#### Mammals of the Arctic National Wildlife Refuge: Skull Box Indentification Key

Skull box	1	Sporrahoo hom	
SKUII DUX		Snowshoe hard	-

Skull box 2 Wolverine

Skull box 3 Arctic ground squirrel

Skull box 4 Lynx

Skull box 5 Caribou

Skull box 6 Grizzly bear

Skull box 7 Weasel (Ermine)

Skull box 8 Gray wolf

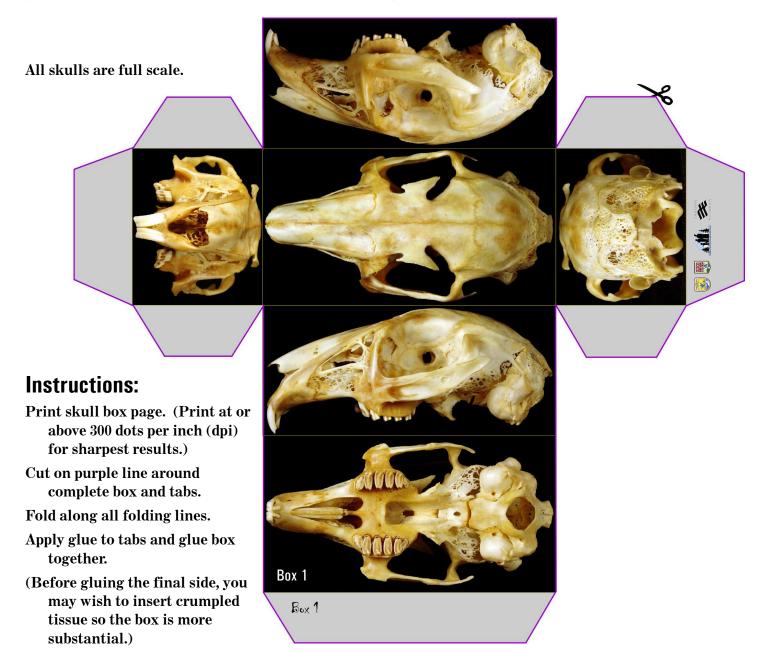
Skull box 9 Collared lemming

Skull box 10 Red fox

All skulls are full scale.

#### Mammals of the Arctic National Wildlife Refuge: Skull Box 1

(See Skull Box identification sheet for skull identities.)



#### Mammals of the Arctic National Wildlife Refuge: Skull Box 2\* - Instructions

(See Skull Box identification sheet for skull identities.) All skulls are full scale.

#### **Instructions:**

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Cut on purple line around all box sections and tabs.

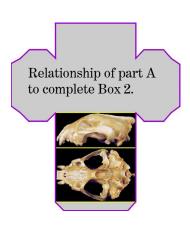
Fold along all folding lines.

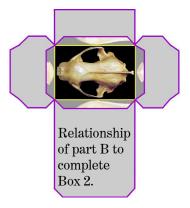
Lay box sections on a flat surface to make gluing easier.

In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)

When all the sections of the box are glued together, apply glue to the gray tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)



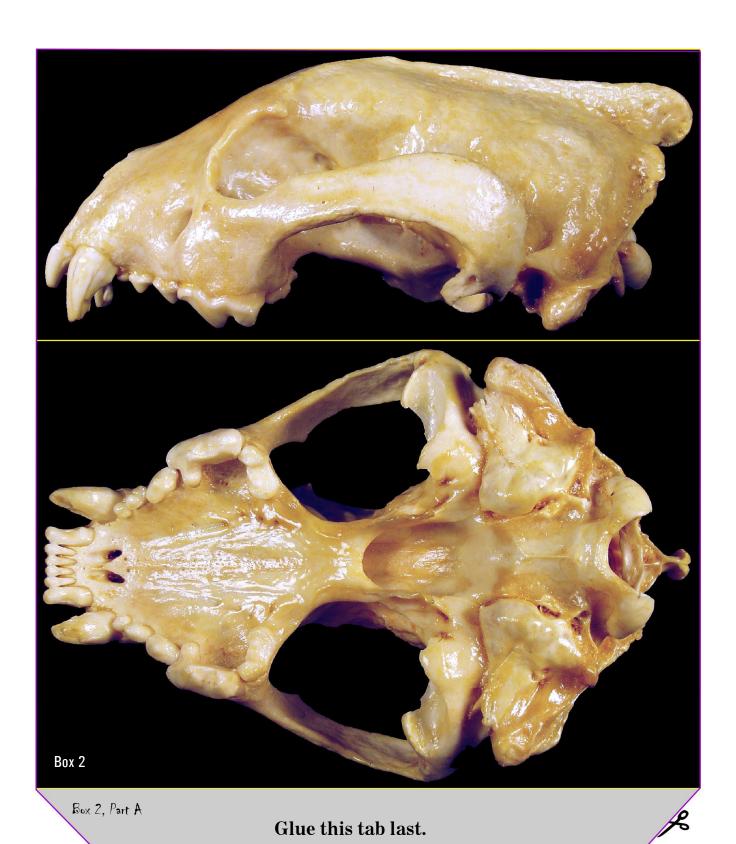


[This skull was varnished, so it has an unusual glossy, yellow finish.]

These skull boxes were created by the U.S. Fish and Wildlife Service with assistance from the Fairbanks North Star Borough School District and Toyota USA Foundation. Use of these skull boxes by educators for classroom and field purposes is authorized and encouraged. All other uses, please contact Cathy Curby at <arctic\_refuge@fws.gov>.

\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

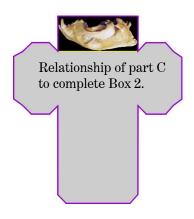
### Mammals of the Arctic National Wildlife Refuge: Skull Box 2\* - Part A



### Mammals of the Arctic National Wildlife Refuge: Skull Box 2\* - Part B



#### Mammals of the Arctic National Wildlife Refuge: Skull Box 2\* - Part C





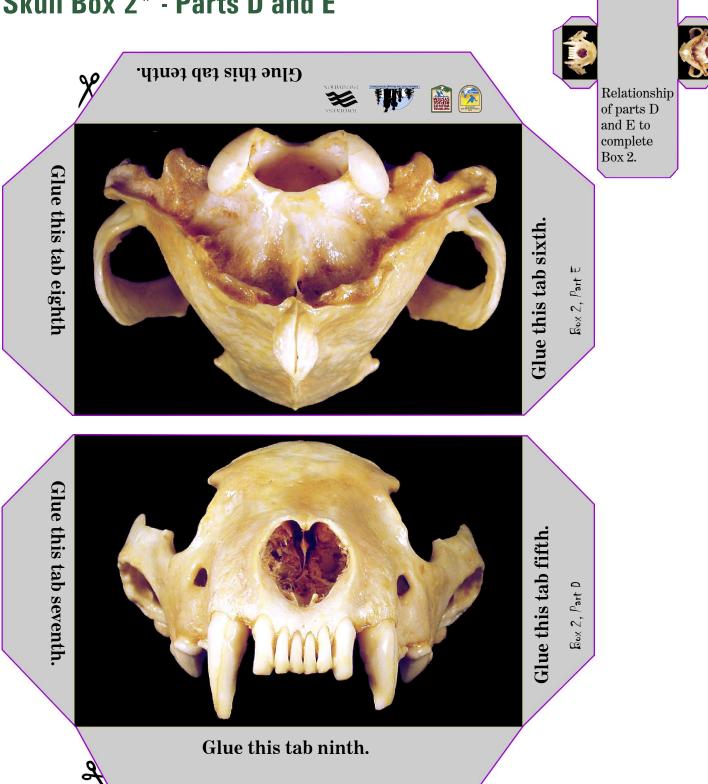
Box 2, Part C

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\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

Mammals of the Arctic National Wildlife Refuge:

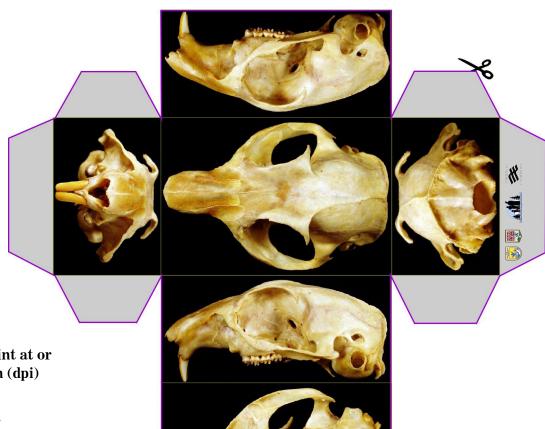




#### Mammals of the Arctic National Wildlife Refuge: Skull Box 3\*

(See Skull Box identification sheet for skull identities.)

All skulls are full scale.



#### **Instructions:**

Print skull box page. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Cut on purple line around complete box and tabs.

Fold along all folding lines.

Apply glue to tabs and glue box together.

(Before gluing the final side, you may wish to insert crumpled tissue so the box is more substantial.)

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Box 3

Box 3

\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

#### Mammals of the Arctic National Wildlife Refuge:

Skull Box 4 - Part A

(See Skull Box identification sheet for skull identities.)

#### **Instructions:**

Print skull box pages. (Print at or above 150 dots per inch (dpi) for sharpest results.)

Cut on purple line around all box sections and tabs.

Fold along all folding lines.

Lay box sections on a flat surface to make gluing easier.

In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)

When all the sections of the box are glued together, apply glue to the gray tabs, in the order indicated, to glue together the completed box.

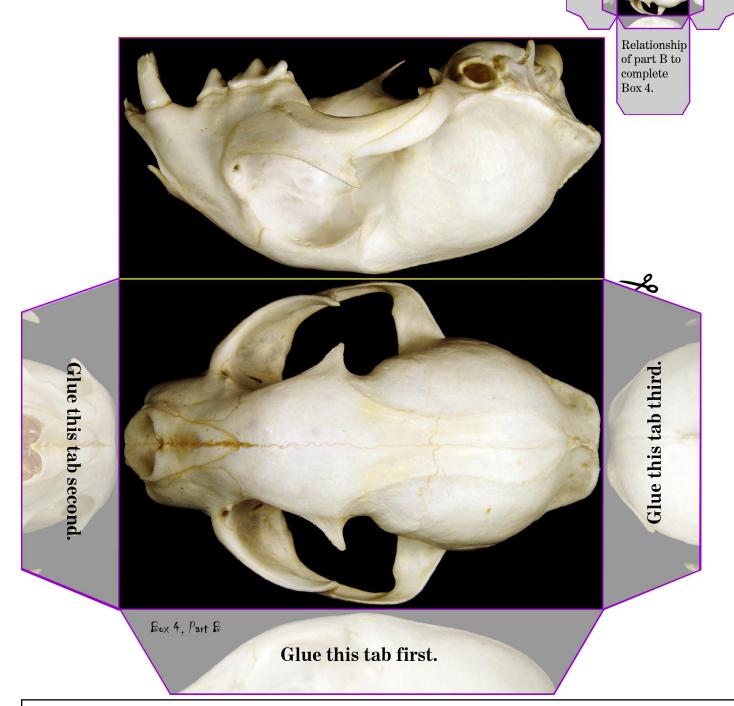
(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)





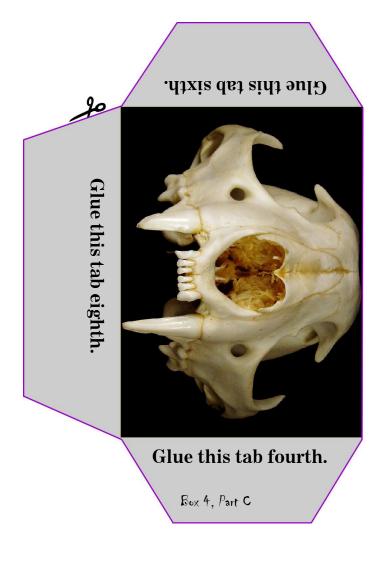
All skulls are full scale.

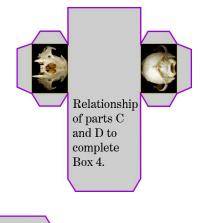
Mammals of the Arctic National Wildlife Refuge: Skull Box 4 - Part B

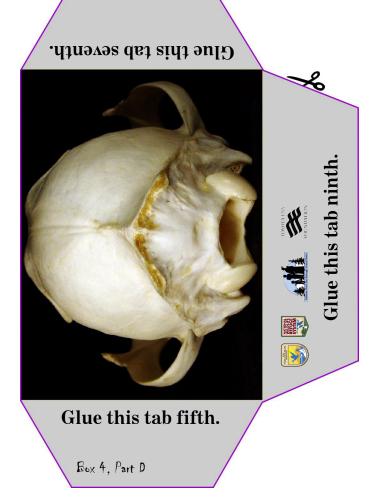


#### Mammals of the Arctic National Wildlife Refuge:

Skull Box 4 - Parts C and D







#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5\* - Instructions

(See Skull Box identification sheet for skull identities.) All skulls are full scale.

#### **Instructions:**

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.

Print on card stock to make a sturdier box.)

Working on one side of the box at a time, cut around the outside of each section and tabs.

In the order indicated on the tabs, apply glue to the *green* photo-tabs, then glue these tabs under their adjacent sections. Repeat with the *yellow* photo-tabs to complete the box side.

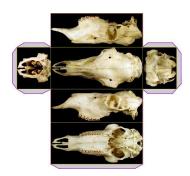
When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)



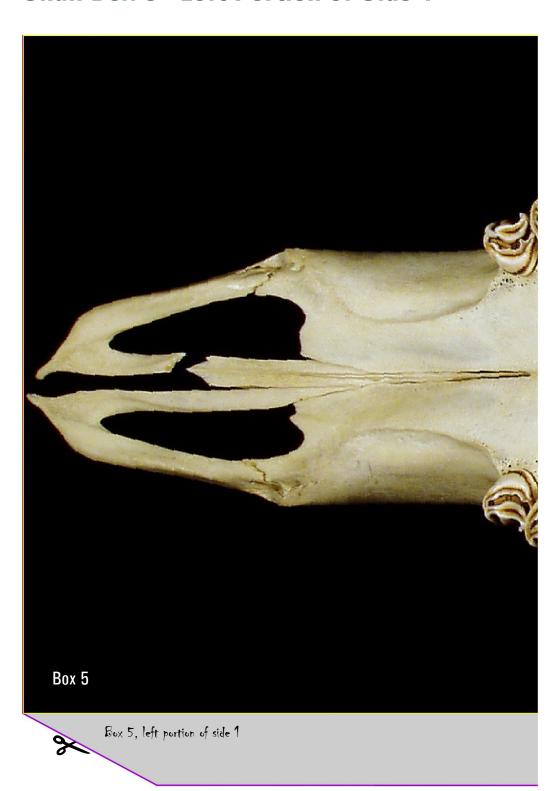
Relationship of all sides for Box 5.



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\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Left Portion of Side 1



All skulls are full scale.

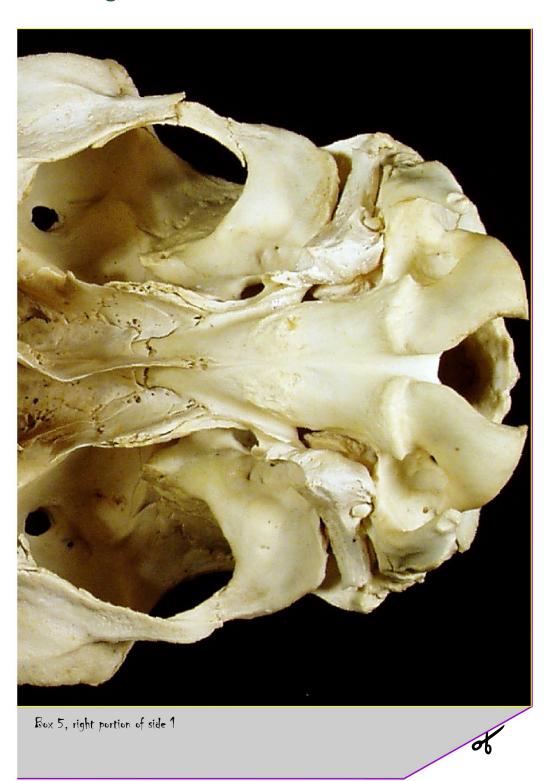


#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Middle Portion of Side 1

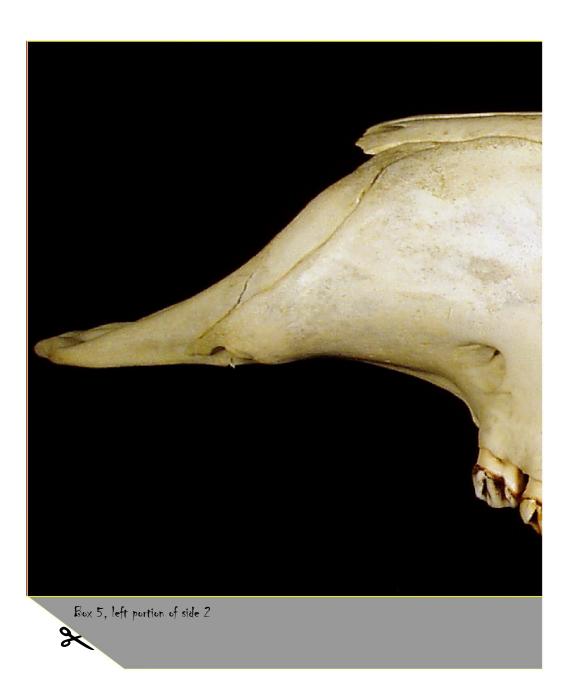


# Caribou Mysteries science sleuths & detective math

## Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 1



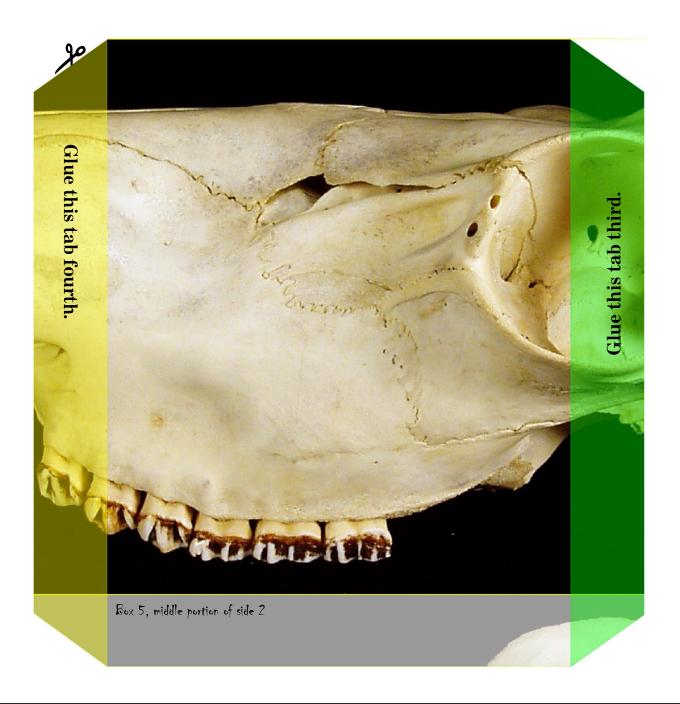
#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Left Portion of Side 2



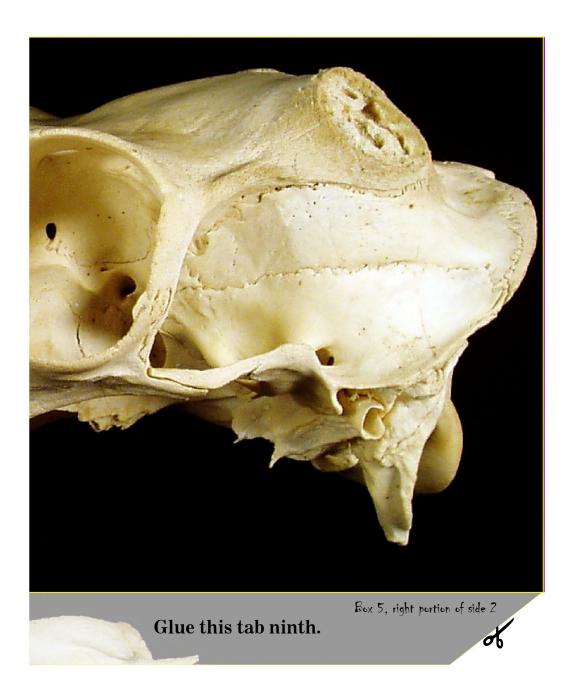
Relationship of side 1 to completed box 5.



#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Middle Portion of Side 2



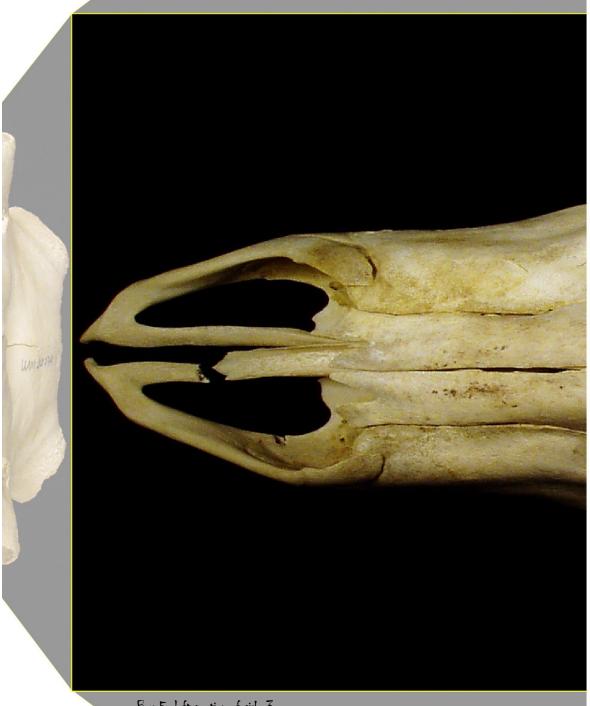
### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 2



### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Left Portion of Side 3

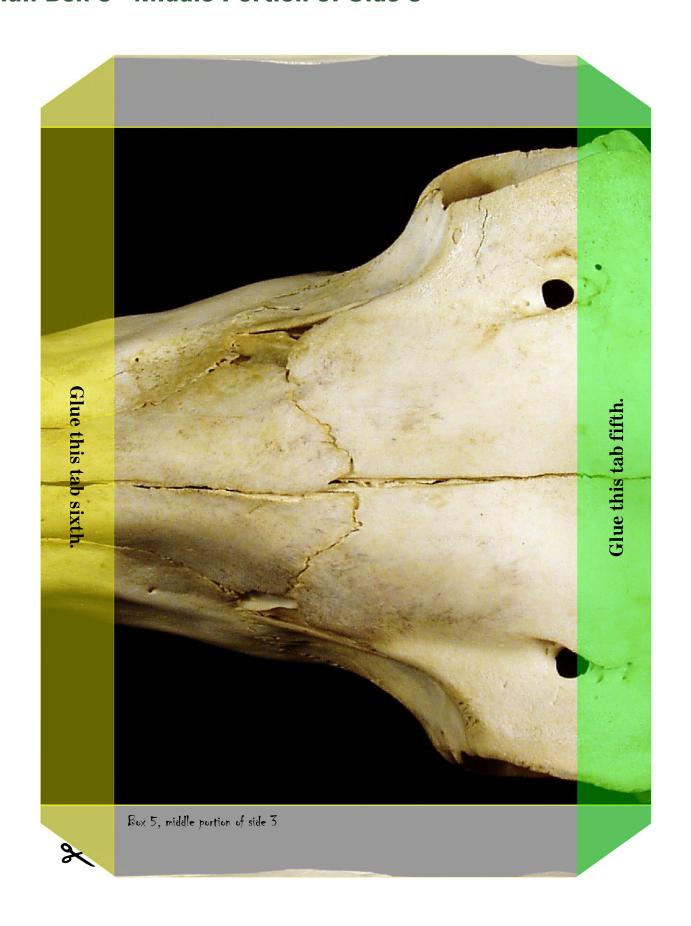


Relationship of side 3 to completed box 5.

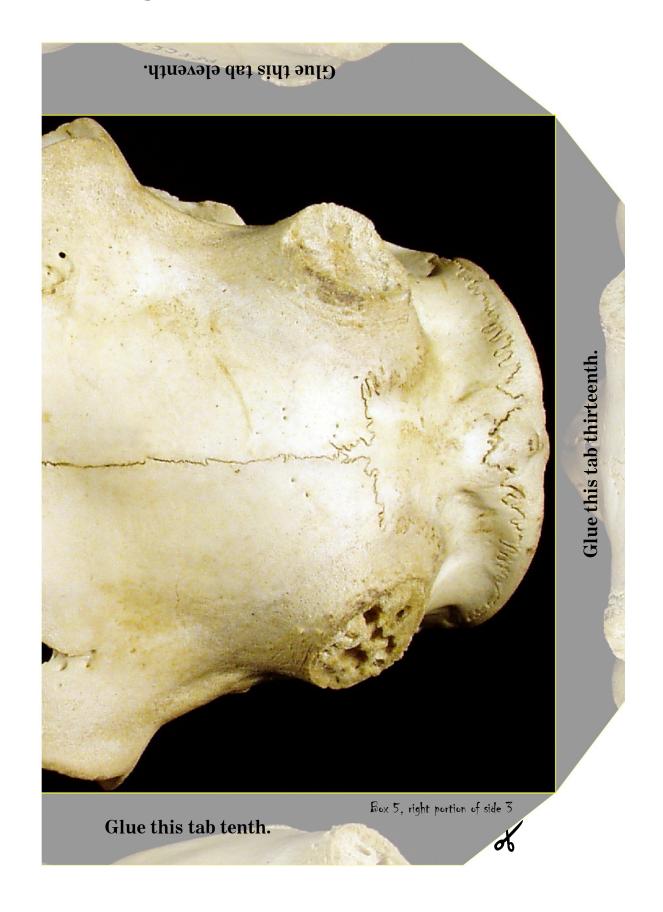


Box 5, left portion of side 3

### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Middle Portion of Side 3



## Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 3

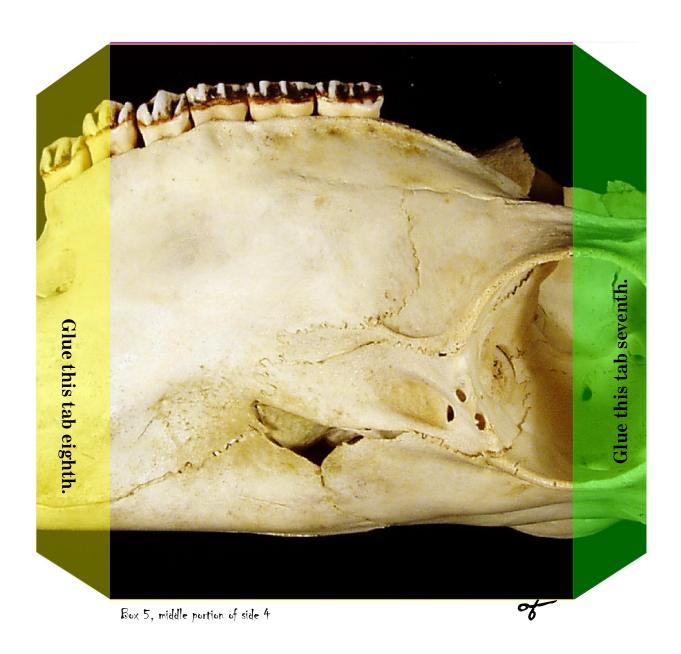


#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Left Portion of Side 4

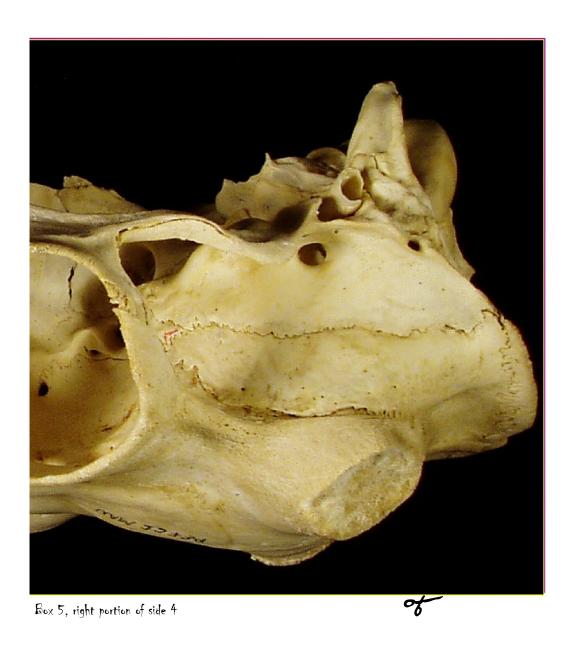


Relationship of side 4 to completed box 5.

#### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Middle Portion of Side 4



### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Right Portion of Side 4



### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Side 5



### Mammals of the Arctic National Wildlife Refuge: Skull Box 5 - Side 6



#### Mammals of the Arctic National Wildlife Refuge: Skull Box 6\* - Instructions

(See Skull Box identification sheet for skull identities.)
All skulls are full scale.

#### Instructions:

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.

Print on card stock to make a sturdier box.)

Working on one side of the box at a time, cut around the outside of each section and tabs.

In the order indicated on the tabs, apply glue to the *green* photo-tabs, then glue these tabs under their adjacent sections. Repeat with the *yellow* photo-tabs to complete the box side.

When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

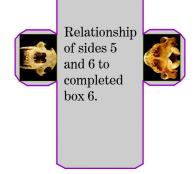
When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)



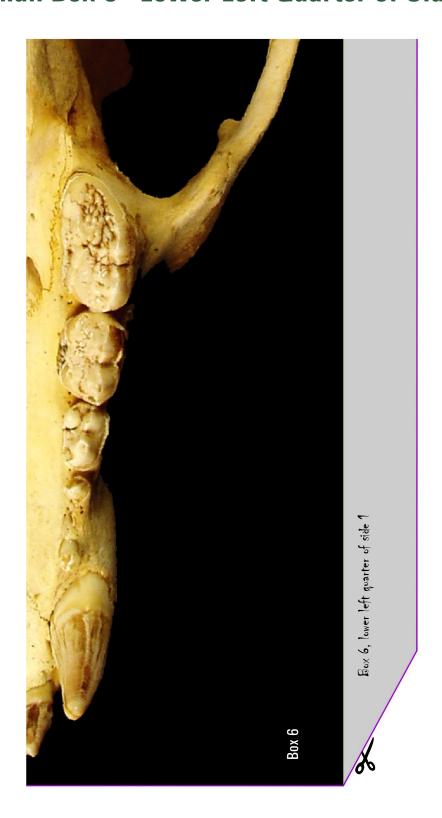
Relationship of all sides for Box 6.



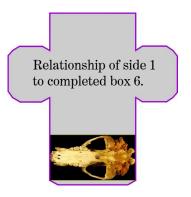
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\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

#### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Lower Left Quarter of Side 1

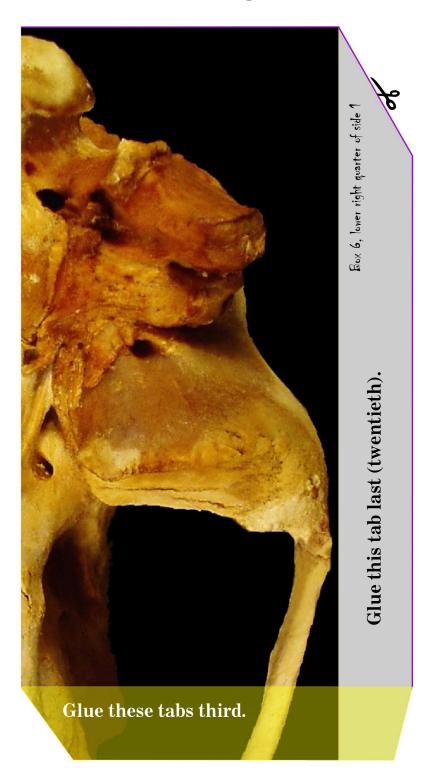


All skulls are full scale.



# Caribou Mysteries science sleuths & detective math

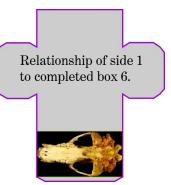
### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Lower Right Quarter of Side 1





### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Upper Left Quarter of Side 1

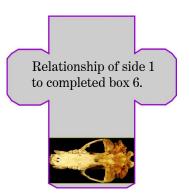




## Caribou Mysteries science sleuths & detective math

### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Upper Right Quarter of Side 1





## Caribou Mysteries

Relationship of side 2 to completed box 8.



#### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Left Part of Side 2

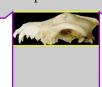


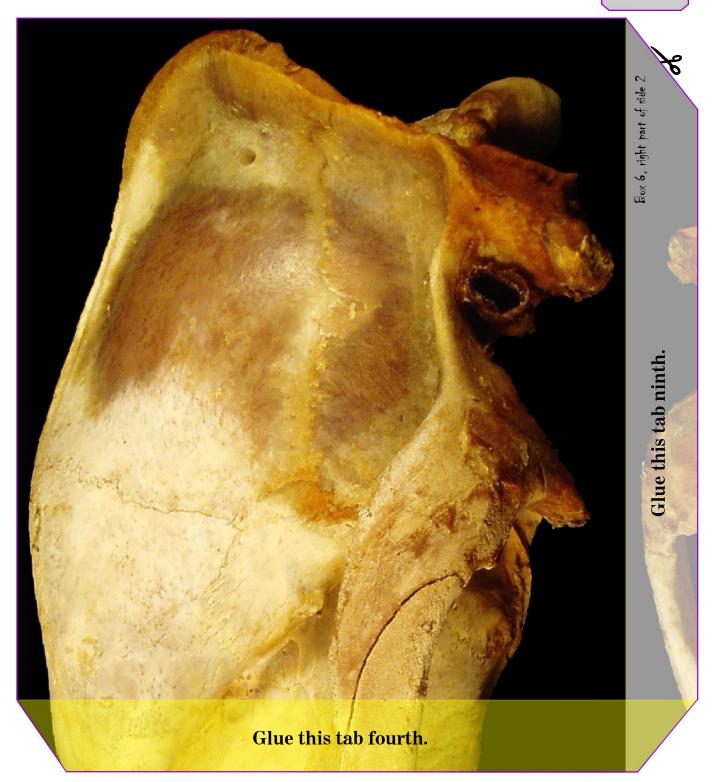
Box 6, left part of side 2

## Caribou Mysteries

Relationship of side 2 to completed box 6.

### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Right Part of Side 2

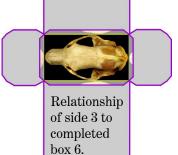




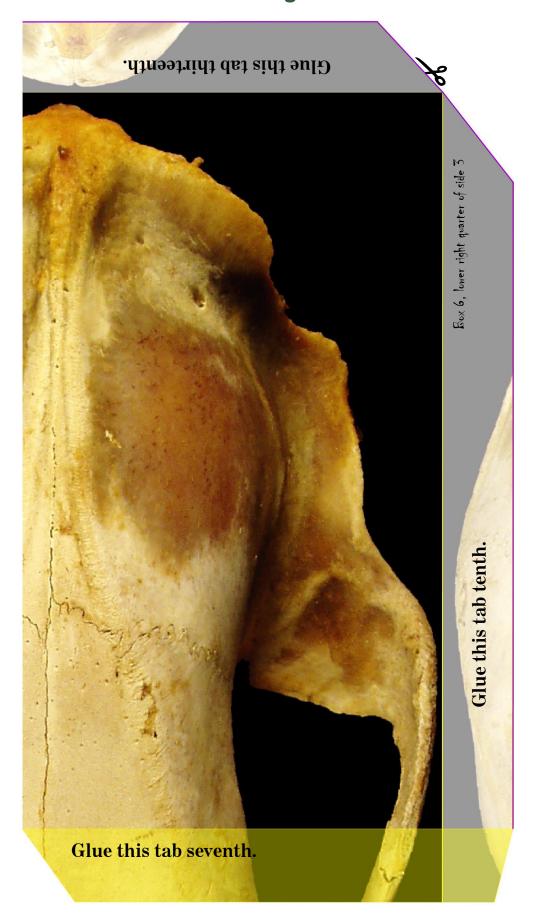
## Caribou Mysteries science sleuths & detective math

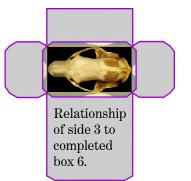
#### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Lower Left Quarter of Side 3





### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Lower Right Quarter of Side 3





## Caribou Mysteries science sleuths & detective math

### Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Upper Left Quarter of Side 3

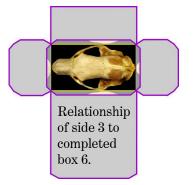




Relationship of side 3 to completed box 6.

# Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Upper Right Quarter of Side 3



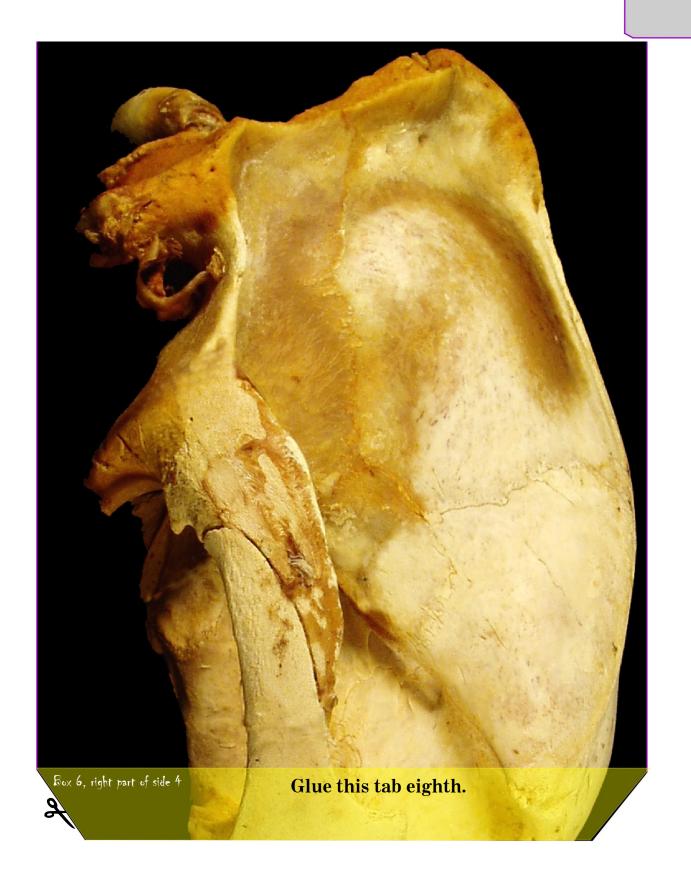


# Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Left Part of Side 4

Relationship of side 4 to completed box 6.



# Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Right Part of Side 4 Relationship of side 4 to completed box 6.



# Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Side 5

Glue this tab sisteenth.

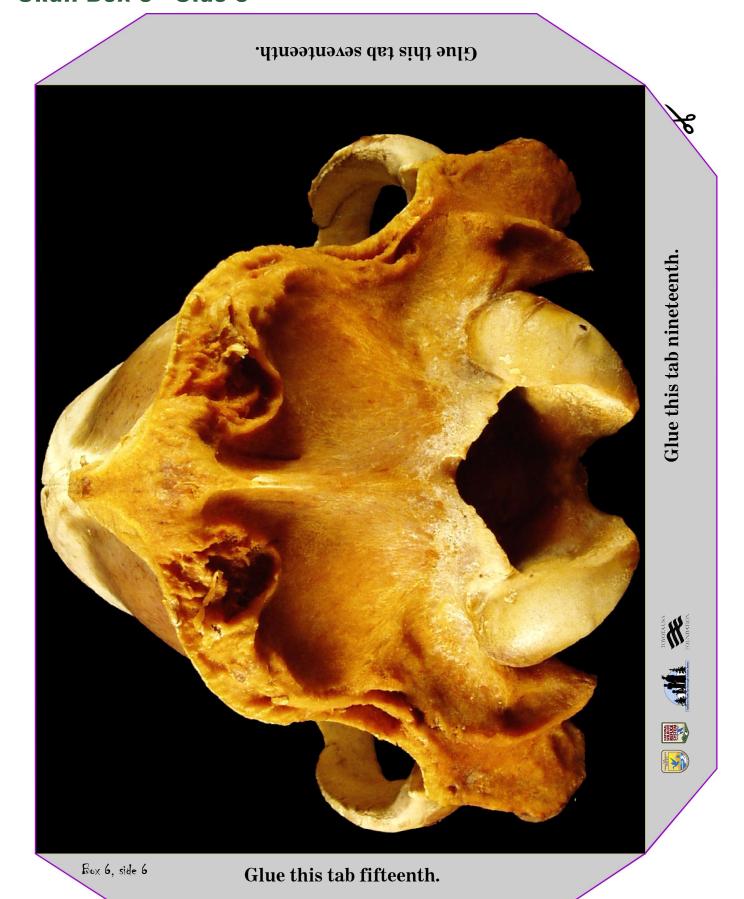
Glue this tab eighteenth.



Box 6, side 5

Glue this tab fourteenth.

# Mammals of the Arctic National Wildlife Refuge: Skull Box 6 - Side 6



## Mammals of the Arctic National Wildlife Refuge: Skull Boxes 7 and 9\*

(See Skull Box identification sheet for skull identities.)

#### **Instructions:**

Print skull box page. (Print at or above 300 dots per inch (dpi) for sharpest results.)

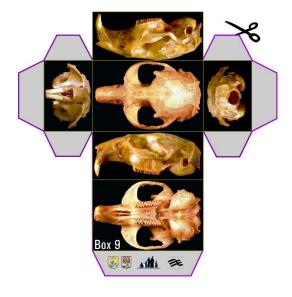
Cut on purple line around complete box and tabs.

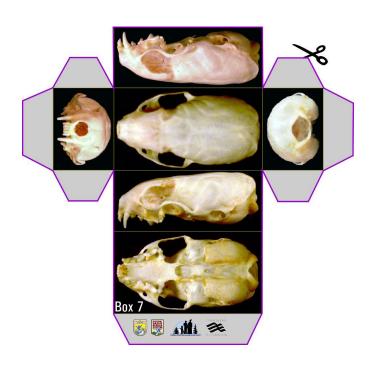
Fold along all folding lines.

Apply glue to tabs and glue box together.

(Before gluing the final side, you may wish to insert crumpled tissue so the box is more substantial.)

All skulls are full scale.





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\*Indicated skulls are from the University of Alaska-Fairbanks Museum collection.

## Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Instructions

(See Skull Box identification sheet for skull identities.)

### **Instructions:**

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Working on one side of the box at a time, cut on purple line around the sections and tabs.

In the order indicated on the tabs, apply glue to the *yellow* photo-tabs, then glue each tab under the other section of that box side.

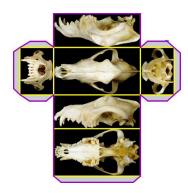
When all sides are complete, lay box sections on a flat surface to make gluing easier.

Continuing in the order indicated, apply glue to each tab, then glue that tab under the adjacent box side. (Refer to the small relationship diagrams to see how each side fits.)

When all the sections of the box are glued together, fold along all folding lines.

Apply glue to the remaining tabs, in the order indicated, to glue together the completed box.

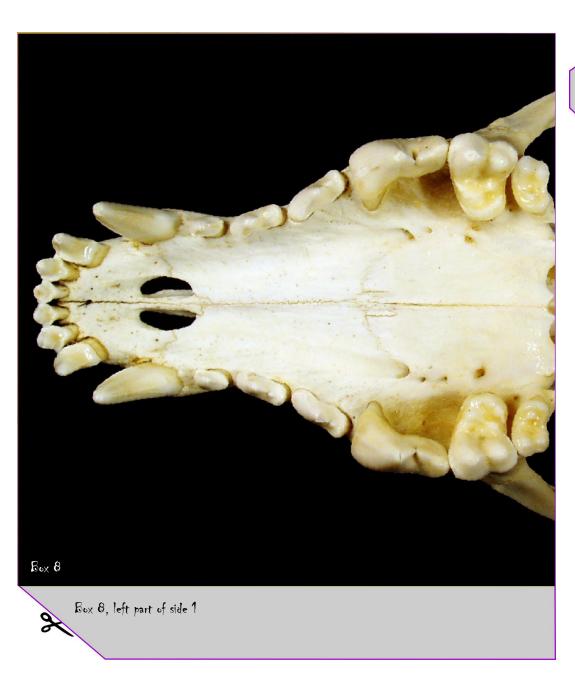
(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)



Relationship of all sides for Box 8.

# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Left Part of Side 1

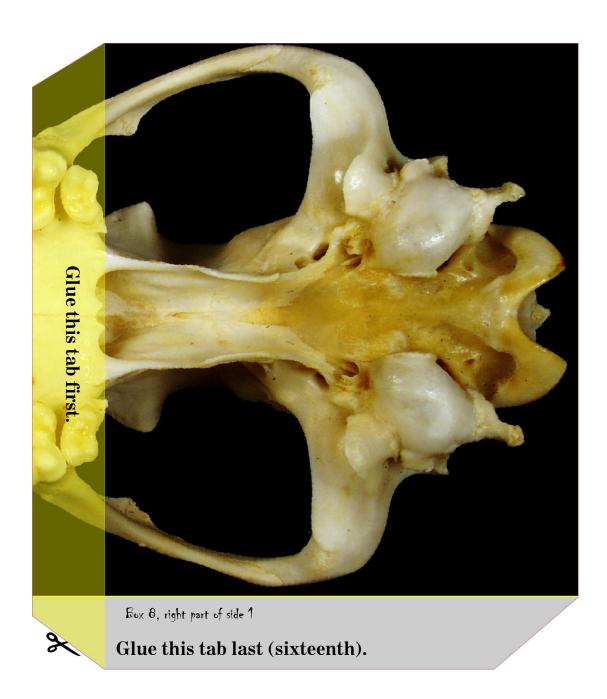
All skulls are full scale.



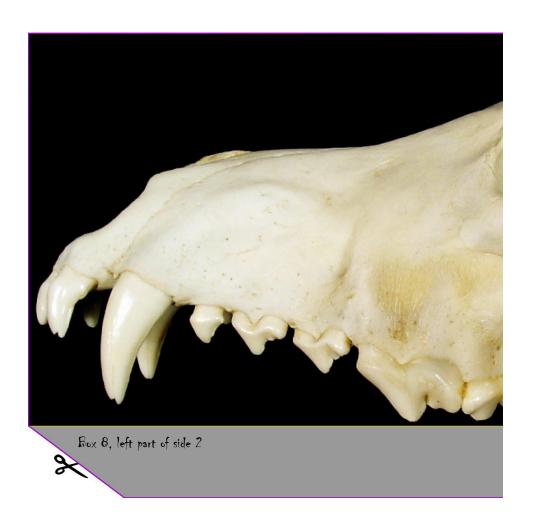
Relationship of side 1 to completed box 8.

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# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Right Part of Side 1



# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Left Part of Side 2



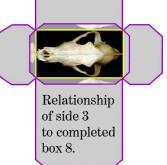
Relationship of side 2 to completed box 8.

# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Right Part of Side 2



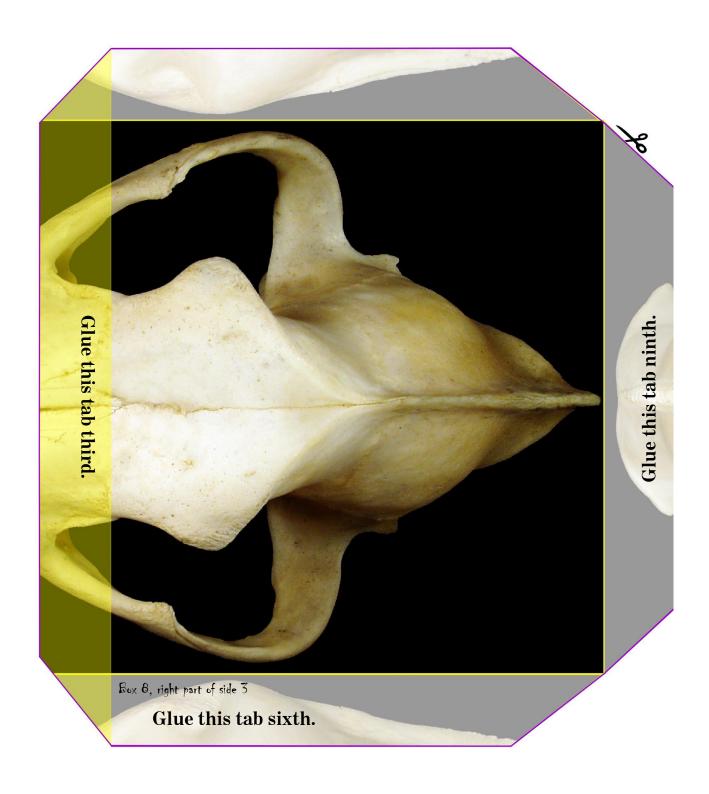
### Mammals of the Arctic National Wildlife Refuge:

Skull Box 8 - Left Part of Side 3

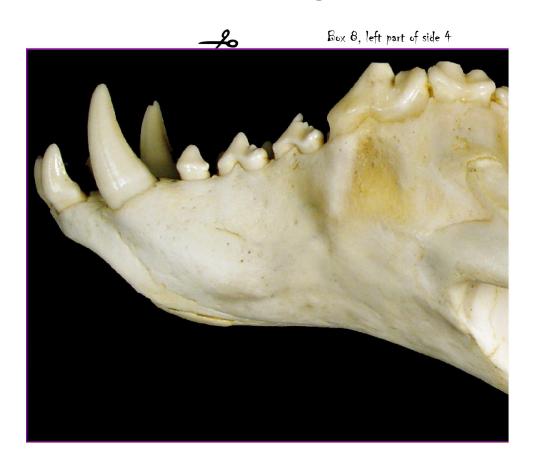


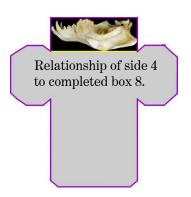


# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Right Part of Side 3



# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Left and Right Parts of Side 4







# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Side 5





Relationship of sides 5 and 6 to completed box 8.

Glue this tab tenth.

# Mammals of the Arctic National Wildlife Refuge: Skull Box 8 - Side 6



## Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Instructions

(See Skull Box identification sheet for skull identities.)

All skulls are full scale.

### **Instructions:**

Print skull box pages. (Print at or above 300 dots per inch (dpi) for sharpest results.)

Cut on purple line around all box sections and tabs.

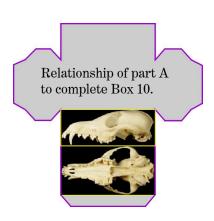
Fold along all folding lines.

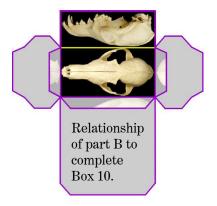
Lay box sections on a flat surface to make gluing easier.

In the order indicated on each photo-tab, apply glue to a photo-tab, then glue that tab under the matching box side. (Refer to the small relationship diagrams to see how each section fits.)

When all the sections of the box are glued together, apply glue to the gray tabs, in the order indicated, to glue together the completed box.

(Before gluing the final side, you may wish to insert crumpled paper so the box is more substantial.)

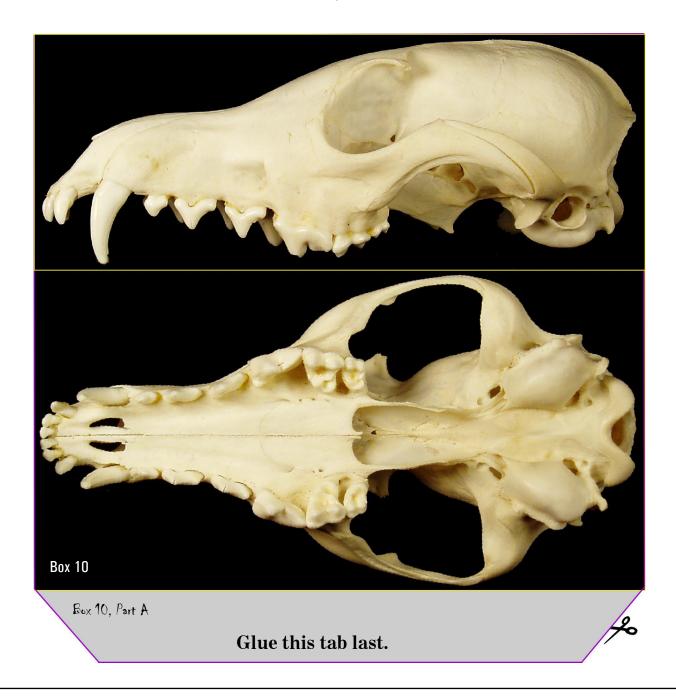




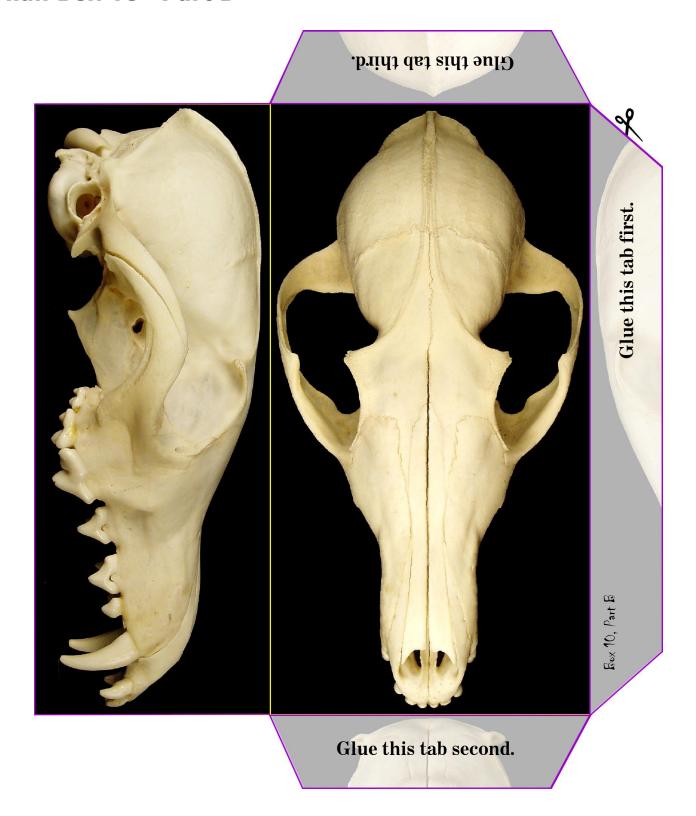
# Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Part A

(See Skull Box identification sheet for skull identities.)

All skulls are full scale.



# Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Part B



# Caribou Mysteries science sleuths & detective math

### Mammals of the Arctic National Wildlife Refuge: Skull Box 10 - Parts C and D

