

DOCUMENT RESUME

ED 196 661

SE 033 098

AUTHOR Webster, David; And Others  
 TITLE Track Picture Book. Elementary Science Study.  
 INSTITUTION Elementary Science Study, Newton, Mass.  
 SPONS AGENCY National Science Foundation, Washington, D.C.  
 REPORT NO ISBN-07-017702-3  
 PUB DATE 71  
 NOTE 82p.: For related document, see SE 033 099.  
 Photographs may not reproduce well.

EDRS PRICE MF01/PC04 Plus Postage.  
 DESCRIPTORS \*Animals; Elementary Education; \*Elementary School  
 Science; Instructional Materials; \*Outdoor  
 Activities; Science Activities; Science Course  
 Improvement Projects; \*Science Curriculum

IDENTIFIERS \*Animal Tracks

ABSTRACT

This picture book was designed to be used with an Elementary Science Study unit that provides opportunities for students in grades 4-6 to study animal tracks. Shown within this book are numerous examples of tracks, including those of tires, human beings, animal tracks, and others in various media, such as snow, sand, mud, dust, and cement. (CS)

\*\*\*\*\*  
 \* Reproductions supplied by EDRS are the best that can be made \*  
 \* from the original document. \*  
 \*\*\*\*\*

ED196661

# TRACK PICTURE BOOK

Elementary Science Study

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY.

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY

Mary L. Charles  
of the NSF

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

Webster Division, McGraw-Hill Book Company

New York • St. Louis • San Francisco • Dallas • London • Sydney • Toronto

SE 033 048

Copyright © 1971, 1968 by Education Development Center, Inc. All Rights Reserved. Printed in the United States of America. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the publisher.

Except for the rights to material reserved by others, the publisher and the copyright owner hereby grant permission to domestic persons of the United States and Canada for use of this work without charge in the English language in the United States and Canada after January 1, 1976, provided that publications incorporating materials covered by these copyrights contain an acknowledgment of them and a statement that the publication is not endorsed by the copyright owner. For conditions of use and permission to use materials contained herein for foreign publication or publications in other than the English language, apply to the copyright owner.

ISBN 07-017702-3

## PREFACE

The Elementary Science Study is one of many curriculum development programs in the fields of science, social studies, and mathematics under preparation at Education Development Center, Inc. EDC (a private nonprofit organization, incorporating the Institute for Educational Innovation and Educational Services Incorporated) began in 1958 to develop new ideas and methods for improving the content and process of education.

ESS has been supported primarily by grants from the National Science Foundation. Development of materials for teaching science from kindergarten through eighth grade started on a small scale in 1960. The work of the project has since involved more than a hundred educators in the conception and design of its units of study. Among the staff have been scientists, engineers, mathematicians, and teachers experienced in working with students of all ages from kindergarten through college.

Equipment, films, and printed materials are produced with the help of staff specialists, as well as of the film and photography studios, the design laboratory, and the production shops of EDC. At every stage of development, ideas and materials are taken into actual classrooms, where children help shape the form and content of each unit before it is released to schools everywhere.

## ACKNOWLEDGMENTS

The idea for a unit on tracks originated during my work with desert animals in the Wellesley Public Schools. I first taught *Tracks* to two upper elementary classes in Watertown, Mass. Robert Stinson, Cynthia Gilles, and Dorothy Curtis observed these trial classes and also helped me with the *Track Picture Book*. Excepting those identified by a credit line, the track photographs were taken by myself.

I want to thank Adeline Naiman and Nancy Weston for assisting in the production of this book.

David Webster

There are tracks everywhere: along the highway, around your house, and in the woods. You can find them in snow, mud, sand, dust, and cement. This book has many photographs of the tracks made by cars and humans and other animals. Look for tracks outside, and try to figure out how they were made.

# TIRE TRACKS





Were any of  
these tracks . . .



A. Devaney, Inc.

... made by any  
of these tires?





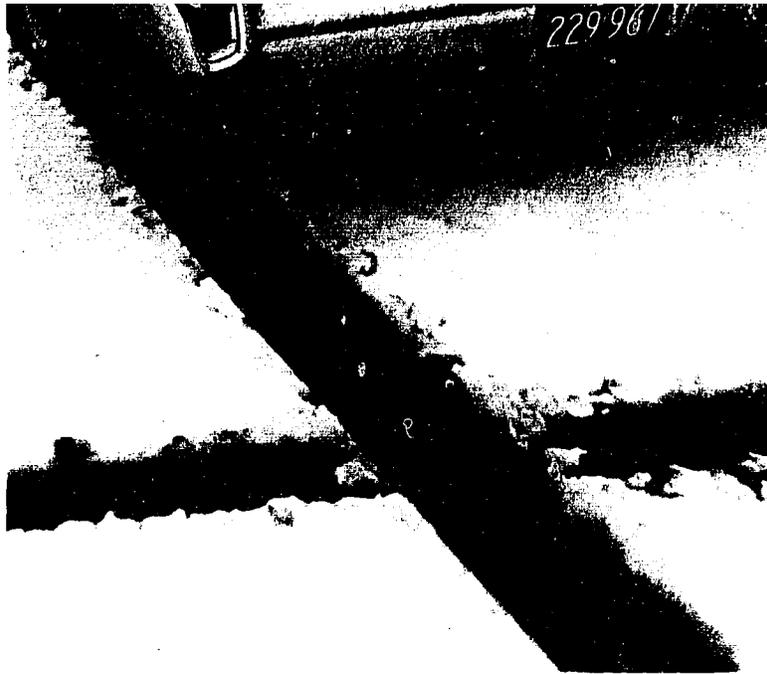
W

4









Which tracks were  
made first?

13







What happened here?

How many cars  
were there?



15

16



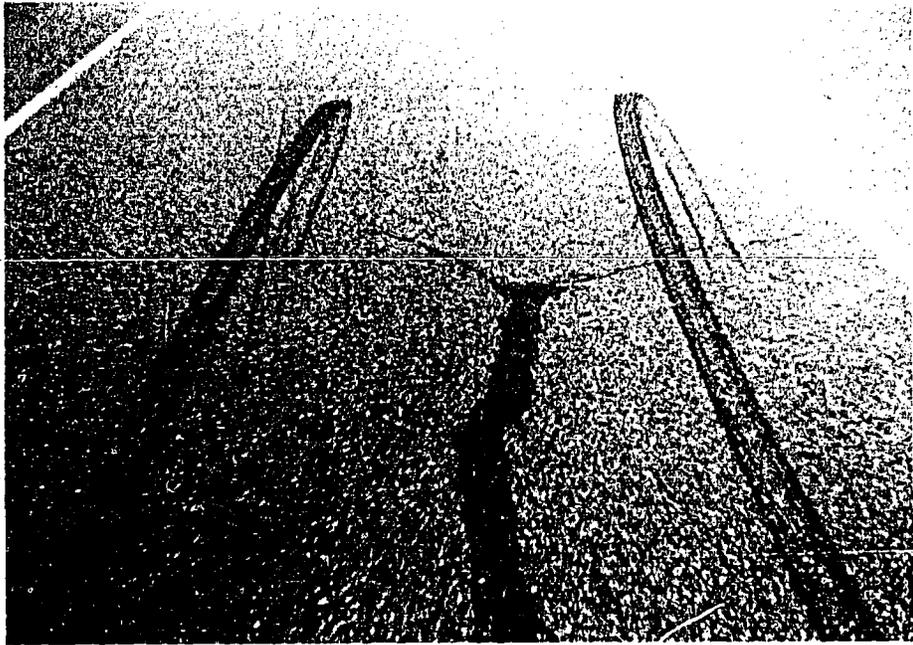
How were these tracks formed?

17

7

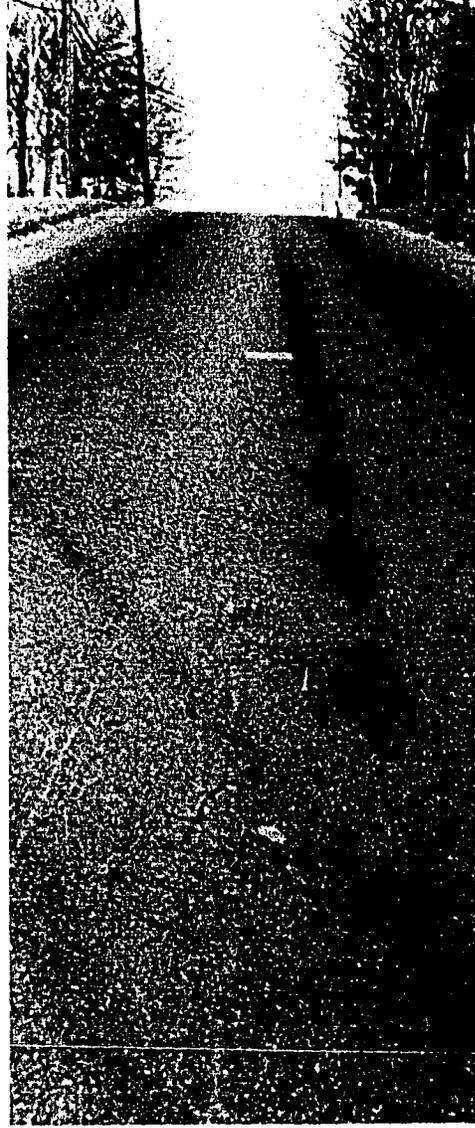


What stories do these  
skid marks tell?

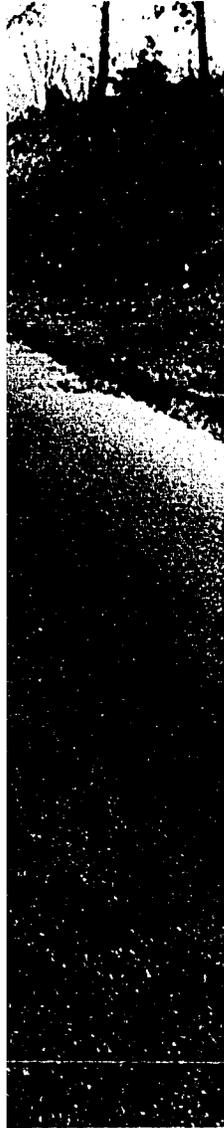








What happens when cars drive over grease or wet paint?





What happened here?

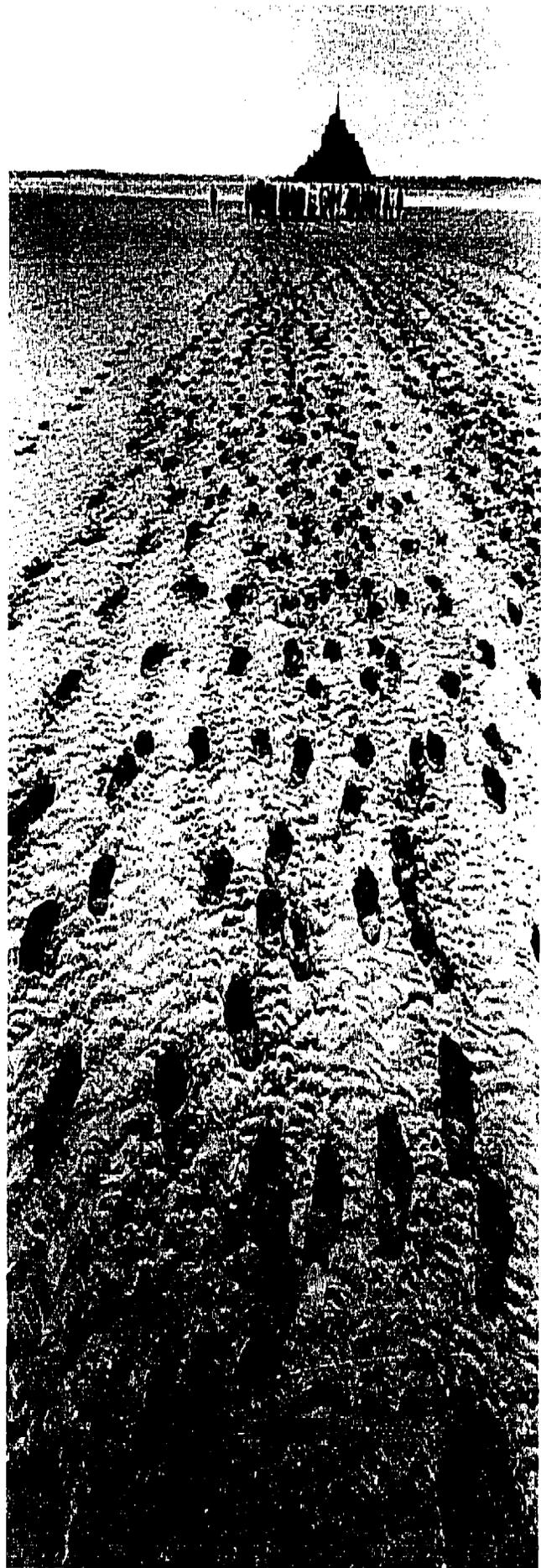








# HUMAN TRACKS



Heinz Wedewardt—Gamma



How much can you tell about these footprints?



Does snow melt in your tracks  
because your boots are hot?

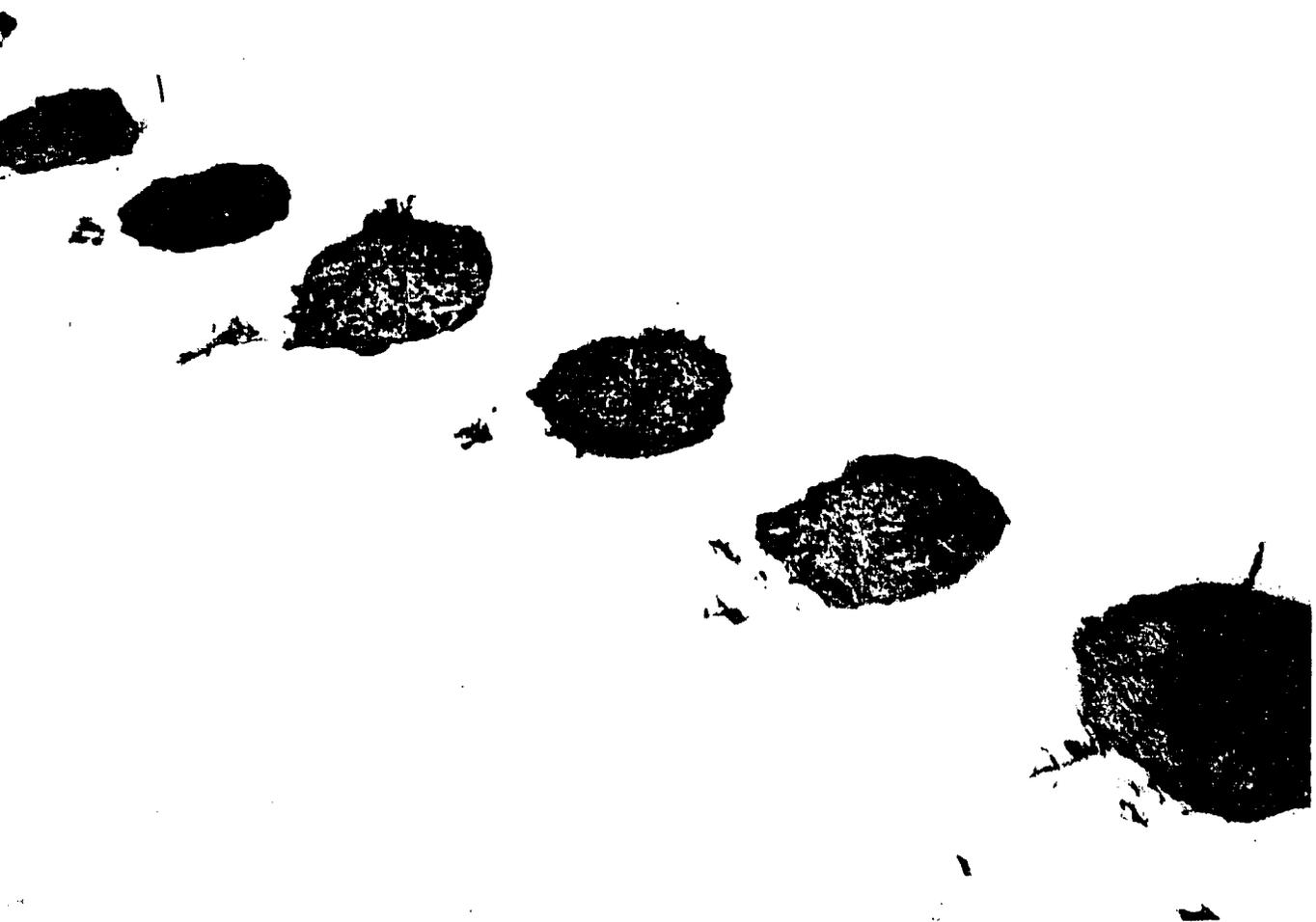


Why  
shoe  
than





Why do footprints sometimes melt like this?



34

17





W. L. Riegler from Frederic Lewis, Inc.

How were these  
tracks made?

38

19

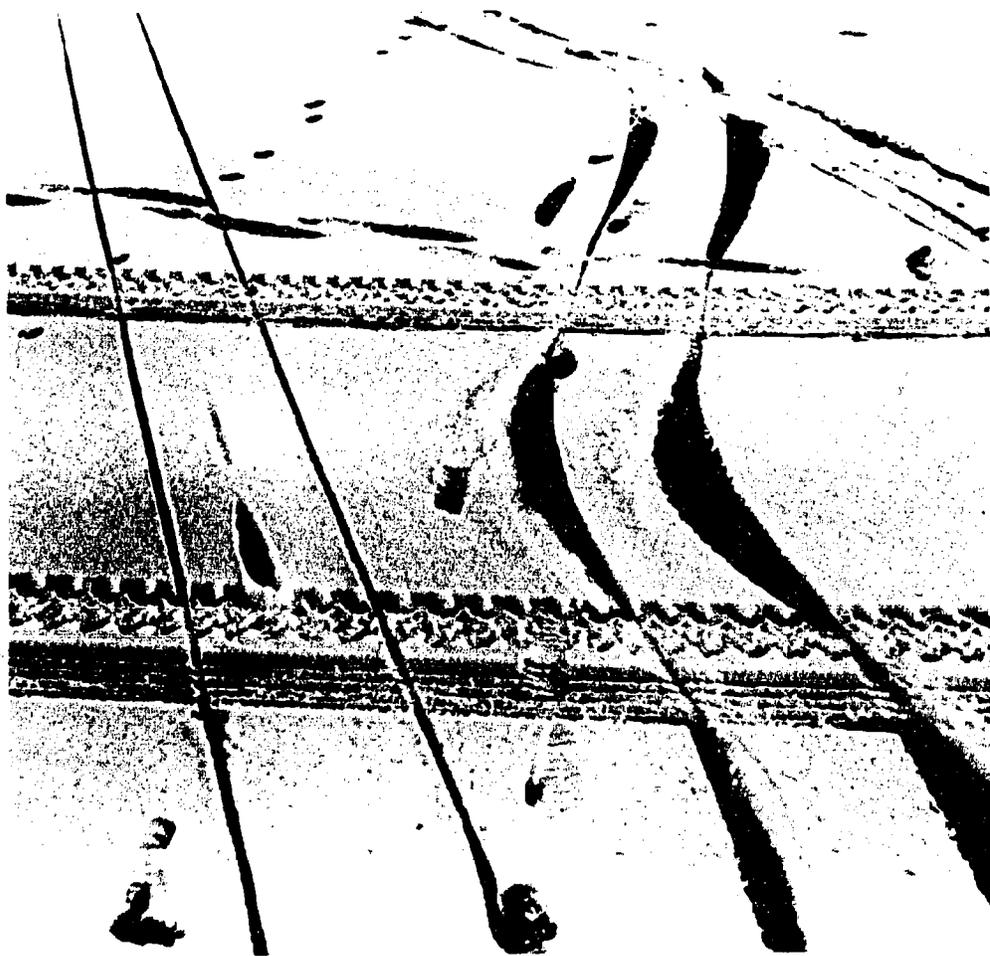






What made these tracks?

40







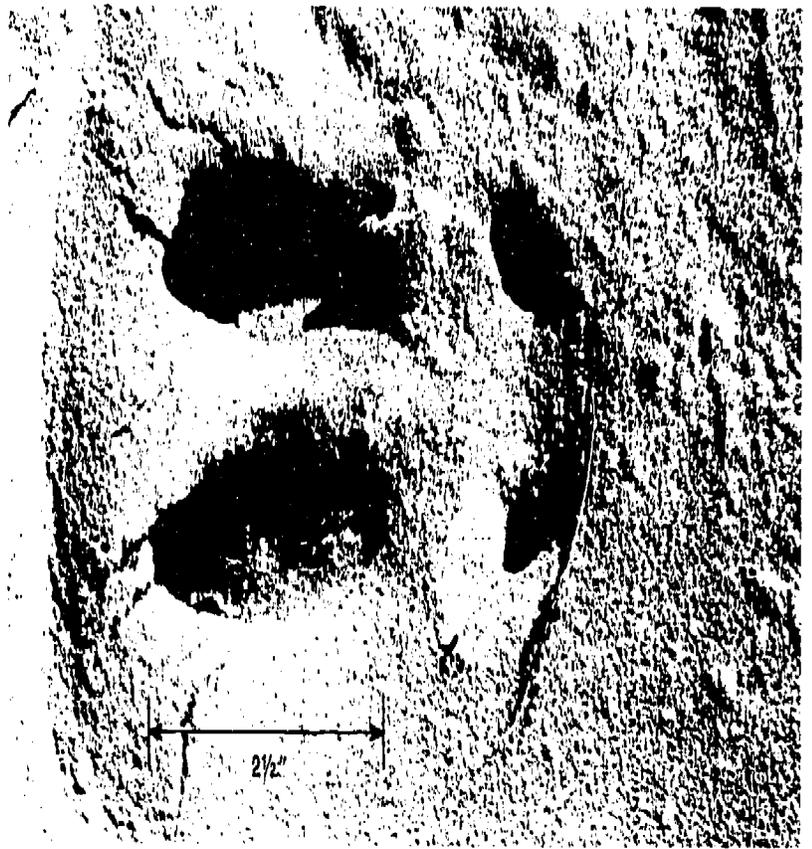
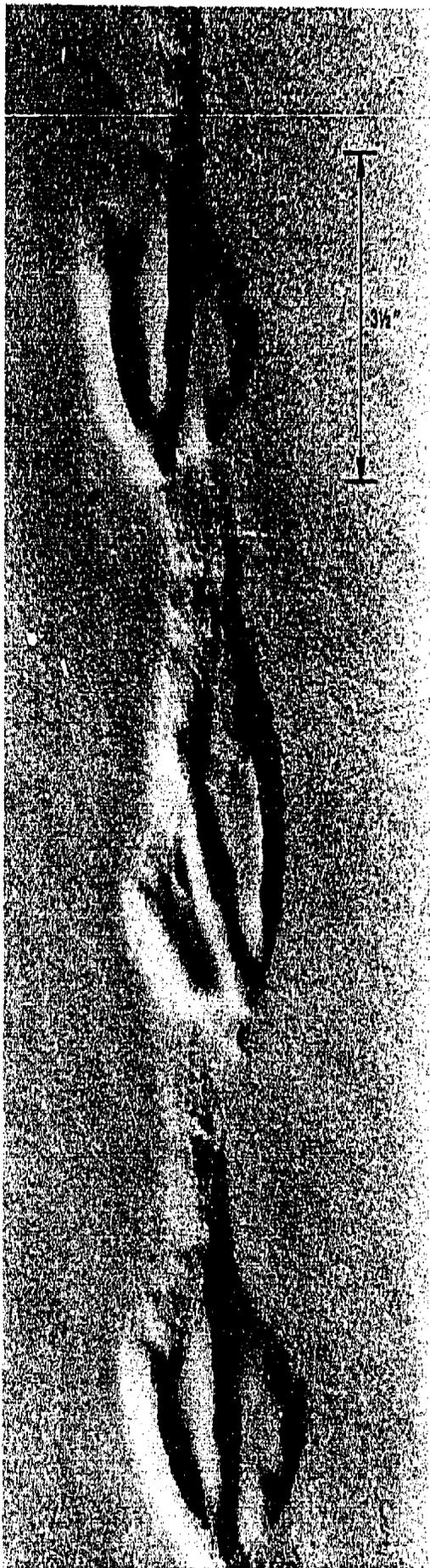
A  
T  
M  
A  
C  
K  
S





44

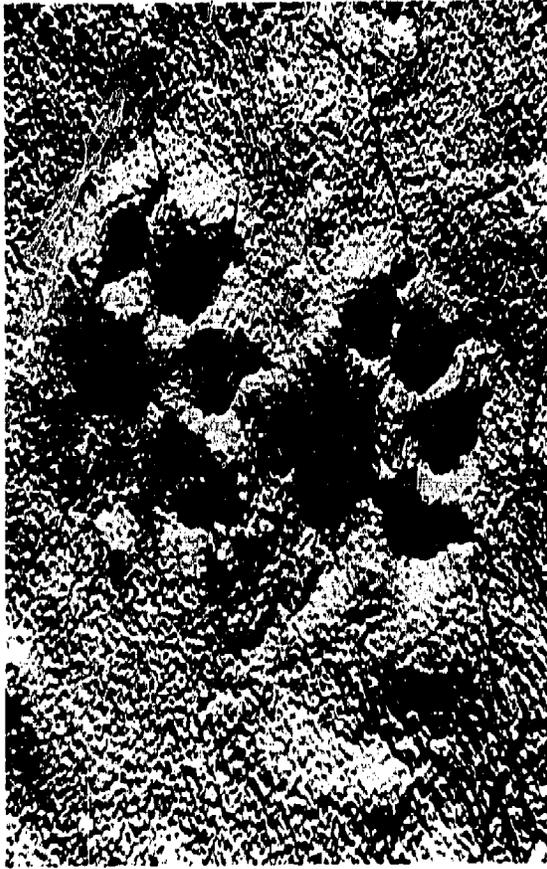
23





Can you identify  
these tracks?





Can you tell the  
dog tracks from the  
cat tracks?



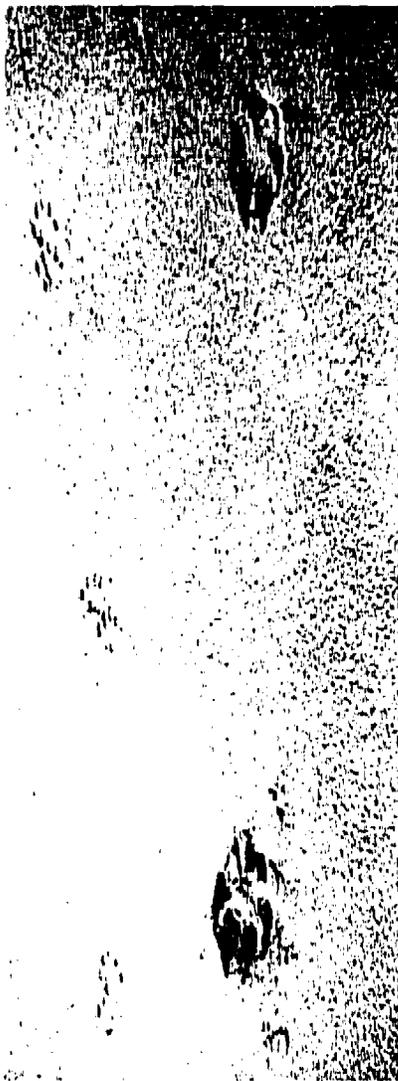


How would the  
footprints of  
these animals  
look?



H. Armstrong Roberts





In which direction  
were these animals  
moving?





Have you ever seen  
tracks in cement?

How were these dinosaur  
tracks made in stone?



V  
i  
c  
t  
o  
r  
S  
t  
o  
k  
e  
s  
E.  
D.  
C.

57

How could you make tracks with ink or poster paint?



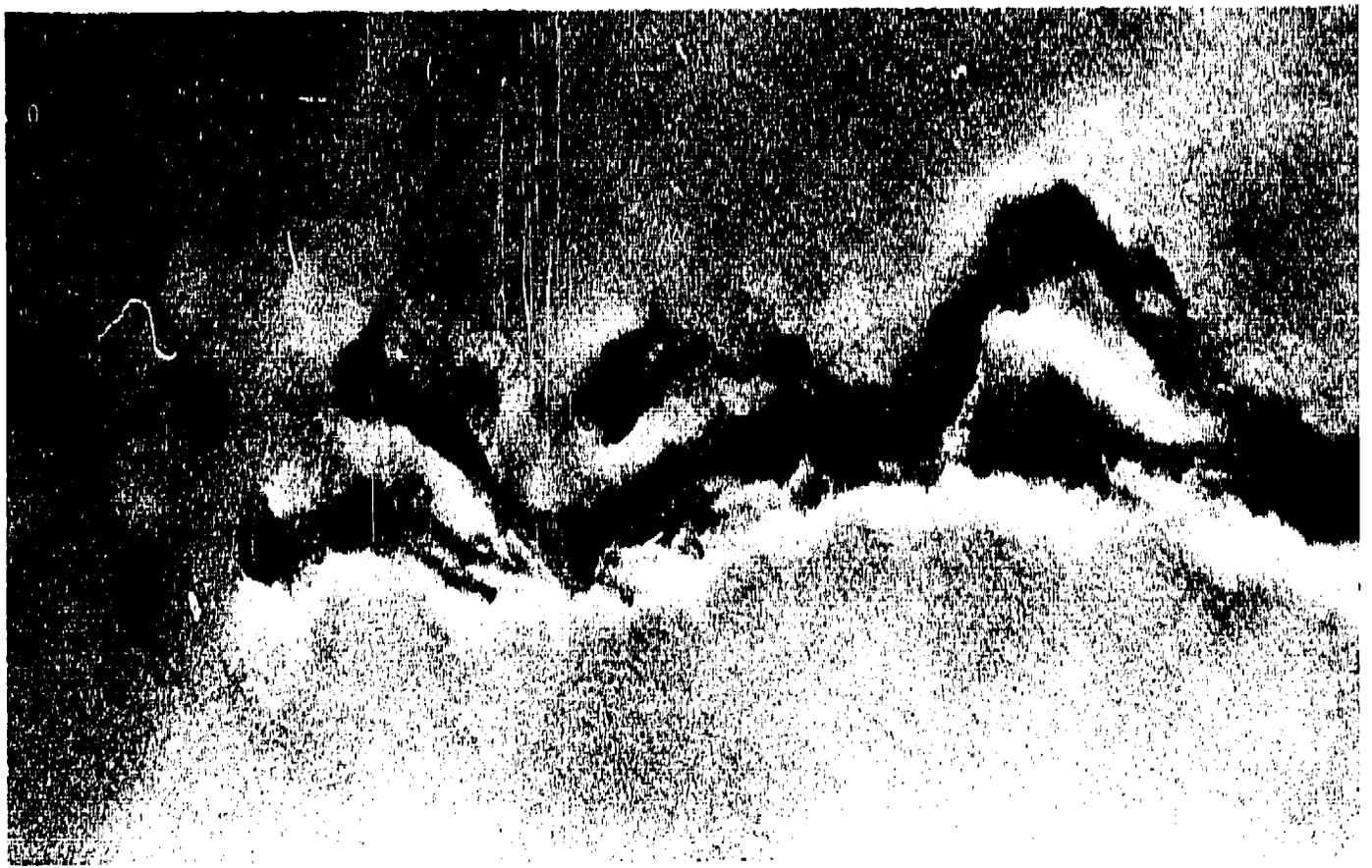
Victor Stokes, E.D.C.



Victor Stokes, E.D.C.

59

31

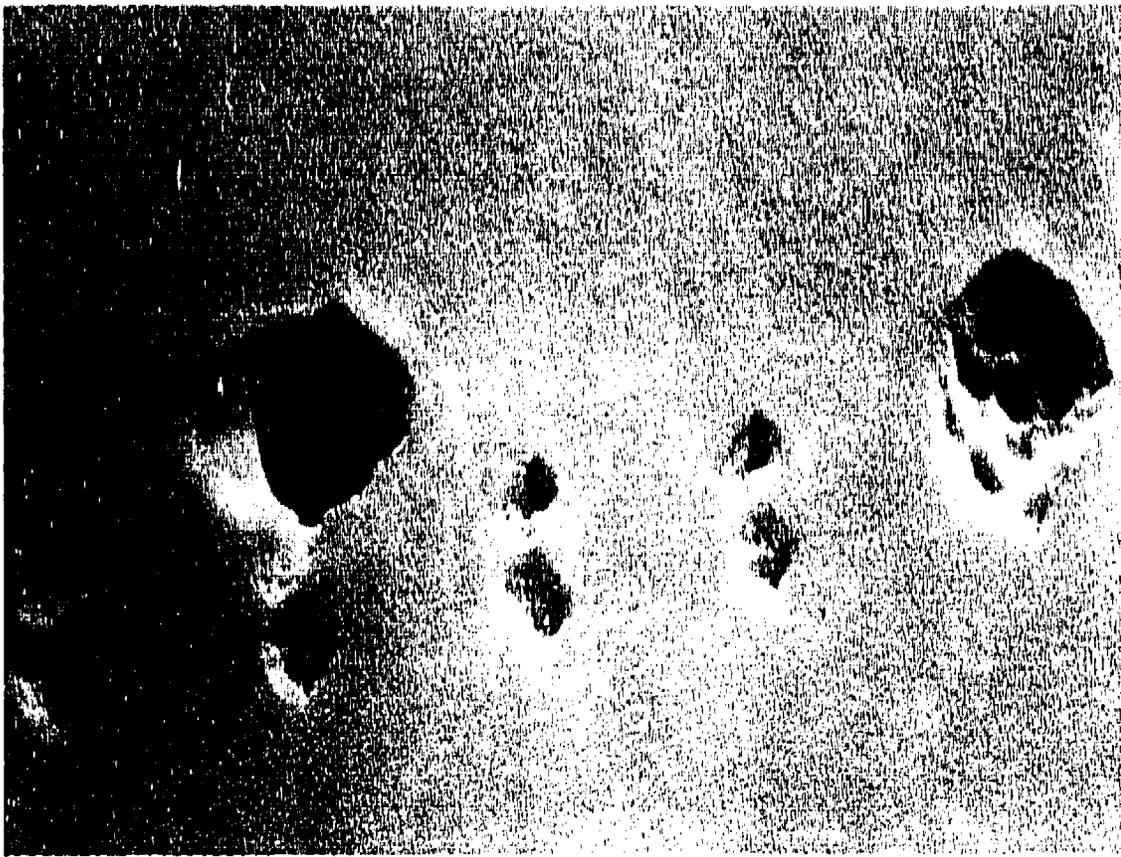


What animals could  
have made the holes?



60

61



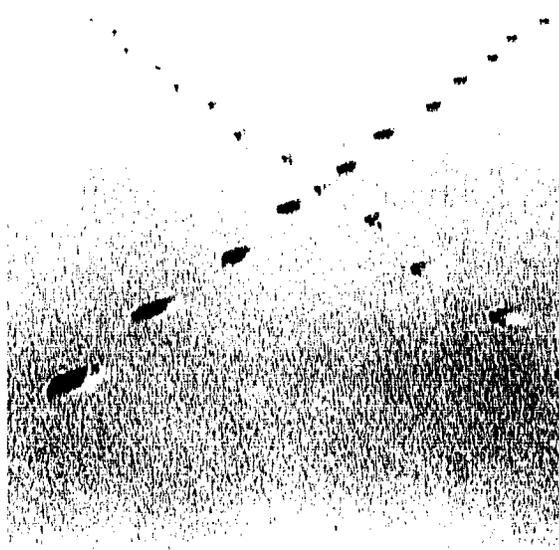
Courtesy of the American  
Museum of Natural History

Who was following whom?



Where did the animal  
that made this track  
come from, and where  
did it go?





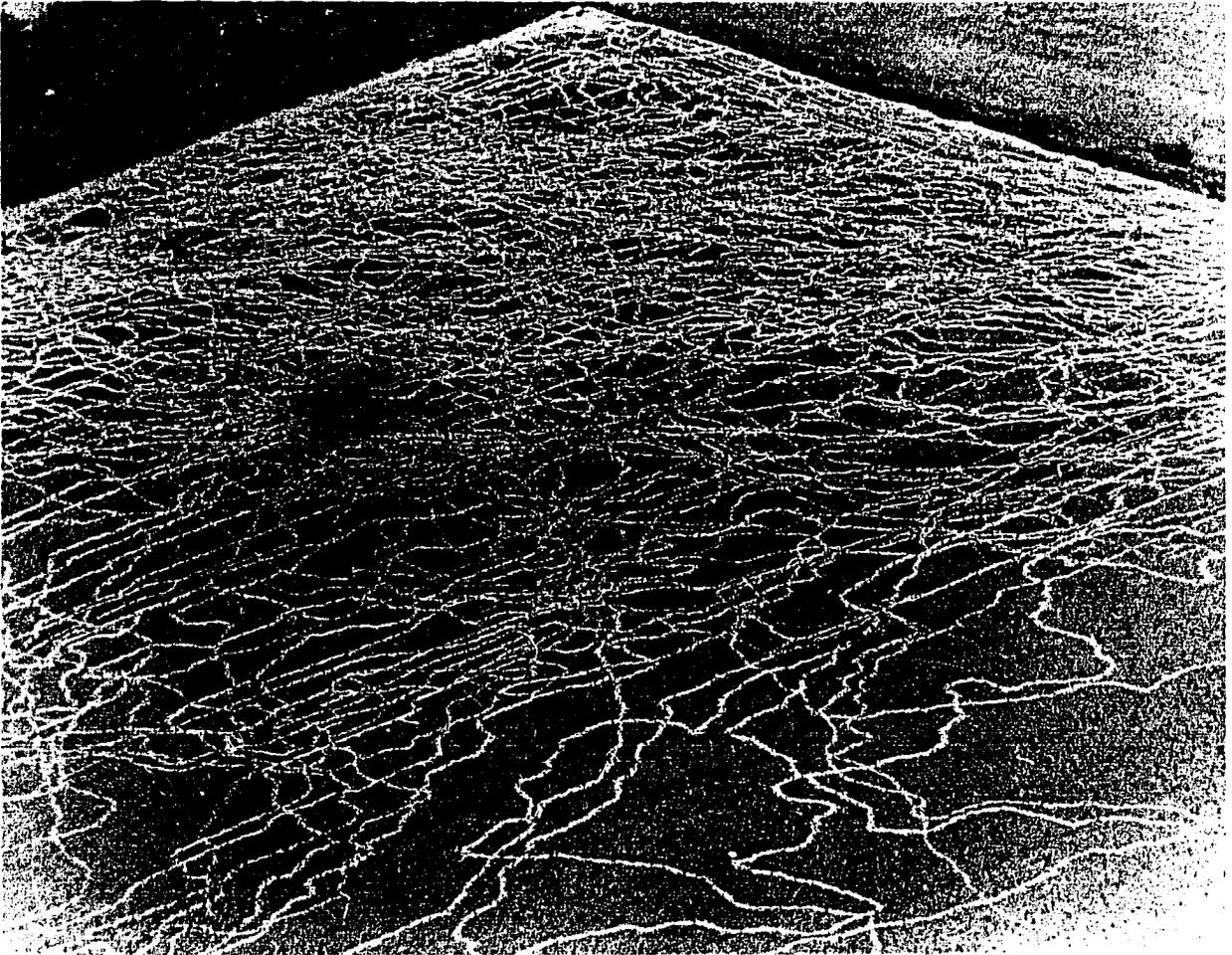
What happened here?

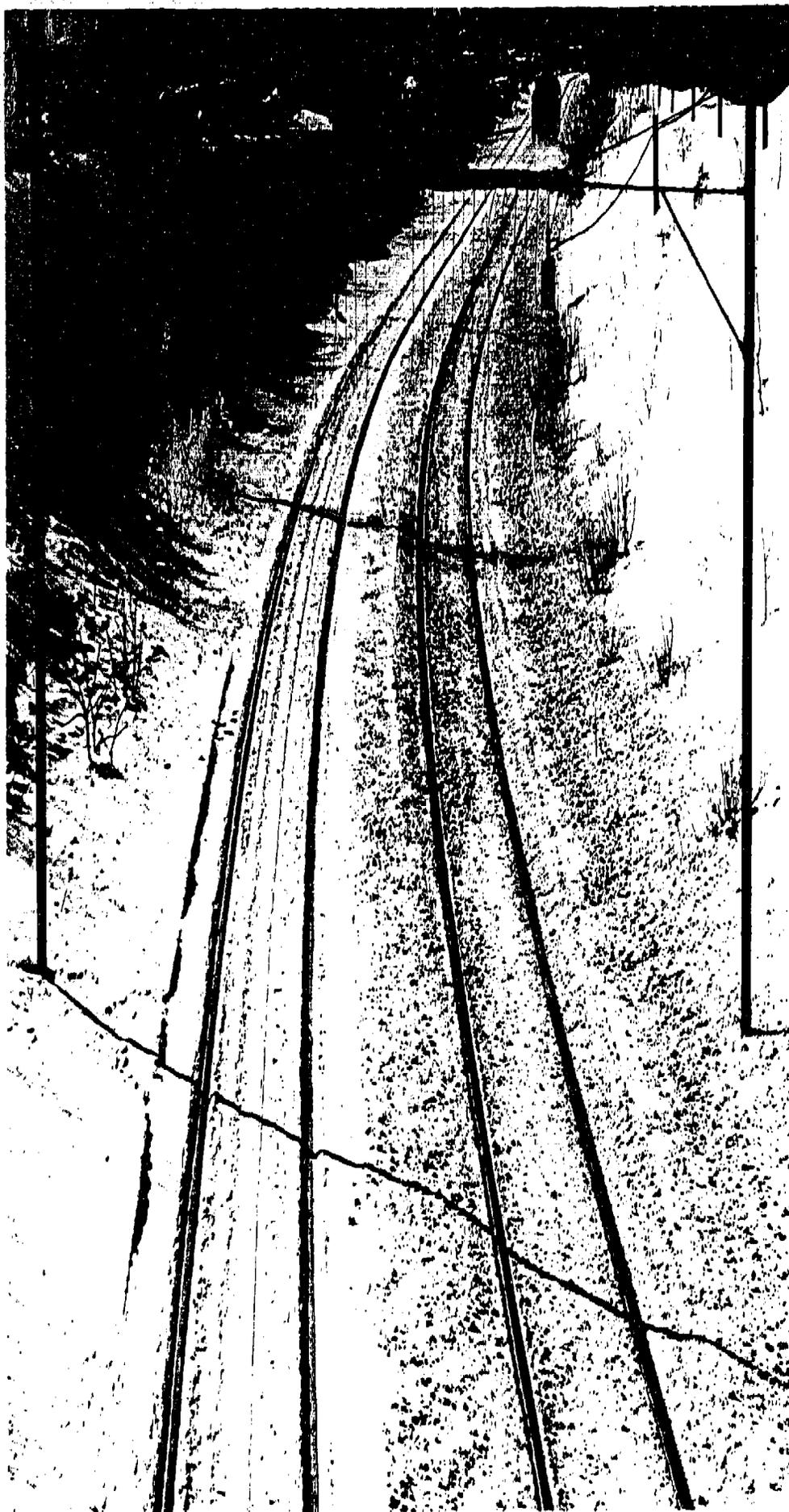




Photo Researchers, Inc.

Rockford (Ill.) Register-Republic Photo By Don Holt





# OTHER TRACKS

Victor Stokes, E.D.C.



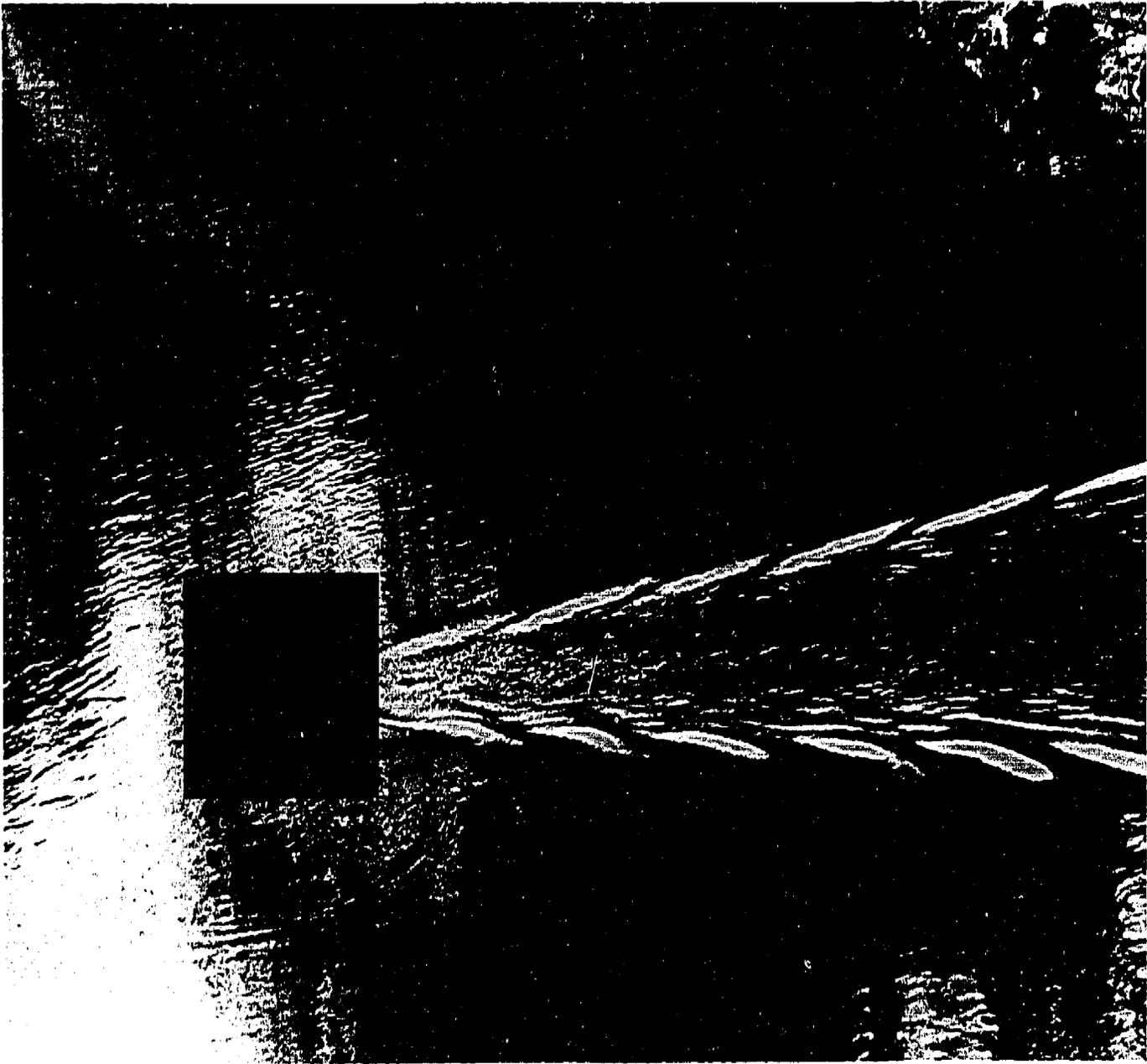
What made the grooves in the mountain?



Which marks were made by water?

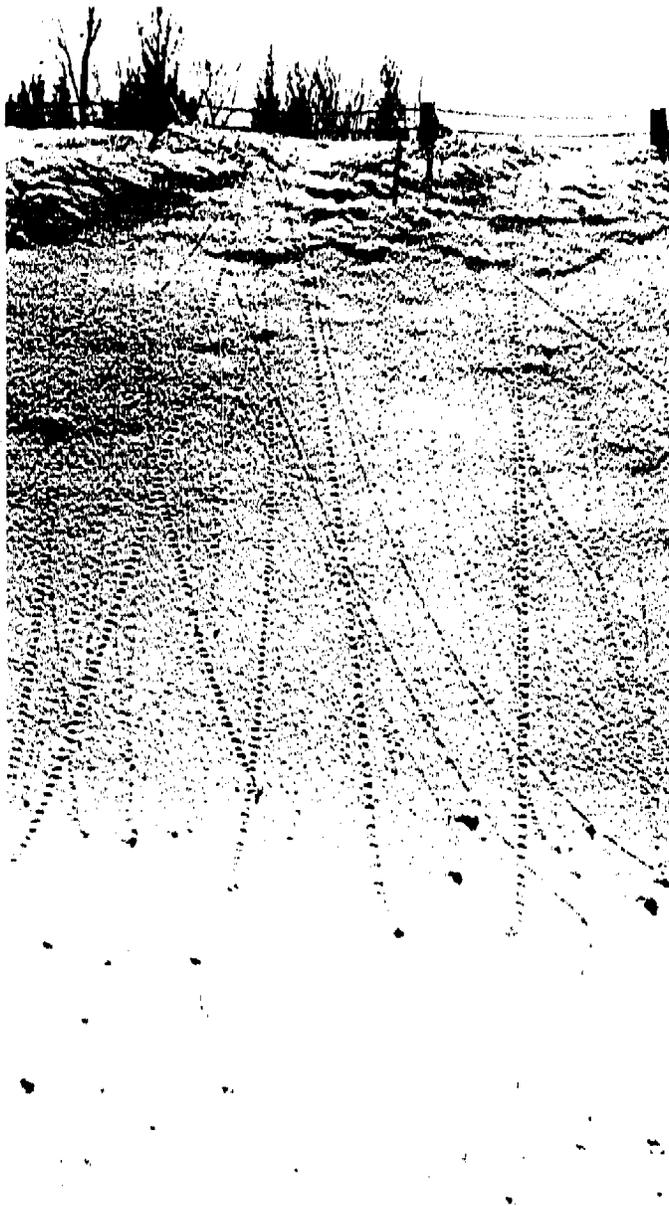


What makes the wake  
of a ship white?



Ell Finer—De Wys, Inc.

What could have caused this wake?



Did animals make ...





... any of these tracks?









