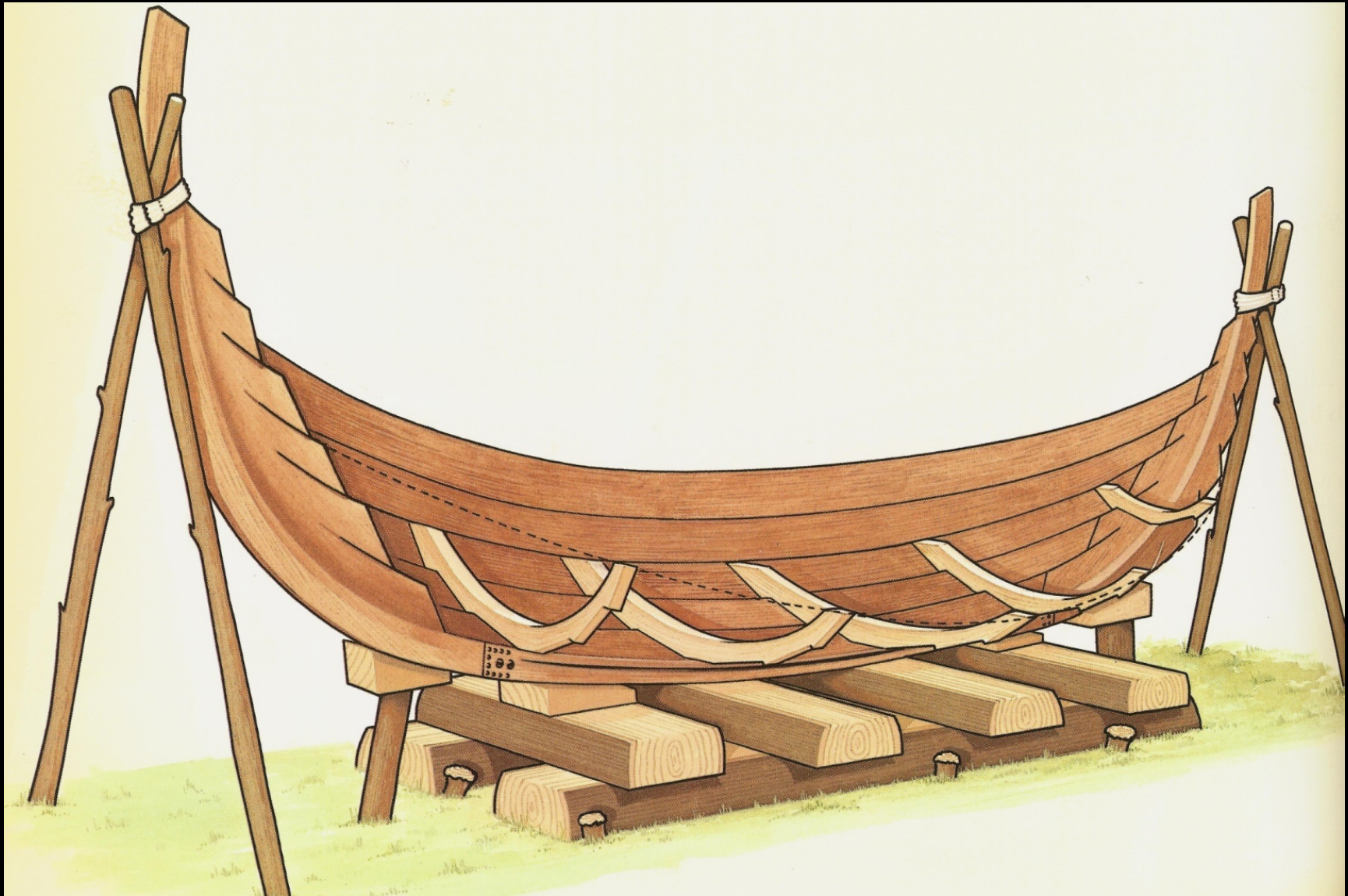
CONSTRUCTION, Phase 1



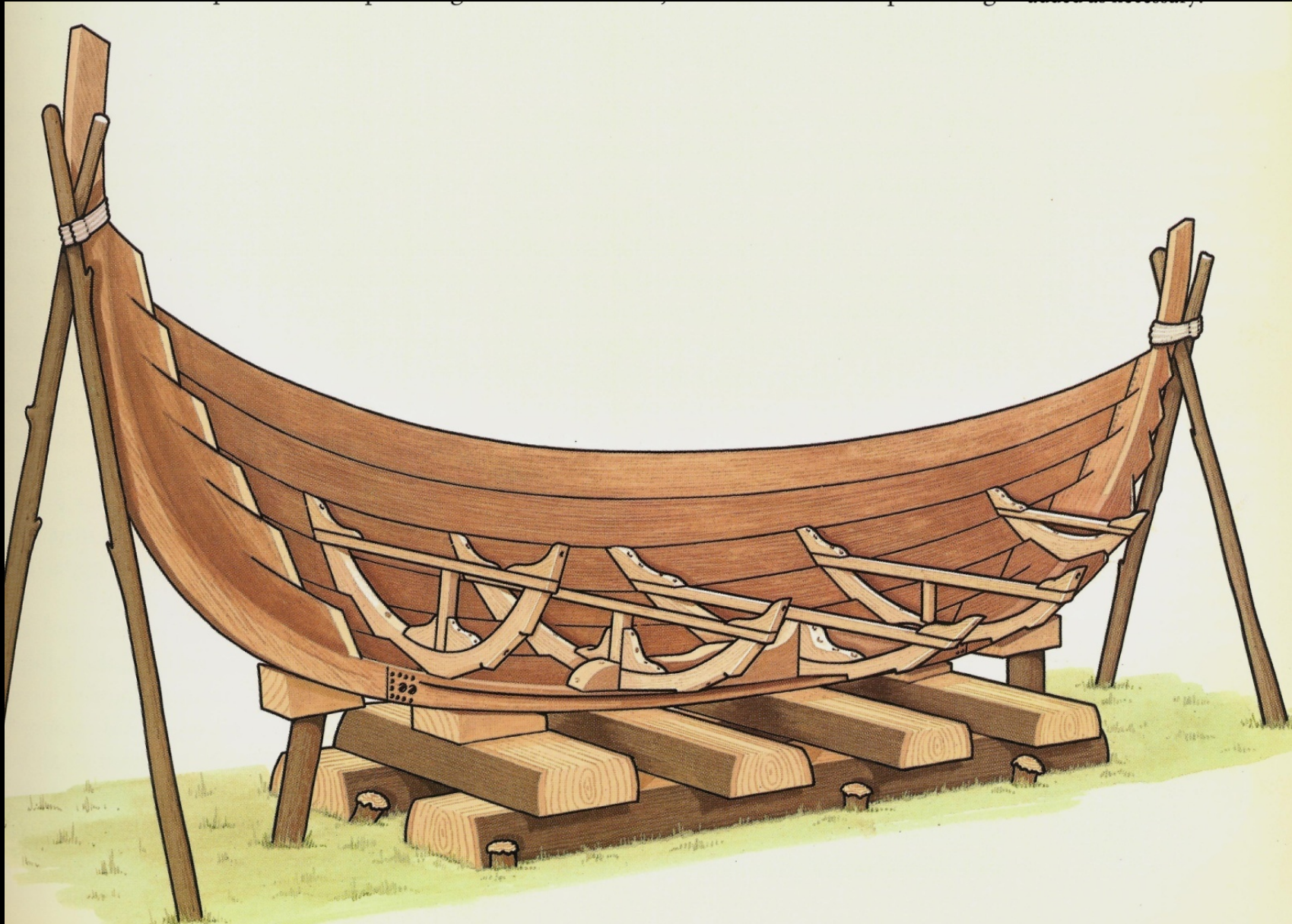
CONSTRUCTION: Phase 2



CONSTRUCTION, Phase 3



CONSTRUCTION, Phase 4





Ribs and Cross Beams

GOKSTAD SHIP, ca 900

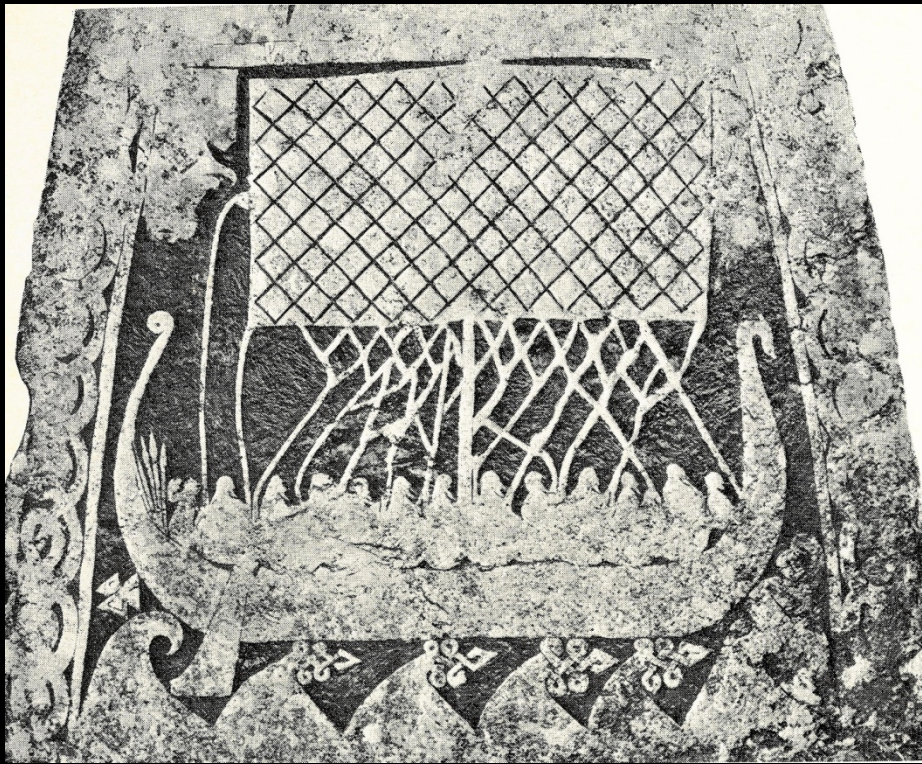


Mast hold attached to keelson



SAILS AND RIGGING

Silver Penny, Birka,
Sweden, ca. 850-880



Stone Relief, Hejnum,
Gotland, 700-800 A.D.

SHIPS UNDER SAIL, Bayeux Tapestry, 1066-1076



LANDING SHIPS, Bayeux Tapestry, 1066-1076



Ships under Sail: Gokstad Replica, 1893





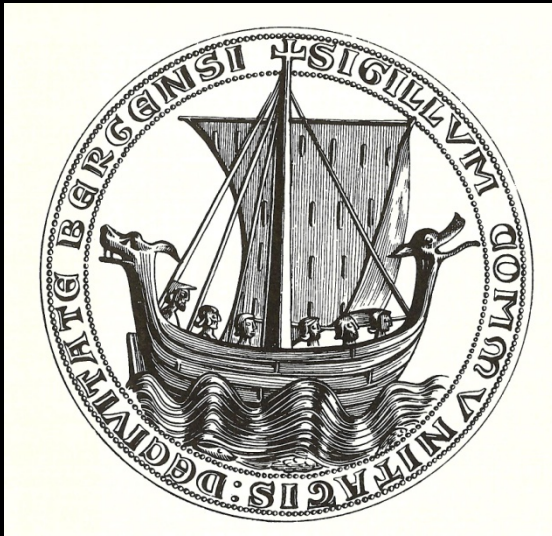
Ships under Sail
Skuldelev 2: Longship



Skuldelev 1: Knarr

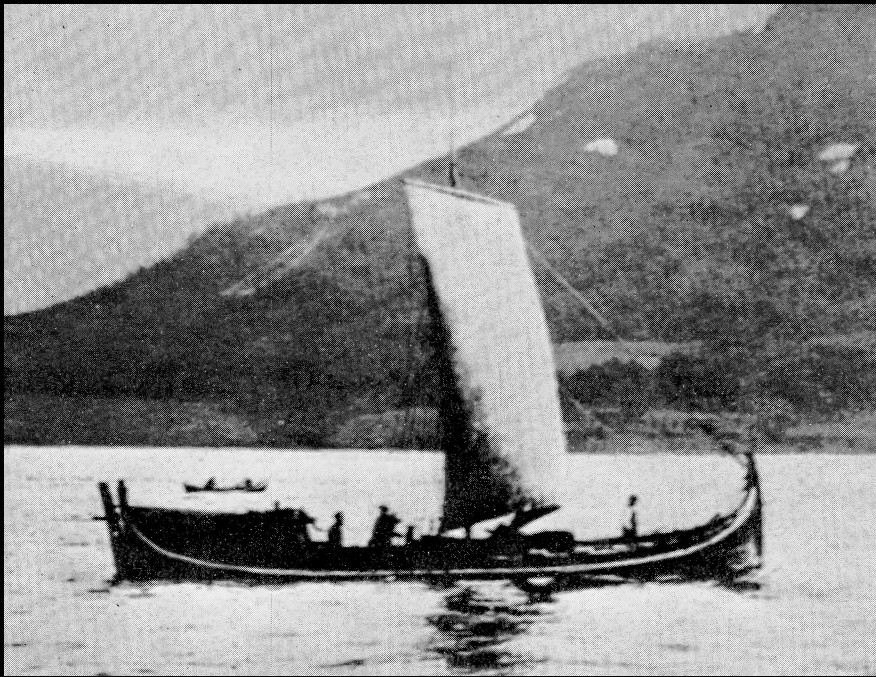
**GOKSTAD STYLE SHIP UNDER SAIL
HISTORY CHANNEL "VIKINGS" (2103)**





VIKING LEGACY

Seal of Bergen, Knarr,
1250-1300

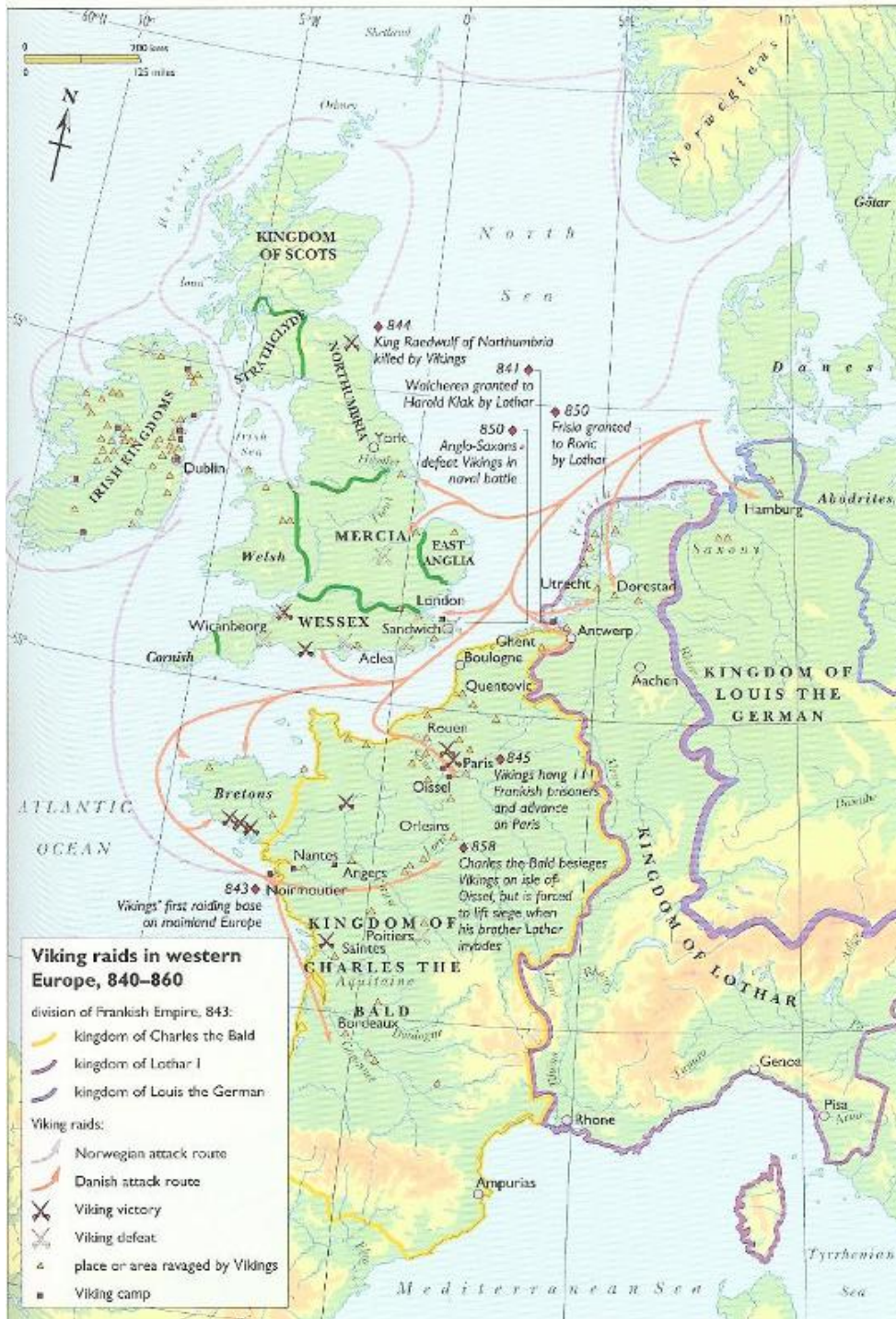


Norwegian Coastal
Ship, 1875-1900

VIKING ATTACK ON PARIS EASTER, March 28, 845

Ragnar Lodbrok
Charles the Bald (840-876)

Oslo fjord to Seine 900 miles
Rouen to Paris 200 miles





HARALD FINEHAIR (870-932) BATTLE OF HAFRSFJORD, 880

Thorbjorn Hornklofi
Hrafsmal (Speech of Raven)

Snorri Sturluson (1179-1242)
Heimskringla Saga



Memorial 1983; near Stavanger