Atlas of

EARTH SCIENCES DIVISION

U. S. ARMY NATICK LABORATO

MEAN MONTHLY TEMPERATURES

TECHNICAL REPORT
ES-10

AUGUST 1964

EARTH SCIENCES DIVISION

U. S. ARMY NATICK LABORAT

NATICK, MASSACHUSETTS

3

TEMPERATURES

TECHNICAL REPORT
ES-10

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ORATORIES

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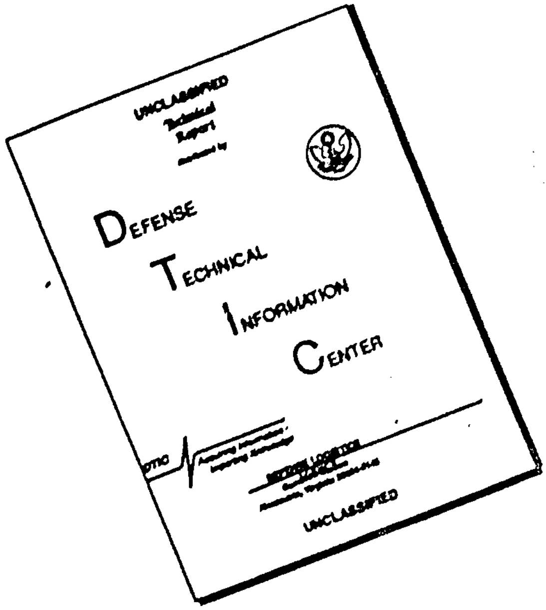

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On equal area, continents base maps are used to portray mean monthly temperatures for all land areas of the world except Antarctica. Seventy-two individual maps, 12 for each continent, give complete coverage for all months of the year.

Isotherms are drawn at intervals of 10 Fahrenheit degrees ([illegible] Centigrade degrees). A 10-color overprint, graduated from warm to cool colors, provides a color spectrum corresponding to the temperature gradations. A color key identifies temperature values in both Fahrenheit and Centigrade values.

Map sheets are as follows:

North America	[illegible]
South America	[illegible]
Europe	[illegible]
Africa	[illegible]
Asia	[illegible]
Australia	[illegible]

1. Temperature maps
I. U. S. Army Natick Laboratories
II. Title
III. Series

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I. U. S. Army Natick Laboratories
II. Title
III. Series

ERRATA

ATLAS OF MEAN MONTHLY TEMPERATURES, ES-10

Foreword	Line seven, second paragraph should read: The January and July maps —
Map No.	
1	Southern coast of Iceland should fall within the 32 to 50 degree range. See corresponding area on Map 25.
	Aleutians should fall within the 32 to 50 degree range, with higher elevations between 14 and 32 degrees.
	Color is missing from Nunivak Island. It should be in the -4 to 14 degree range.
	Color is missing from The Faeroes. They should be in the 30 to 50 degree range.
7, 9, 10	Color is missing from Bermuda. It should be included in the 68 to 86 degree range.
11, 12	Color is missing from Bermuda. It should be included in the 50 to 68 degree range.
19	Small areas in the Andes should be shown with temperatures below 14 degrees as on Maps 18 and 20.
24	Small areas in southern Chile with temperatures below 32 degrees are outlined but are not appropriately colored.
45, 46	Temperatures between 50 and 68 degrees should be shown at higher elevations in the Canary Islands.
54	Two areas in central India are incorrectly colored. They should fall within the 68 to 86 degree range.

Foreword

Heat is basic to all life and activity. Temperature is an indicator of the relative degree of heat. All design of material or plans for human activity ... war, must consider the temperatures to be experienced. Major geographic differences over the earth are associated with temperature differences.

Early in World War II, a group of geographers and climatologists was brought together in the Quartermaster Corps to work out a ... system to protect the soldier at any time of the year, in any part of the world. It at once became apparent that there did not exist an adequate world coverage ... climatic elements. One of the first tasks of the group, therefore, was to draw a series of climatic maps, continent by continent. Starting in 1943 a series of ... month of every continent, and representative months on the oceans, was compiled by the Quartermaster group and published by Army Map Service ... basis for the first scientific clothing allowance zones of the world, which were adopted as the official standard by the U. S. Army. To improve and refine these ... tract was let with Clark University which resulted in 1948 in a series of 76 large-scale maps of temperature. These maps have been used almost continuously ... problems involving environment. The January and June maps have been almost worn out. Because of the value of these maps, not only to the Army Meteor... climatologists outside of the Army, it was felt desirable to publish them in permanent form. Army Research Office made funds available for publication ... climatologists of the Earth Sciences Division, U. S. Army Natick Laboratories, revised the original maps and arranged for their publication by Army Map Se...

While using the maps of mean monthly temperatures for many purposes, the Earth Sciences Division and its predecessor groups have appreciated the ... information about temperature and have been producing and publishing more sophisticated studies, including extreme temperatures, frequency, duration ... and cycles of instantaneous samples of climates. Although these other types of data are useful for many purposes, the Earth Sciences Division does not wish ... mean temperatures. Means continue to be useful where it is desired to make broad quantitative comparisons between different parts of the earth's surface ... tems of climatic classification such as those of Koppen, Thornthwaite, and deMartonne, are based upon the use of climatic means, for example. Means ... summation of approximate total amounts of energy involved during the period of time as in problems of month by month fuel requirements for heating. Wi... large masses, as in warehouses, the temperature of the massive bulk is so stable and changes so little in the course of a day, that monthly means provide a ... temperature conditions. If broad relative comparisons are needed, detailed cyclical data may actually be confusing. The forest may be obscured by the tree...

Whatever the use to which they may be put, scientific or applied, it is hoped that these maps will provide a useful factual summary and a significant co... literature.

Appreciation is expressed to the Geography Department at Clark University that made the first drafts of these maps, to members of the Earth Scien... Mr. Andrew Hastings, Jr. and Mr. Roland Frodigh, who revised the maps and brought them up to date, to the Army Map Service which did the final draf... the Army Research Office which provided funds for publication.

PEVERIL MEI...
Chief
Earth Sciences D...

Foreword

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PEVERIL MEIGS, Ph.D.
Chief
Earth Sciences Division

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NORTH AMERICA

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April	64
May	65
June	66
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August	68
September	69
October	70
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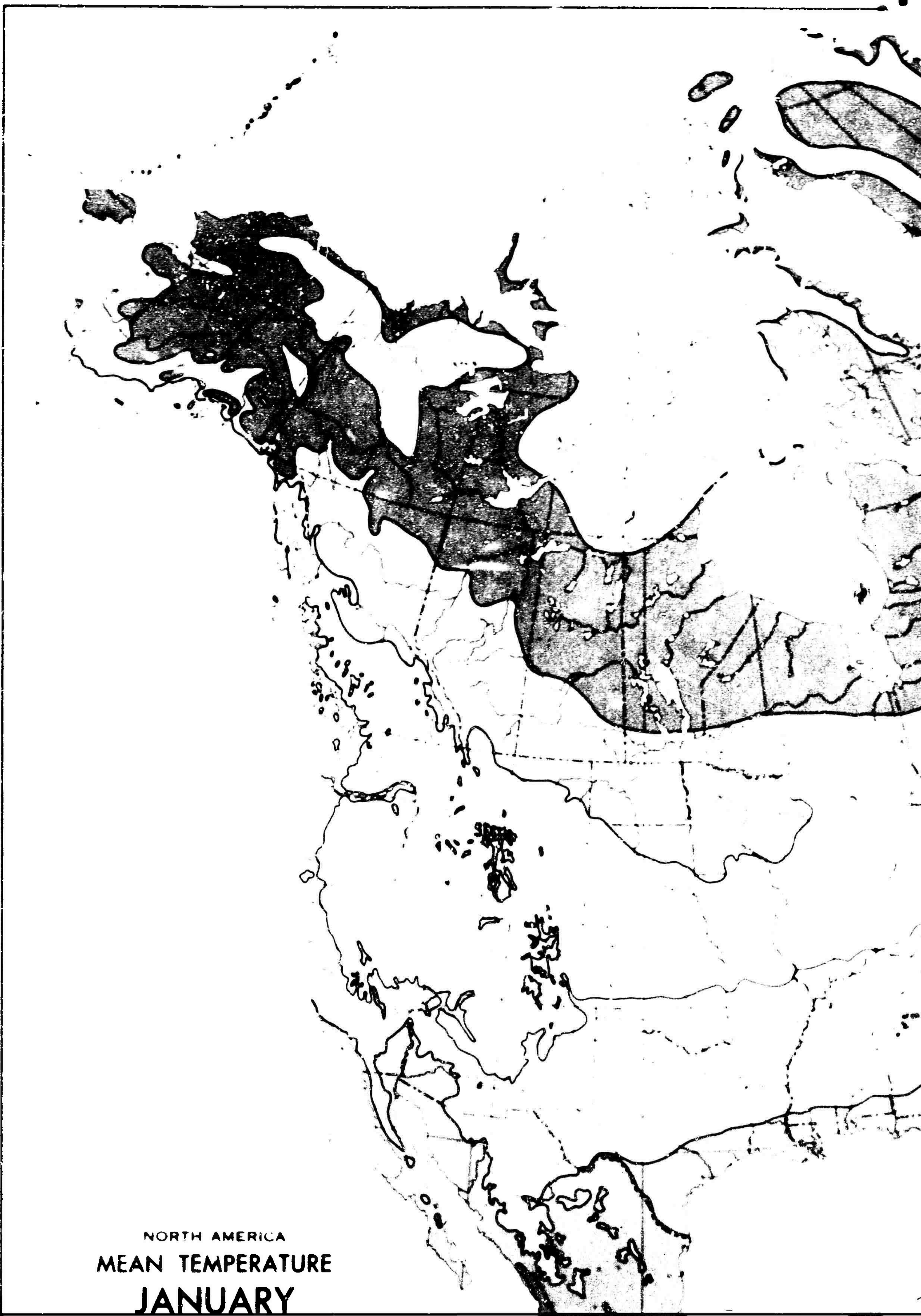
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MEAN TEMPERATURE
JANUARY

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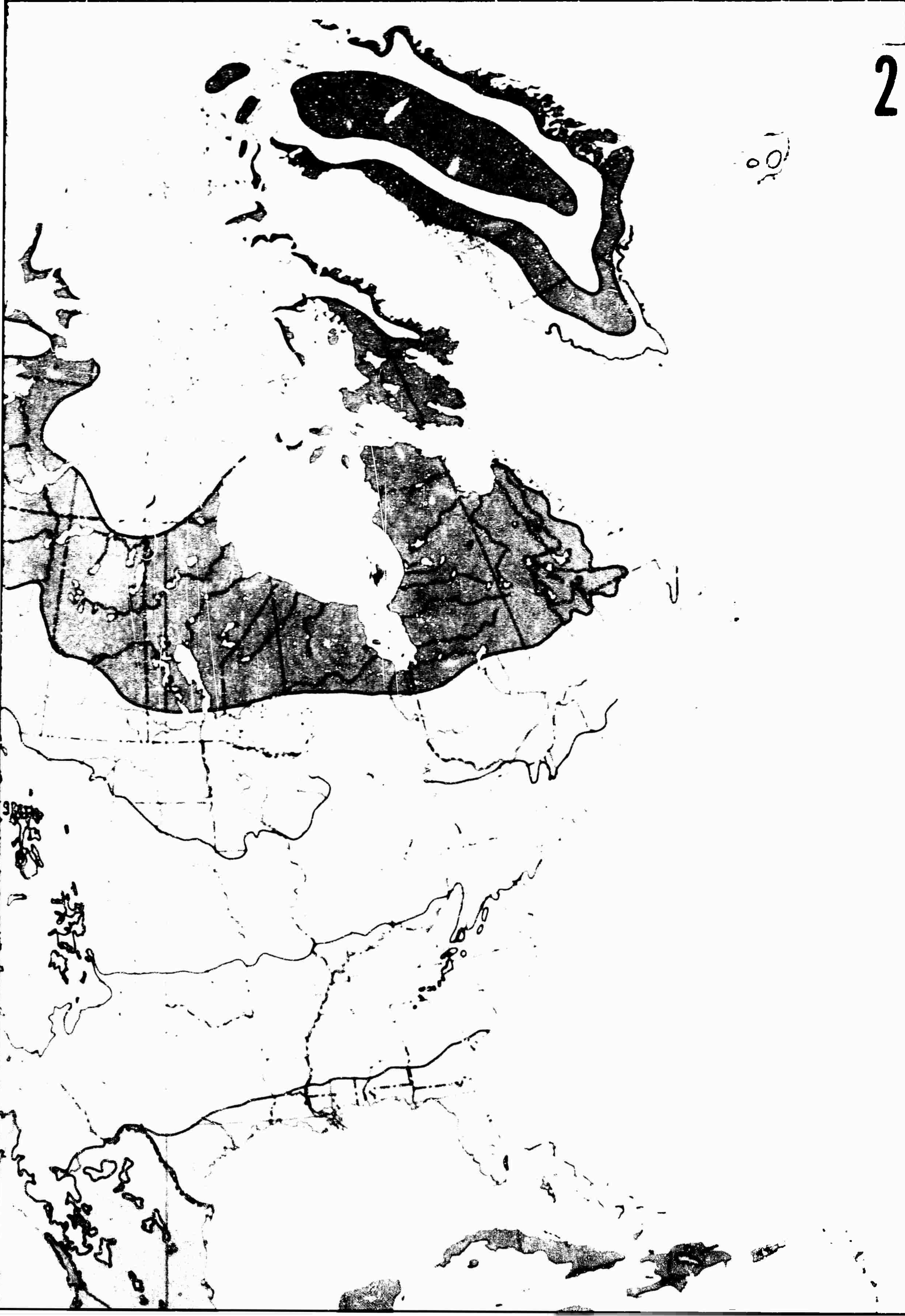

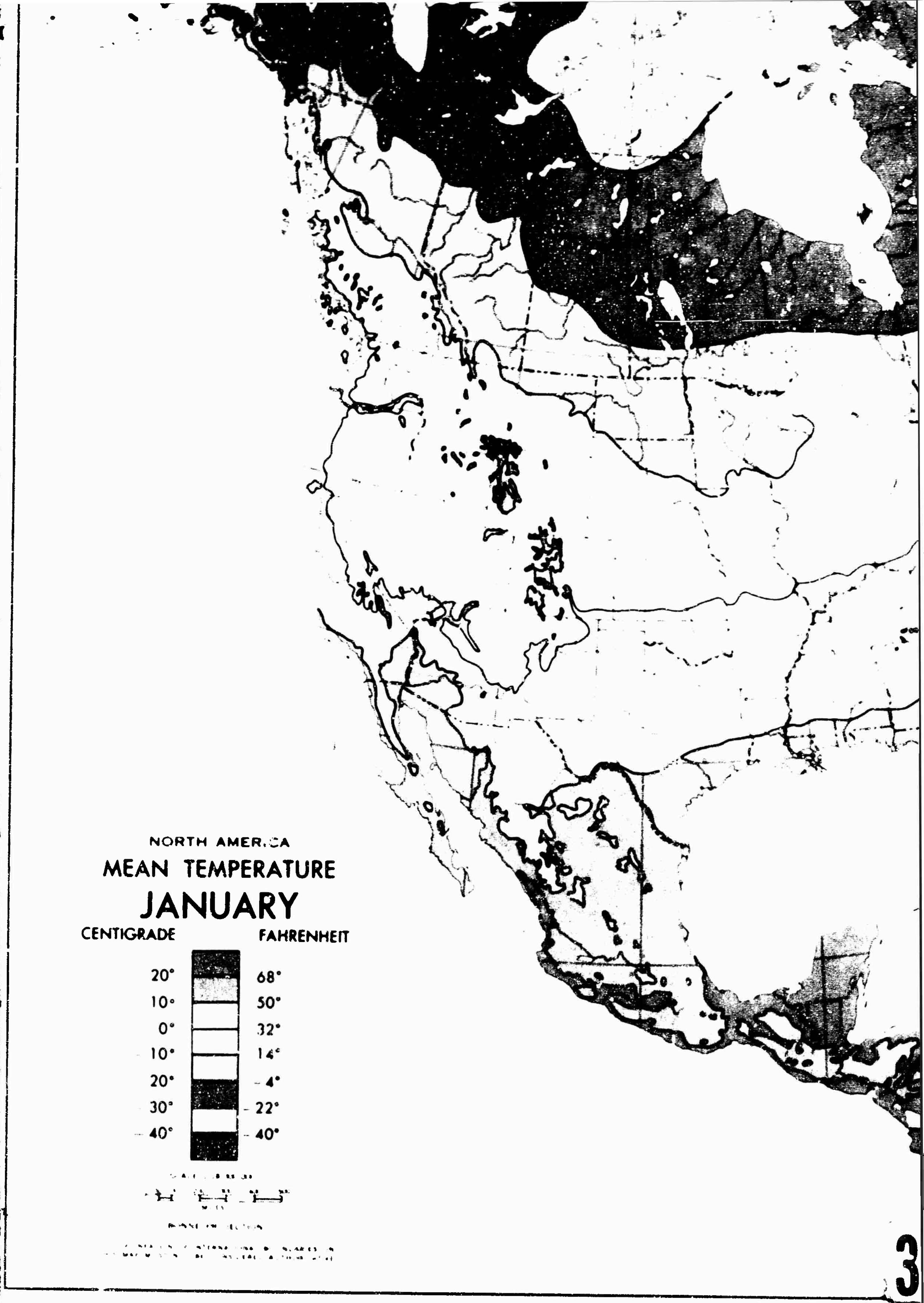
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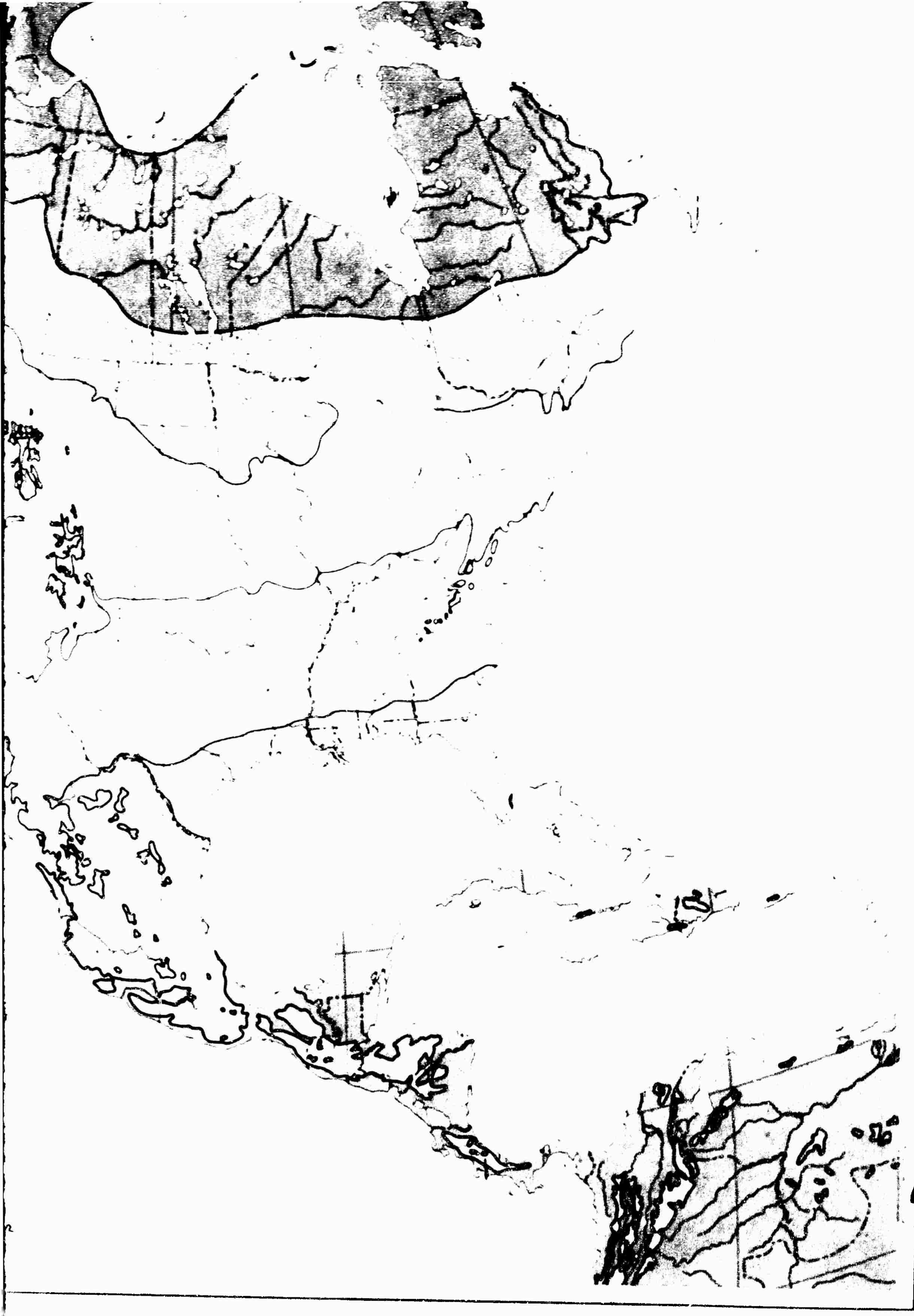
MEAN TEMPERATURE
JANUARY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
-10°
14°
-20°
-4°
-30°
-22°
-40°
-40°



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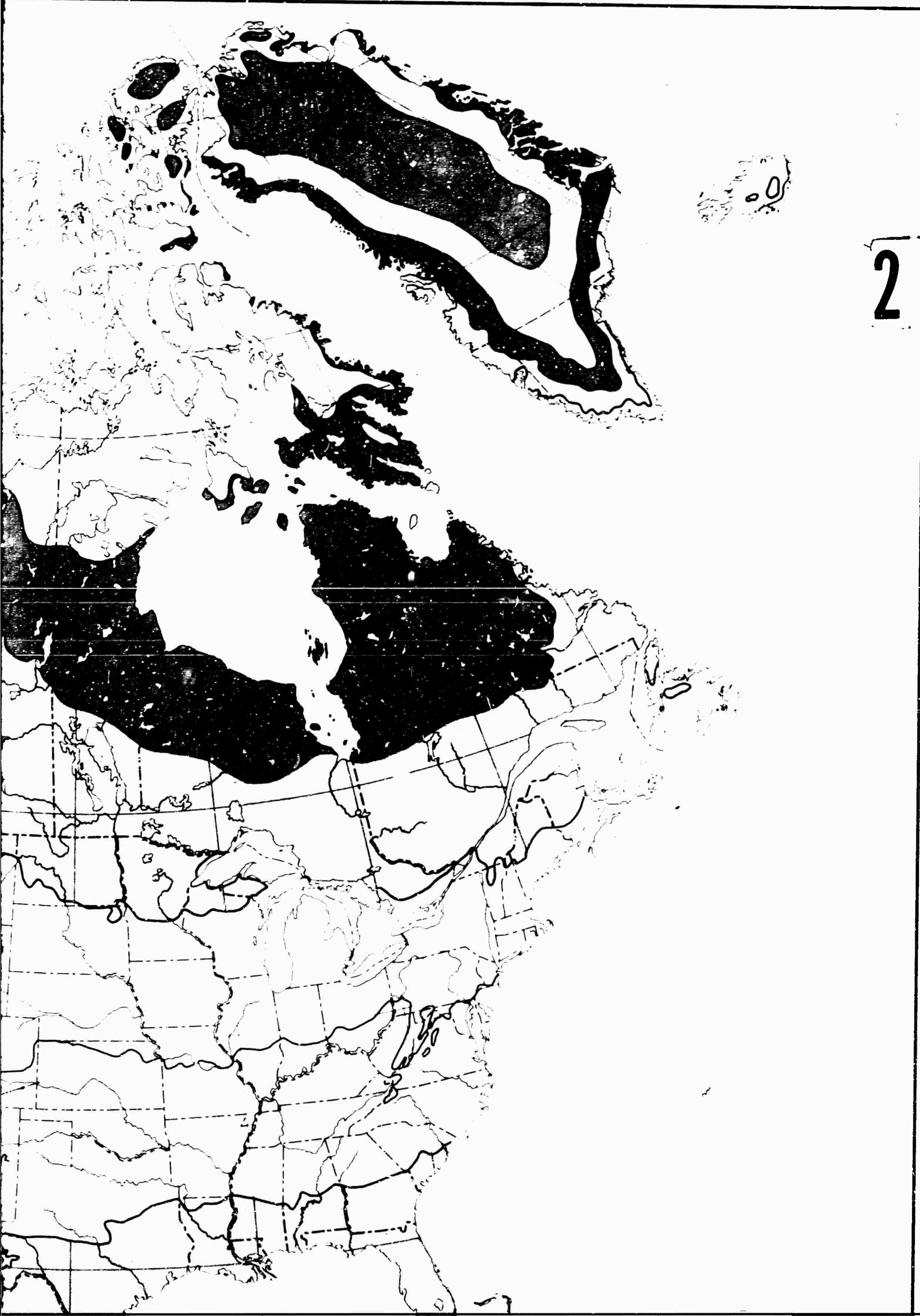
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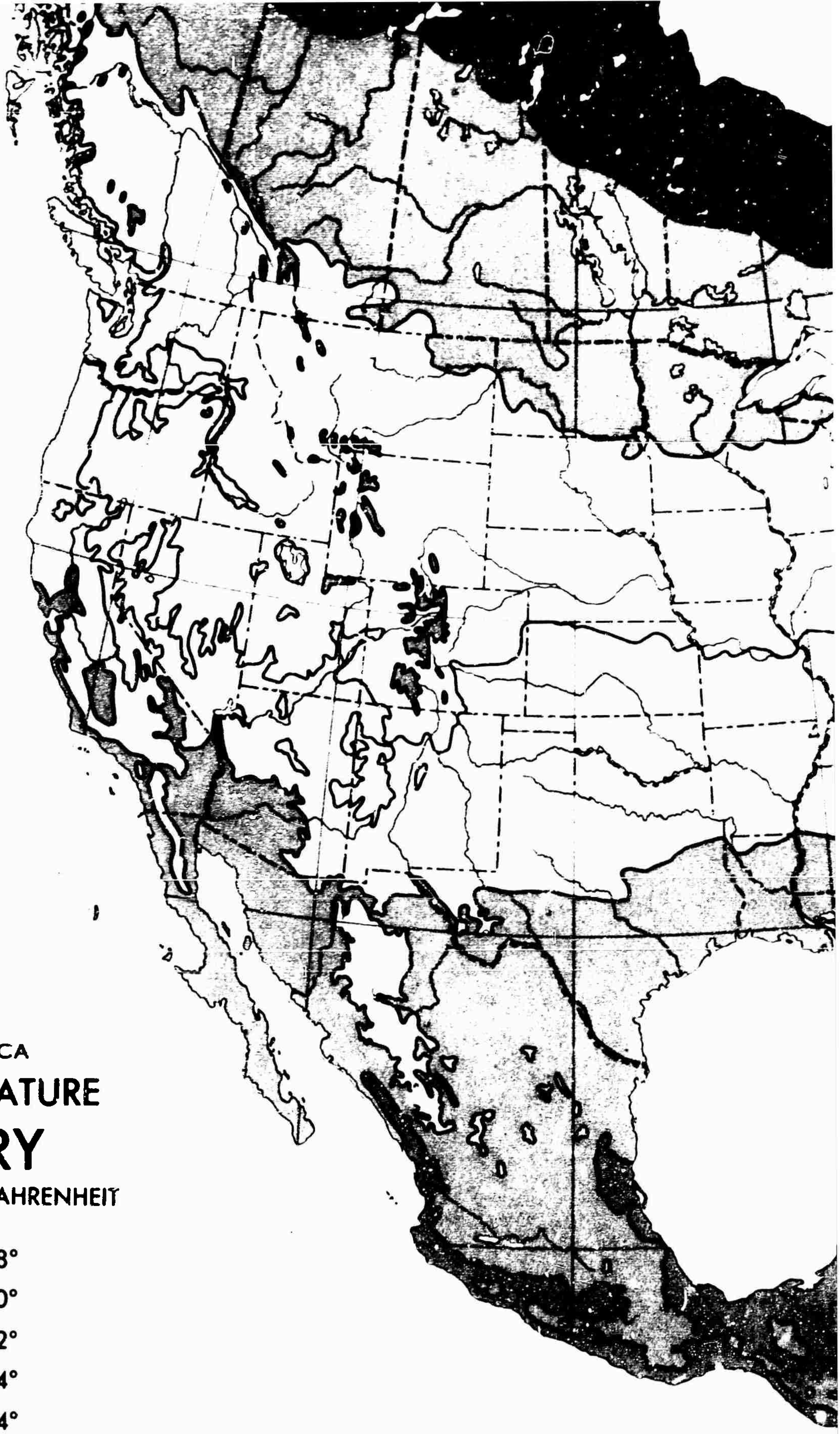
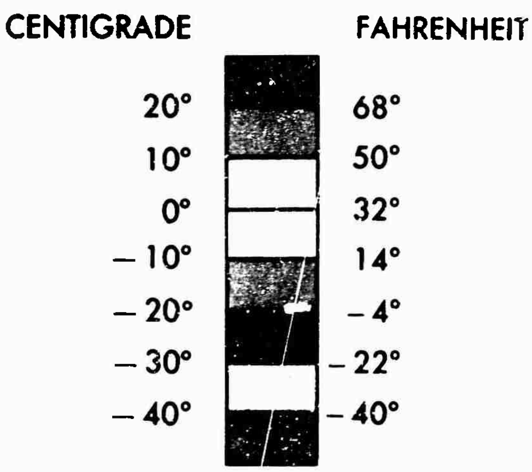


NORTH AMERICA

MEAN TEMPERATURE

FEBRUARY



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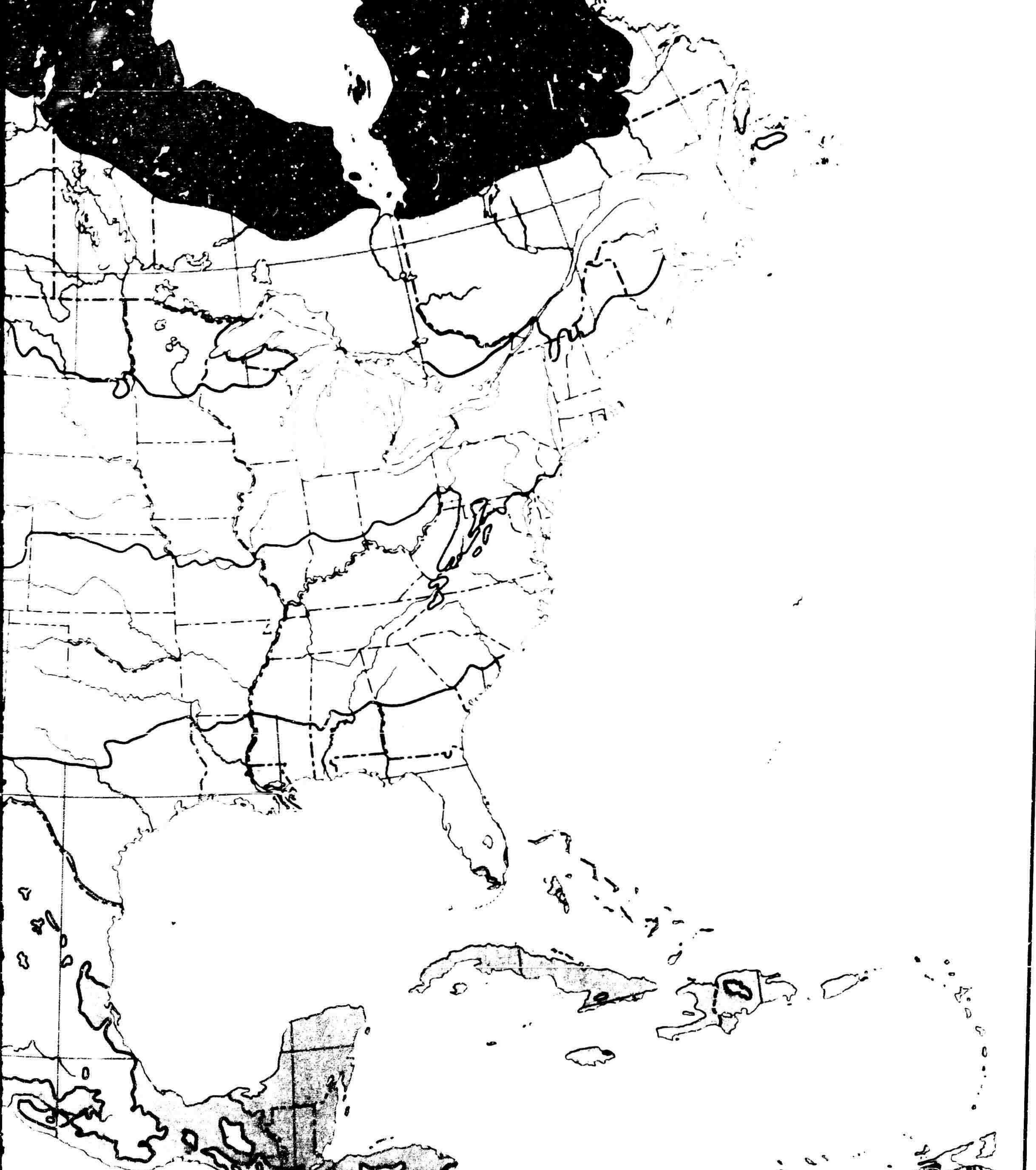

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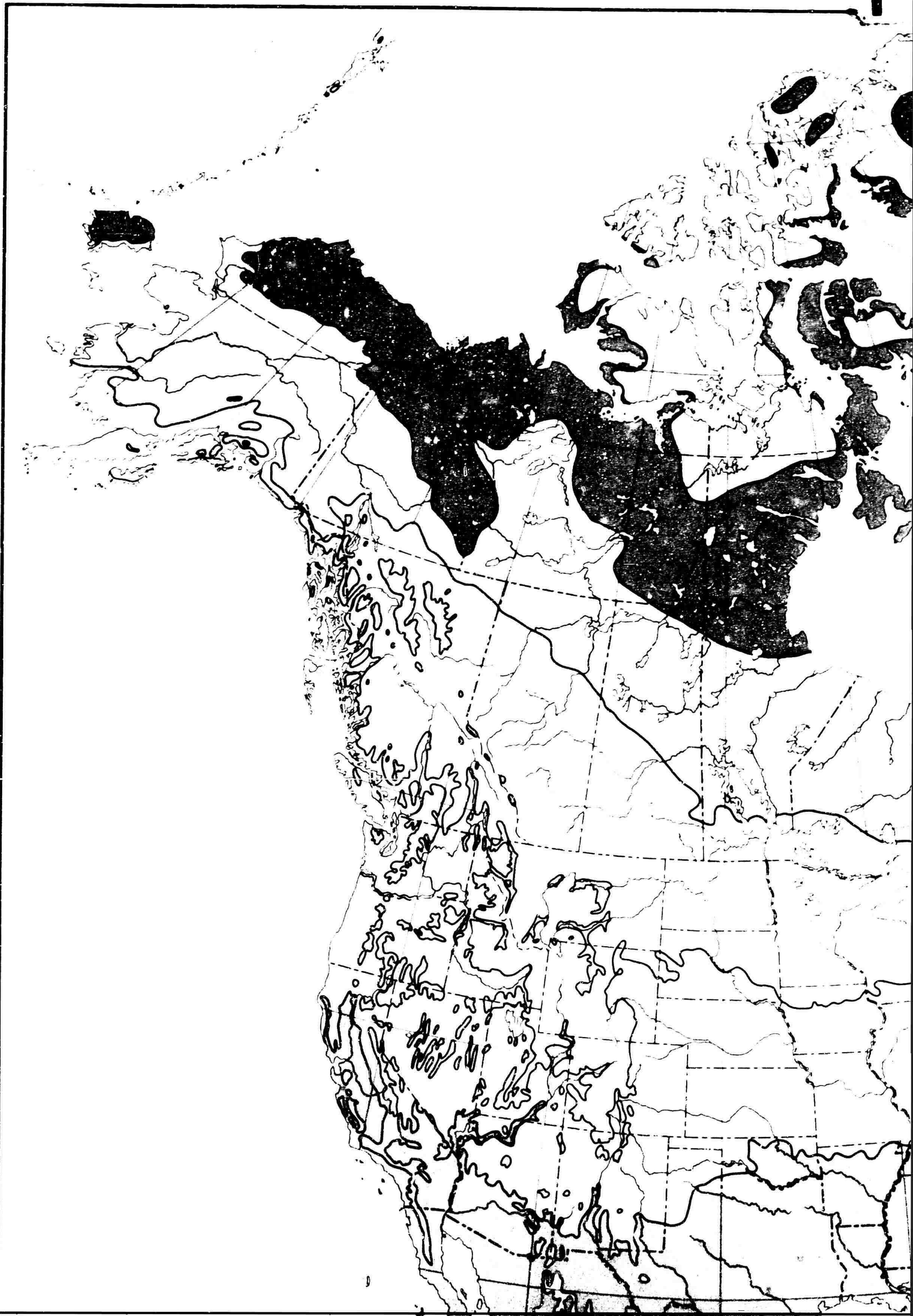

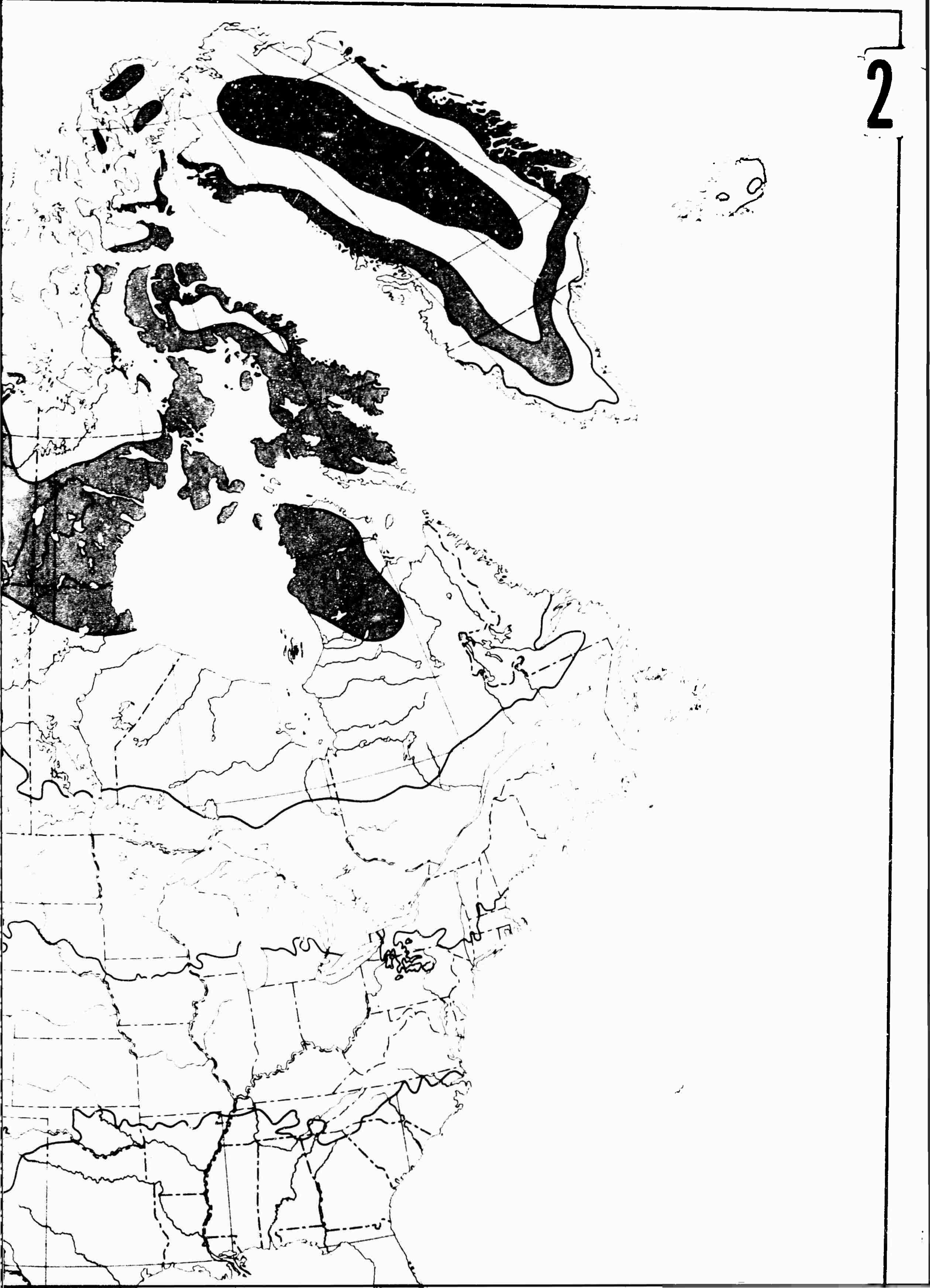
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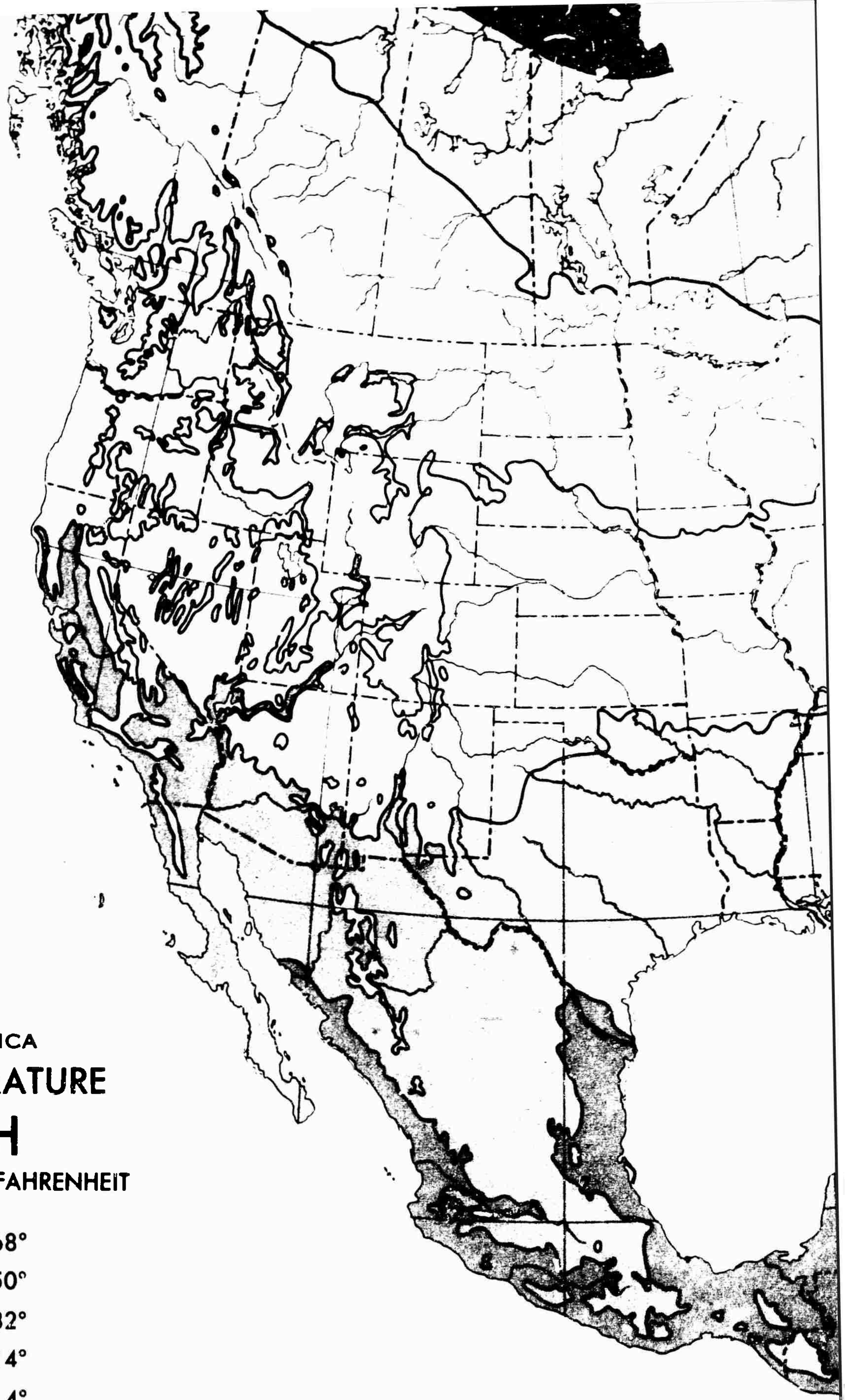

NORTH AMERICA

MEAN TEMPERATURE

MARCH

CENTIGRADE	FAHRENHEIT
20°	68°
10°	50°
0°	32°
– 10°	14°
– 20°	– 4°
– 30°	– 22°
– 40°	– 40°

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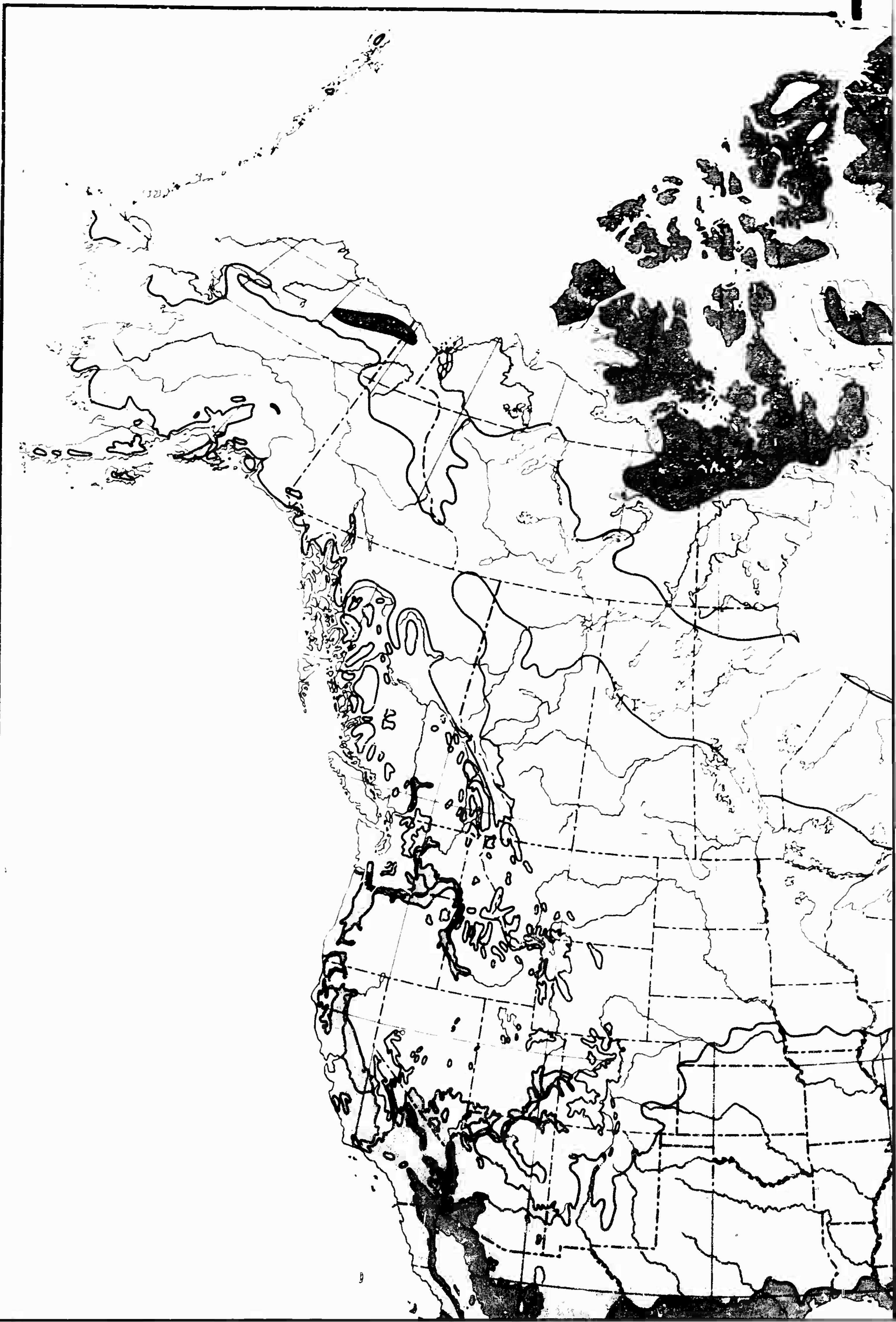

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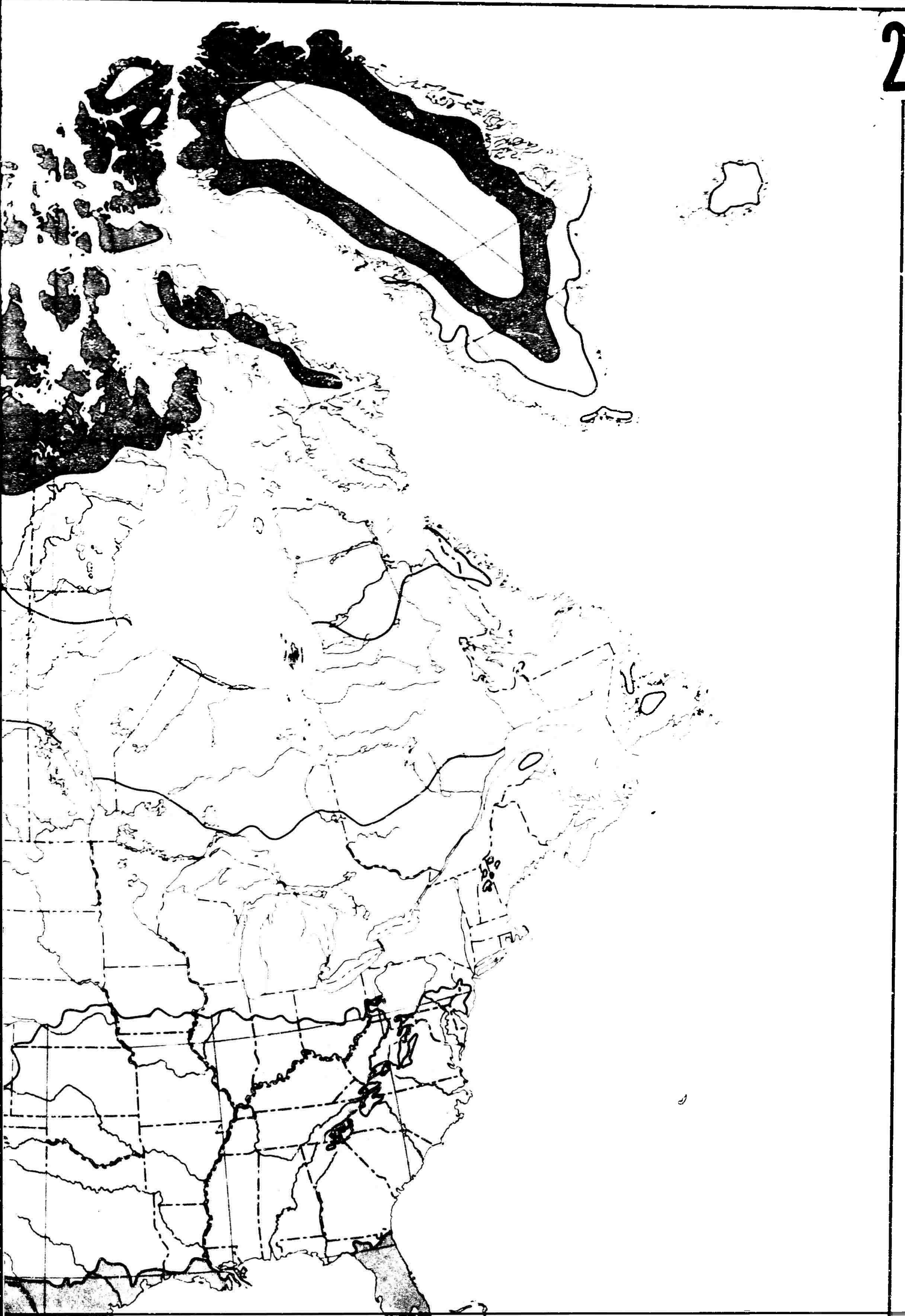

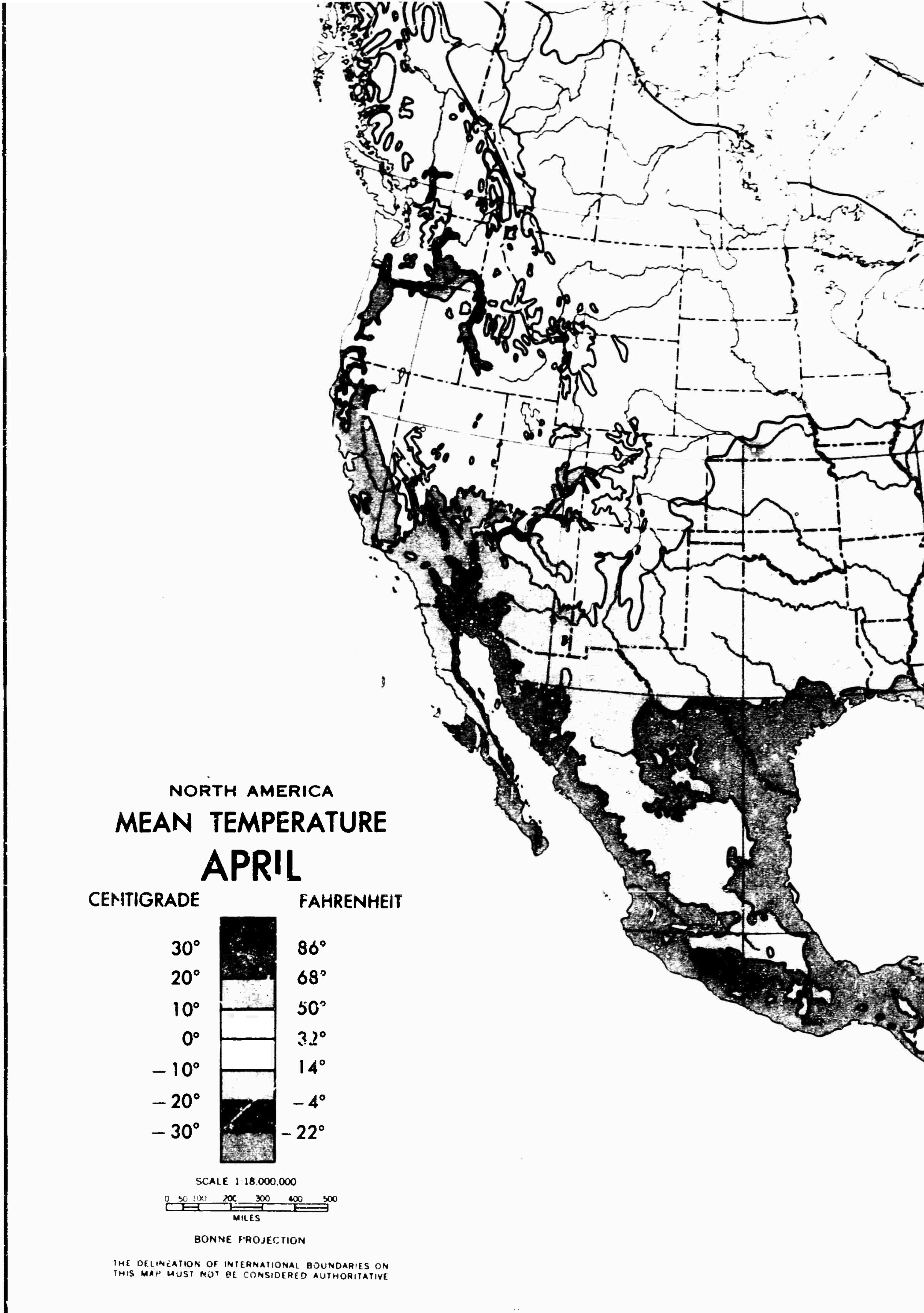
NORTH AMERICA
MEAN TEMPERATURE
APRIL
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
– 10°
14°
– 20°
– 4°
– 30°
– 22°
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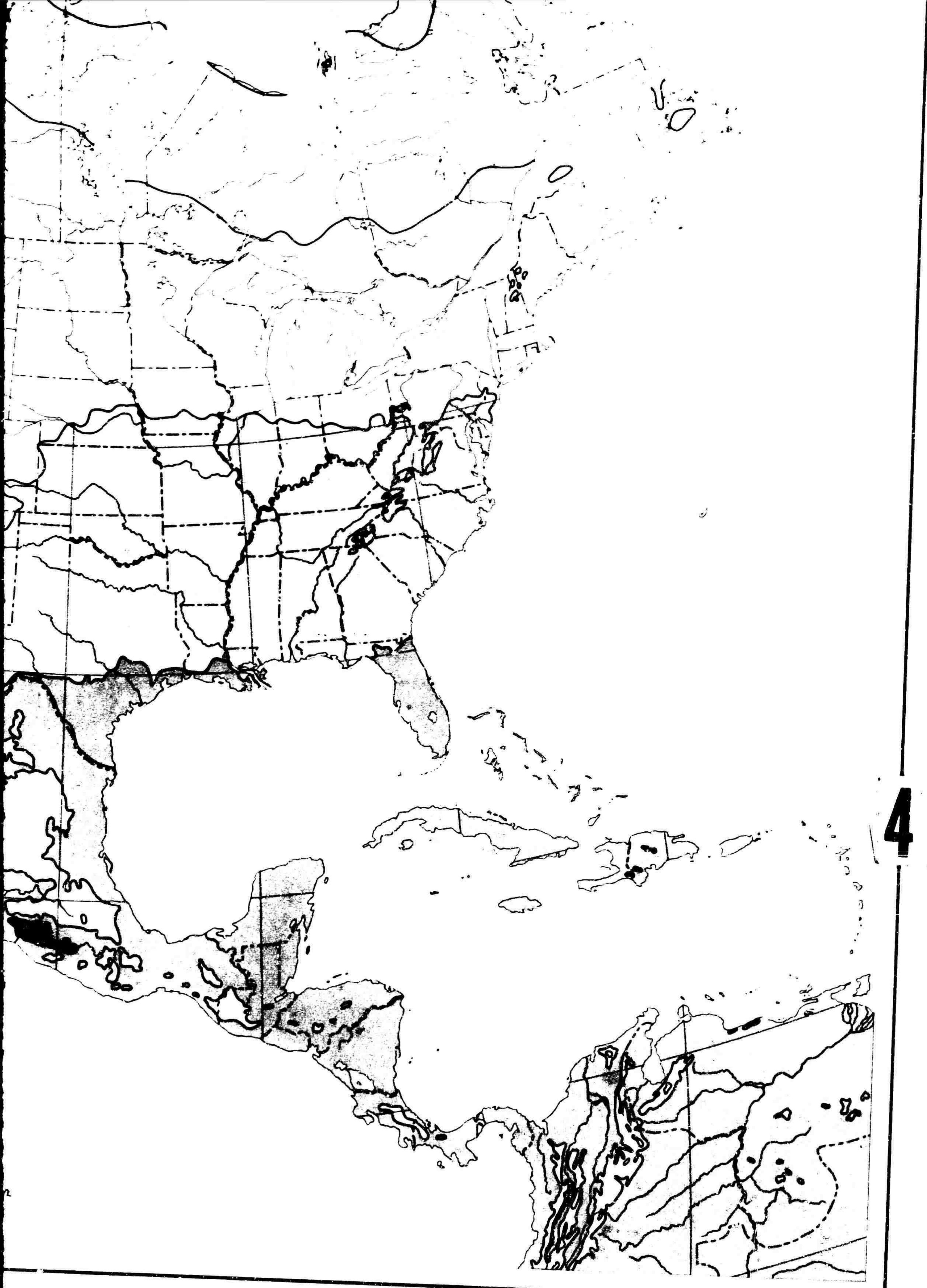
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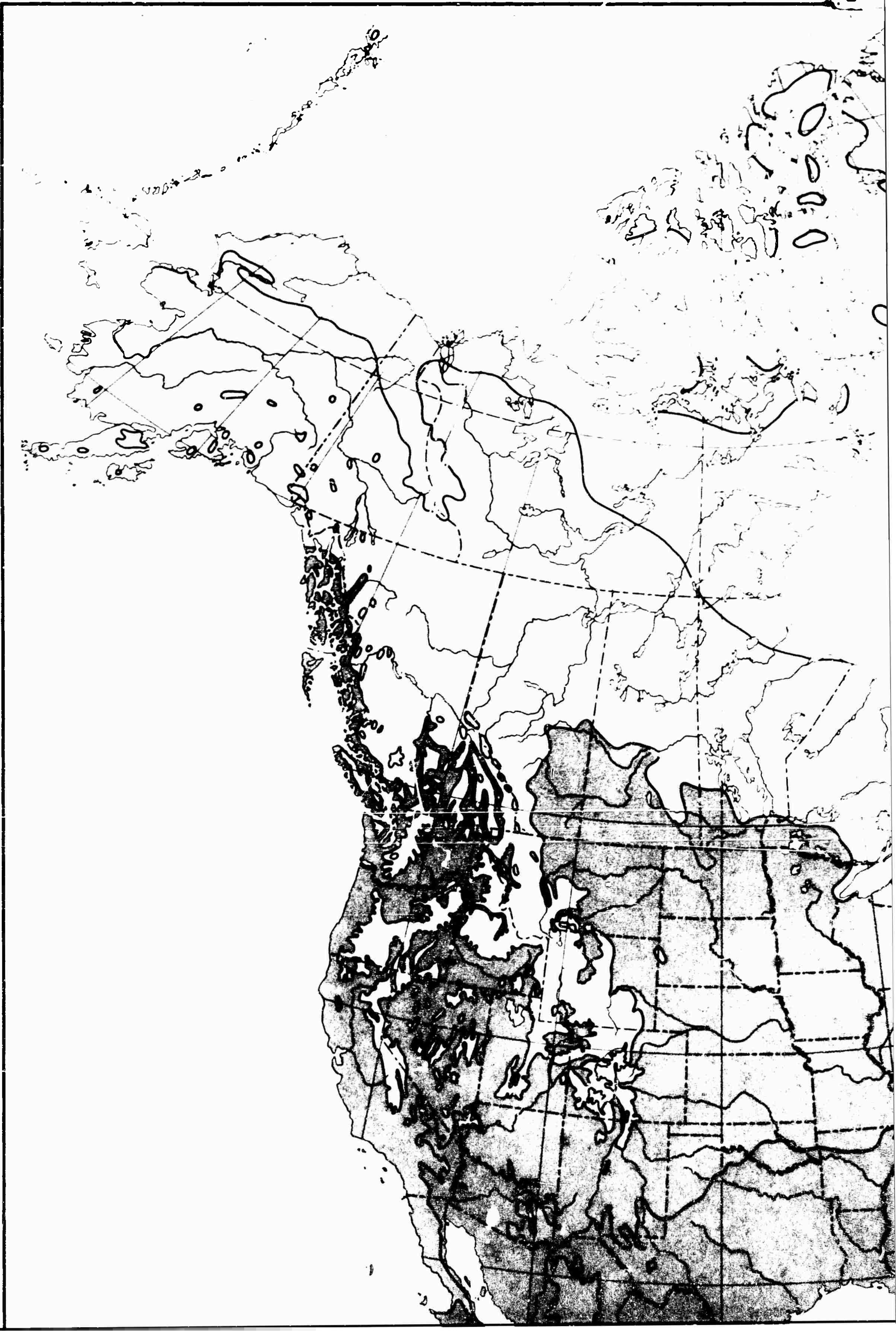

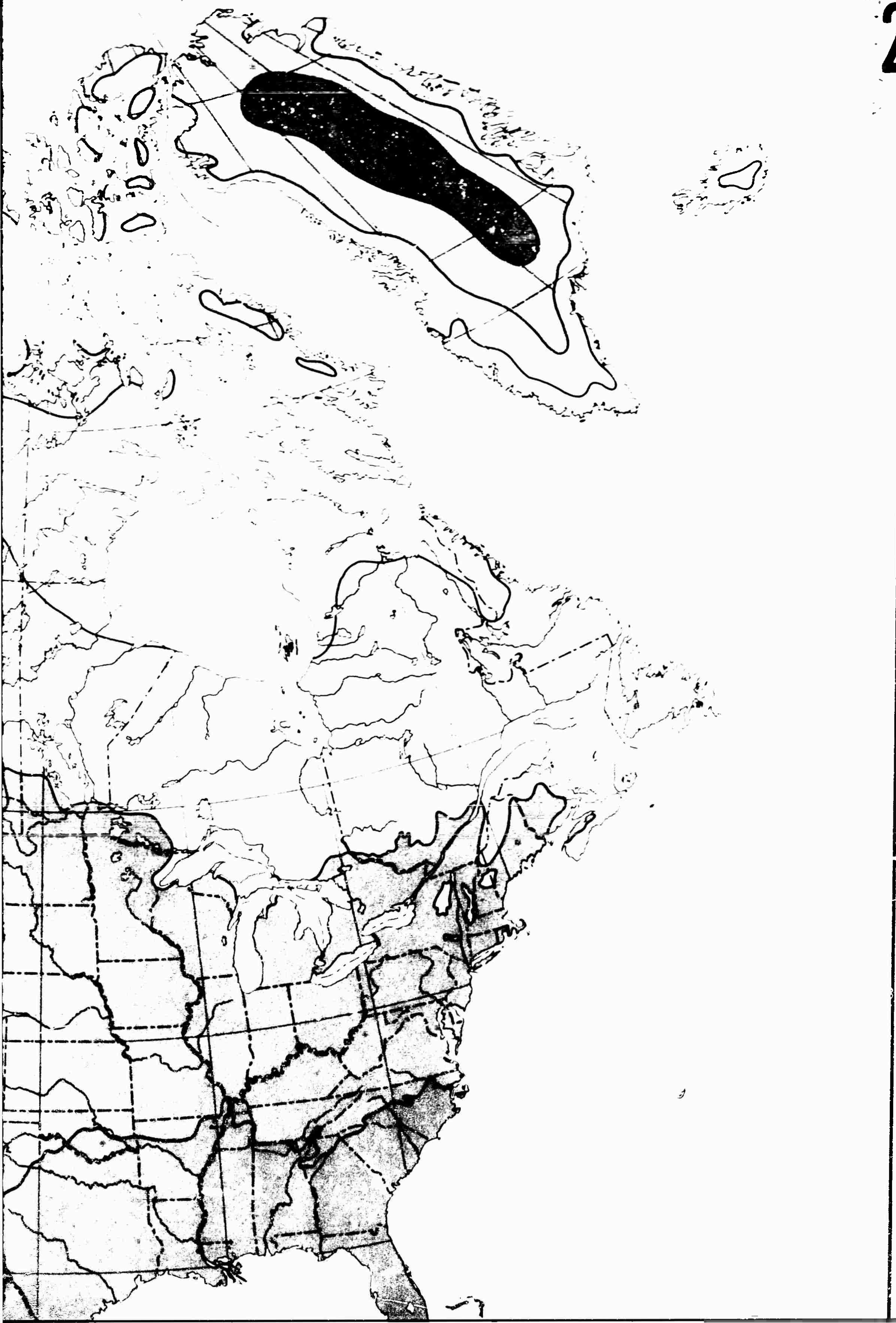

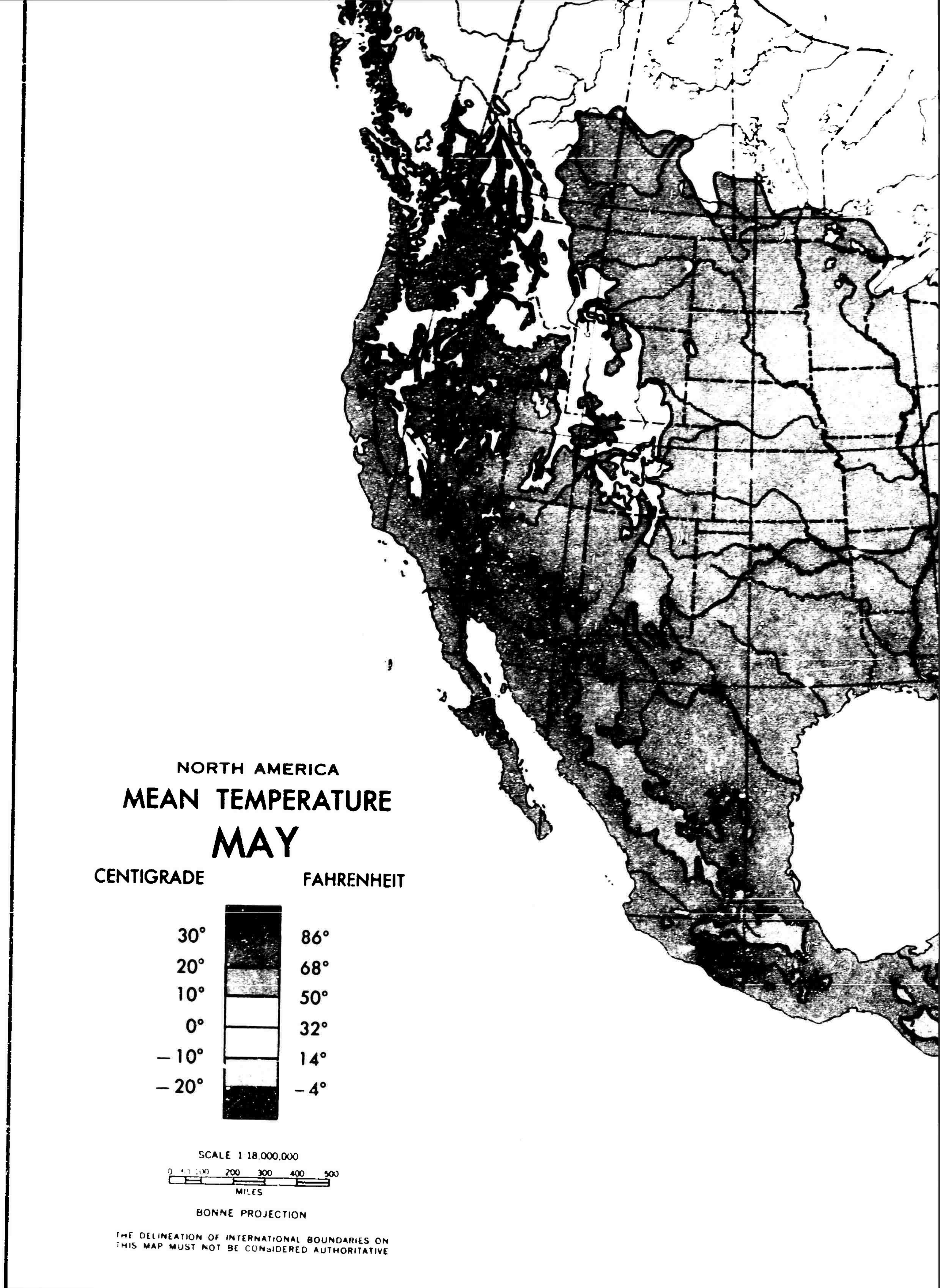
NORTH AMERICA
MEAN TEMPERATURE
MAY
CENTIGRADE
FAHRENHEIT
30° 86°
20° 68°
10° 50°
0° 32°
– 10° 14°
– 20° – 4°
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200 300 400 500
MILES
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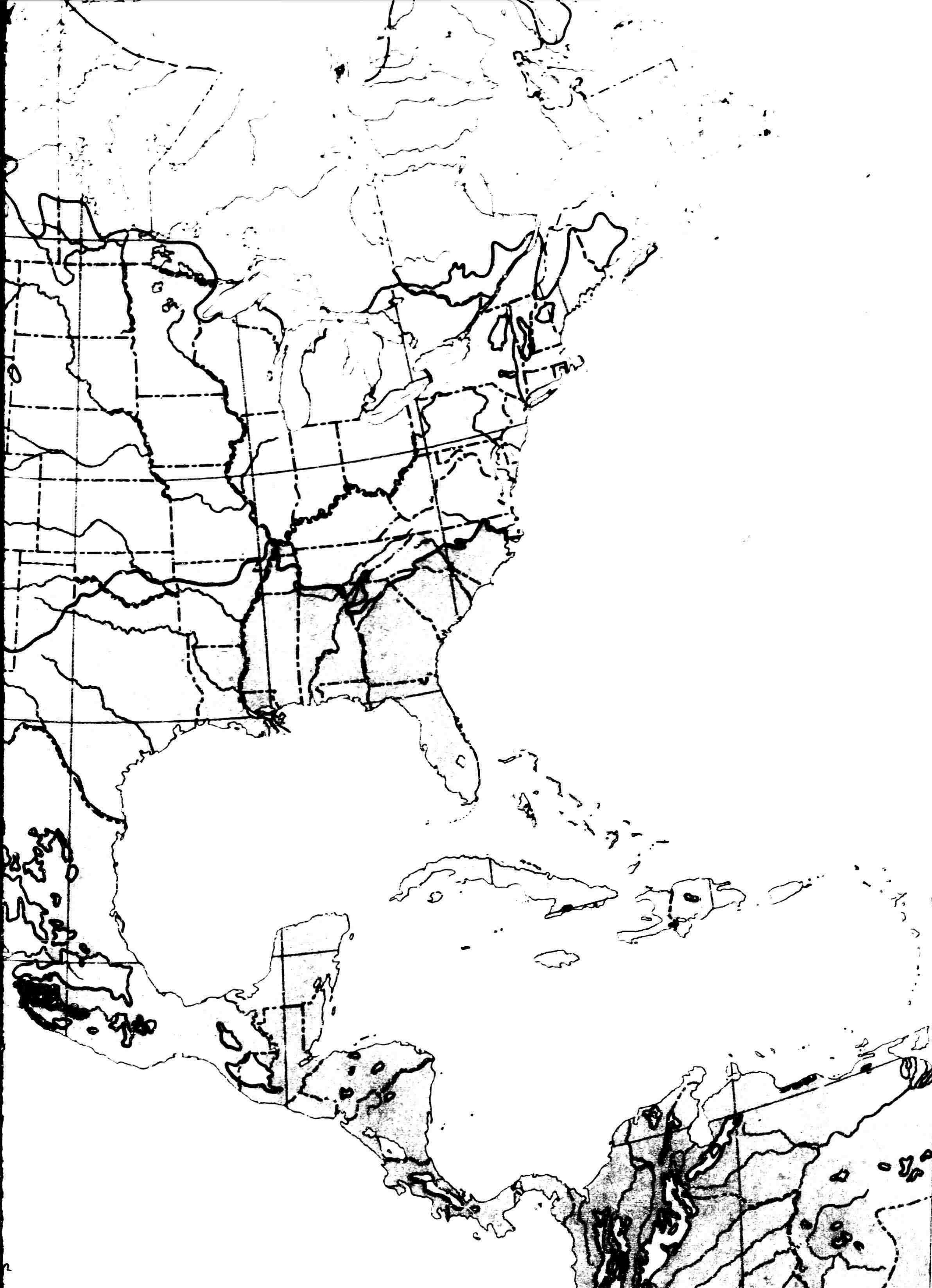

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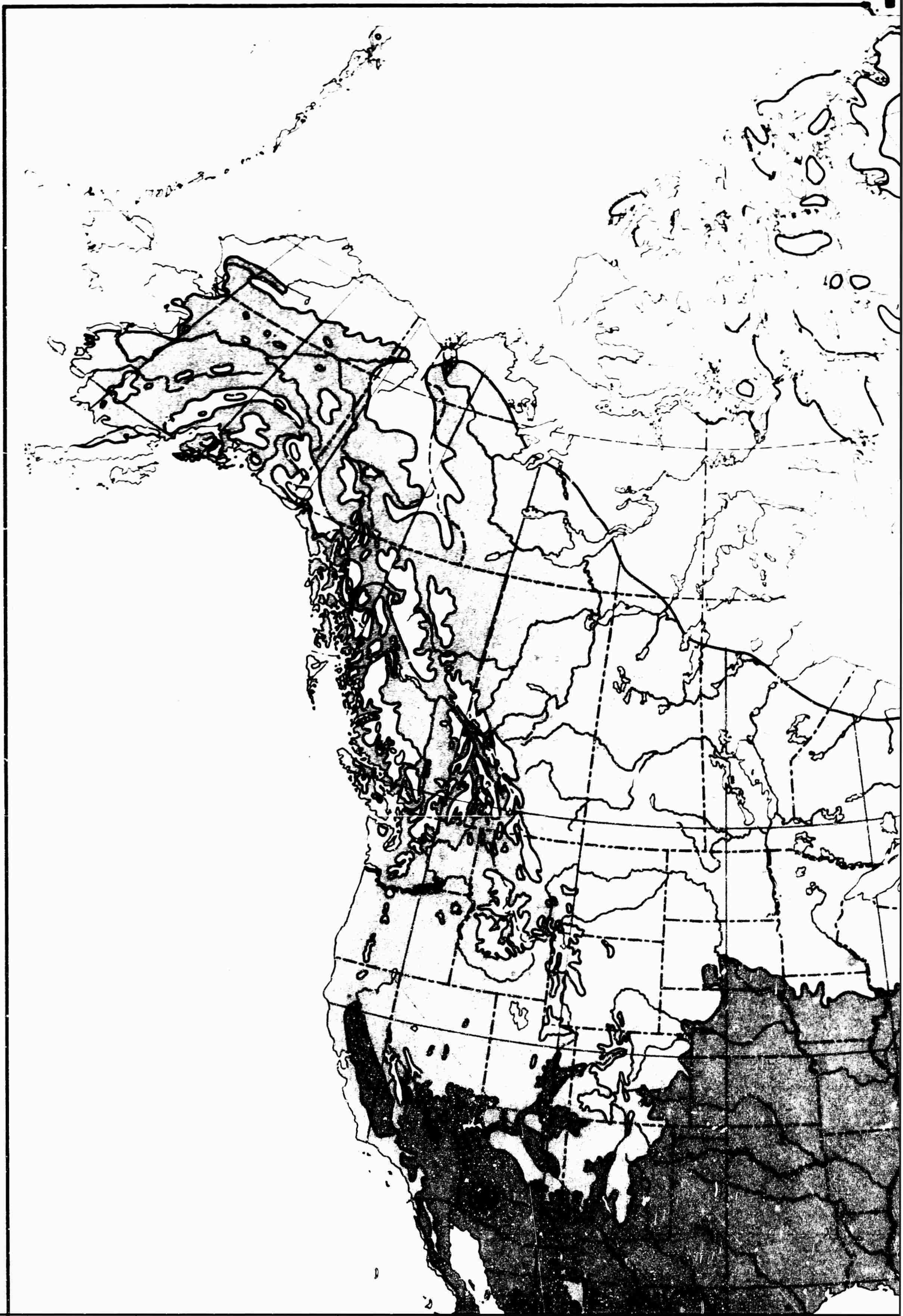

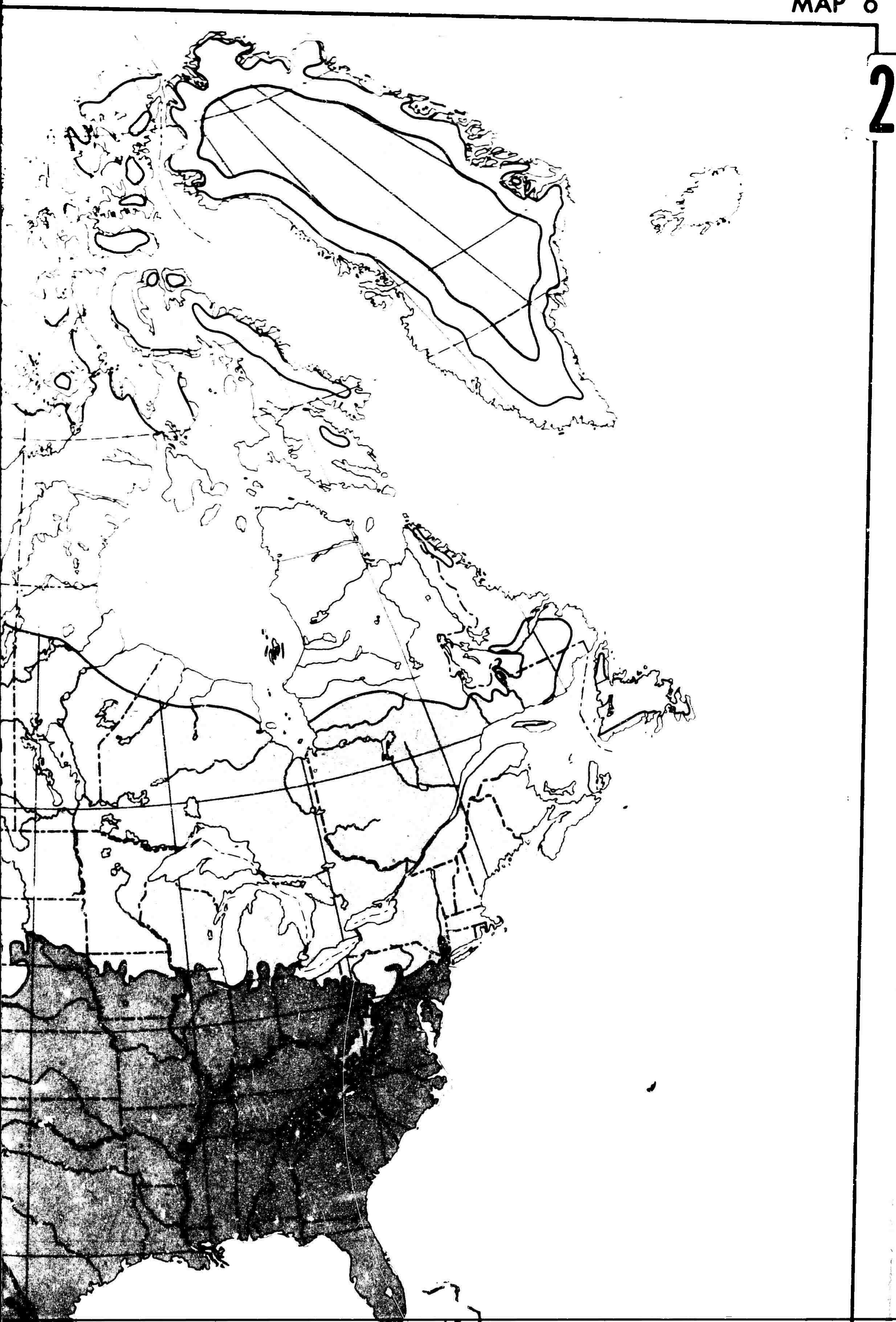
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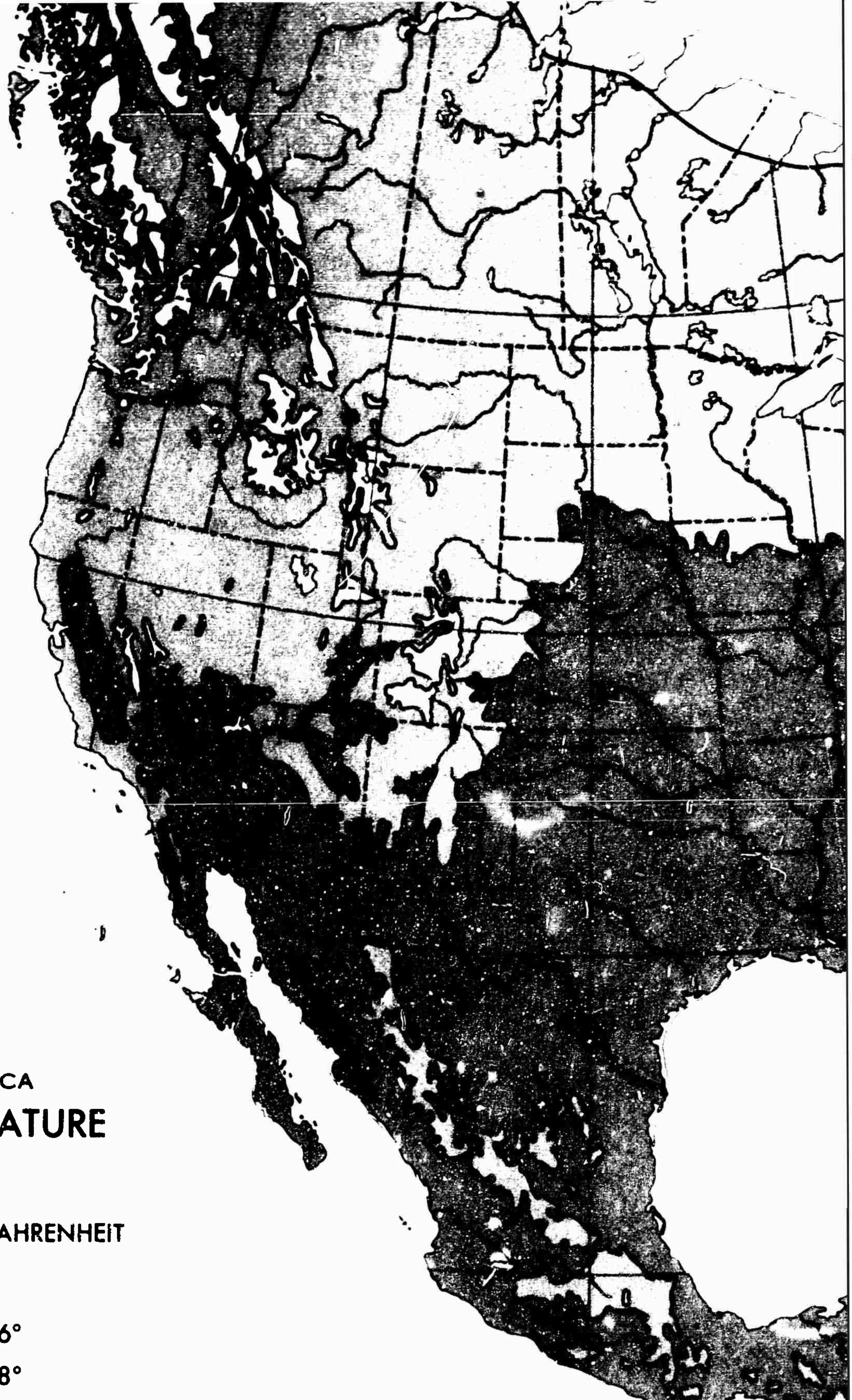

NORTH AMERICA

MEAN TEMPERATURE

JUNE

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
–10°	14°

SCALE 1:18,000,000

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MILES

BONNE PROJECTION

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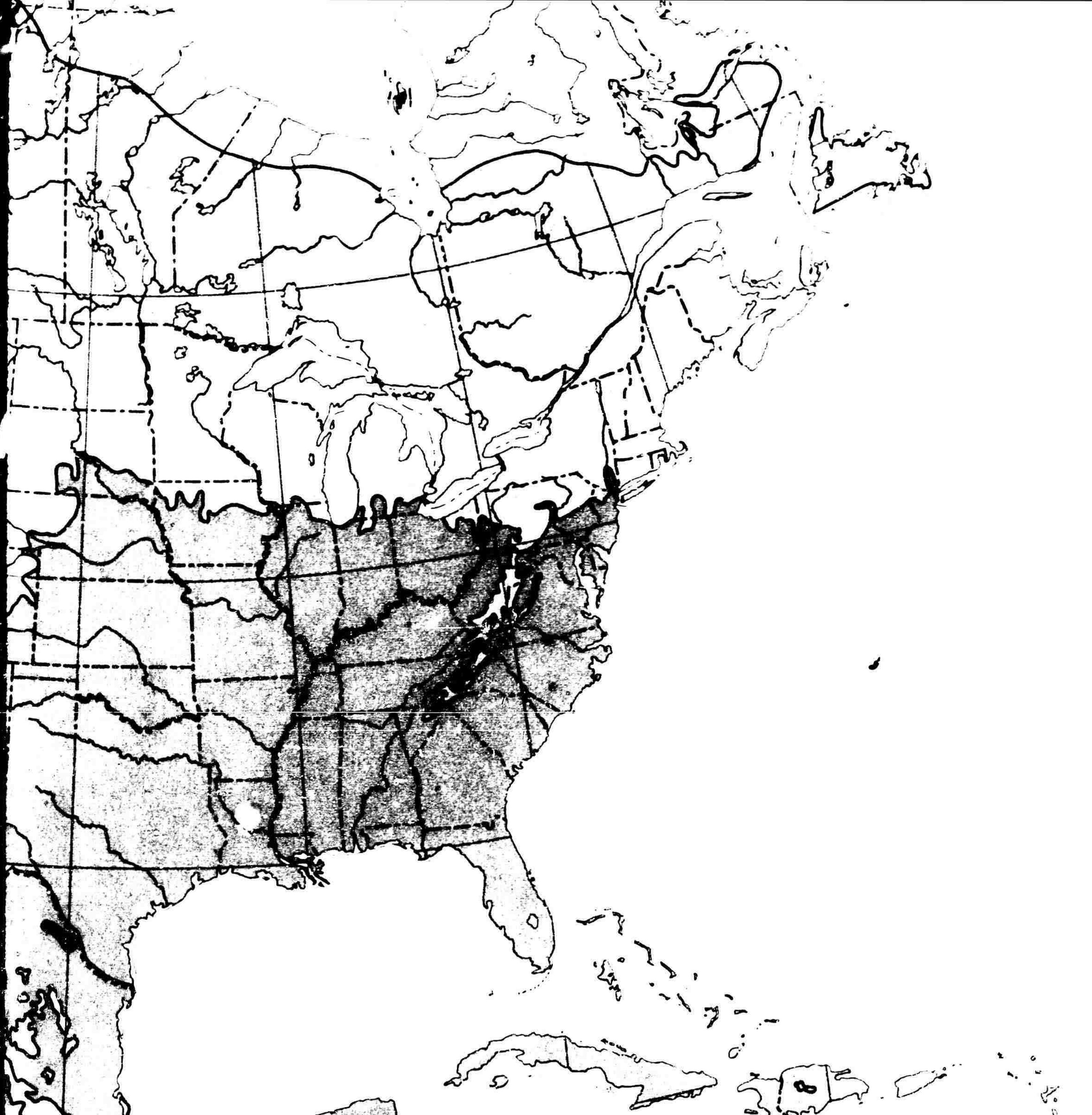

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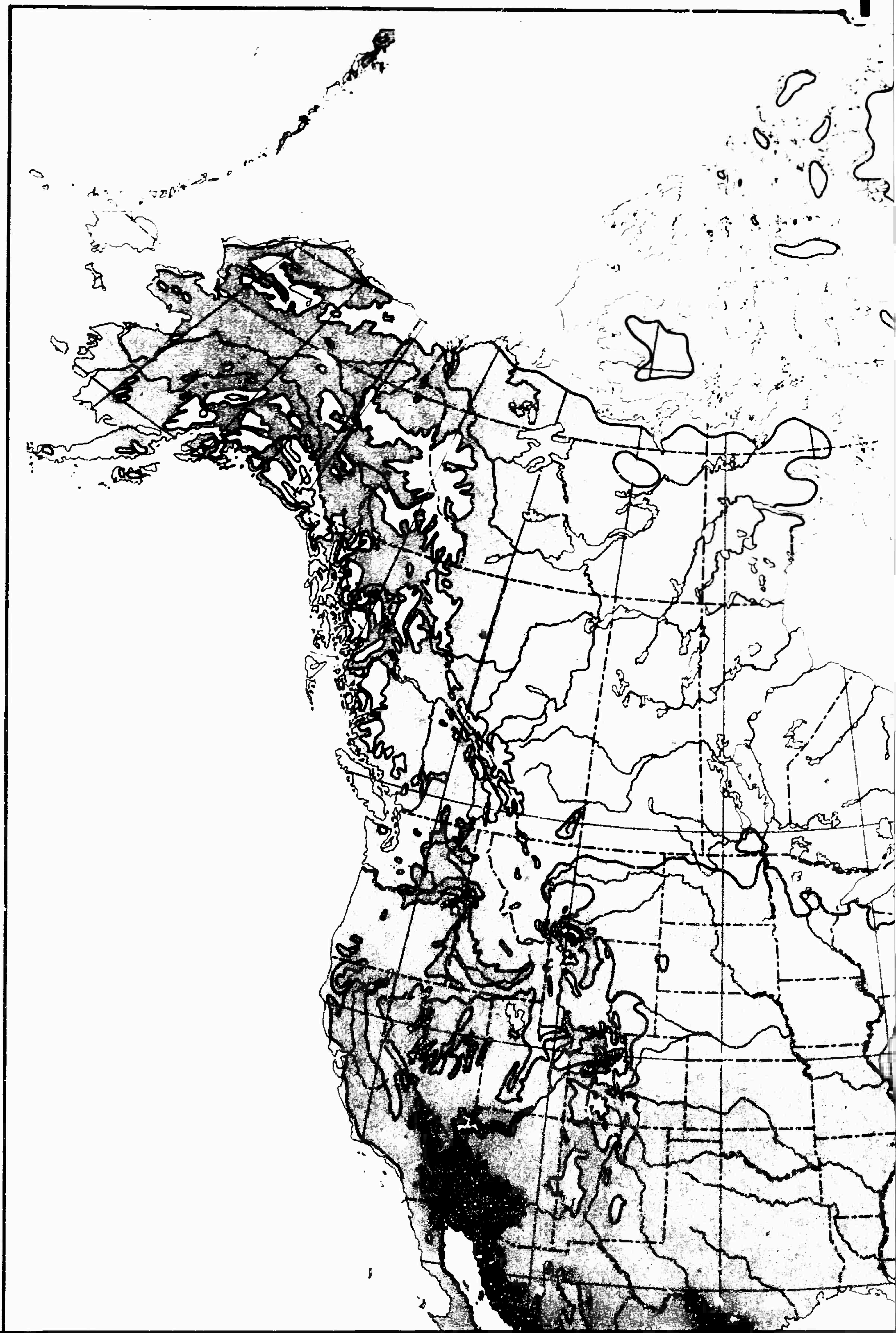

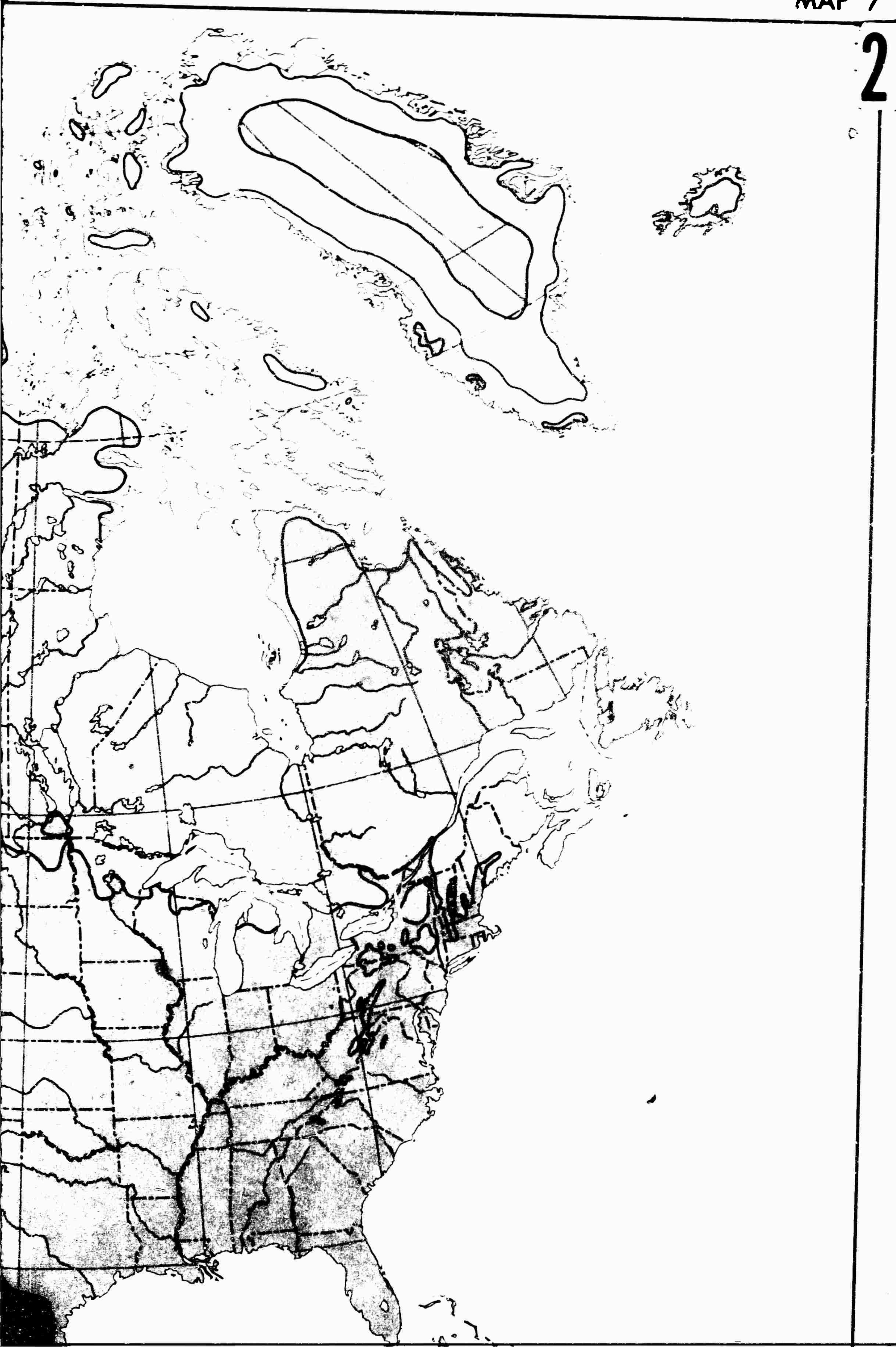

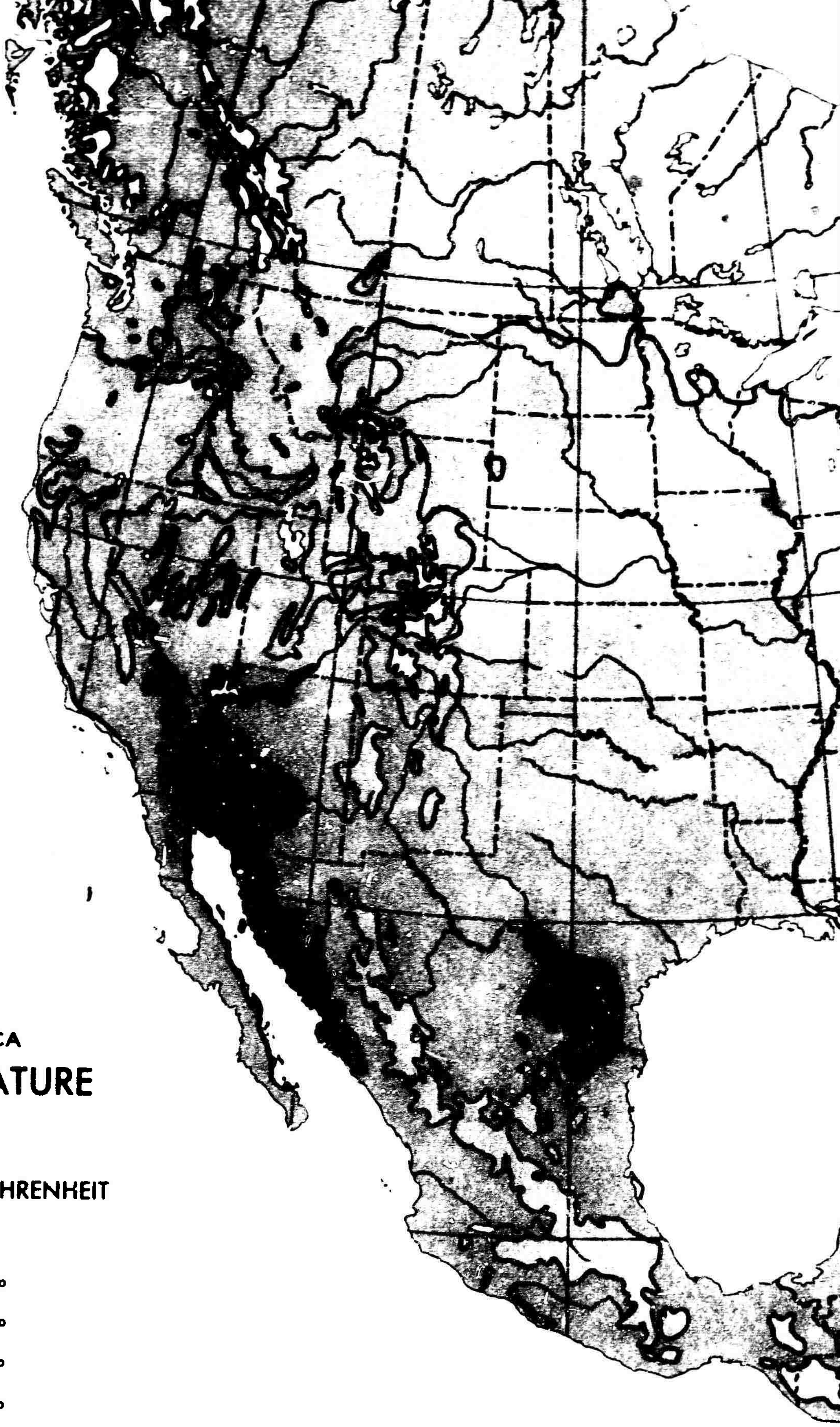

NORTH AMERICA

MEAN TEMPERATURE
JULY

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
−10°	14°

SCALE 1 18,000,000

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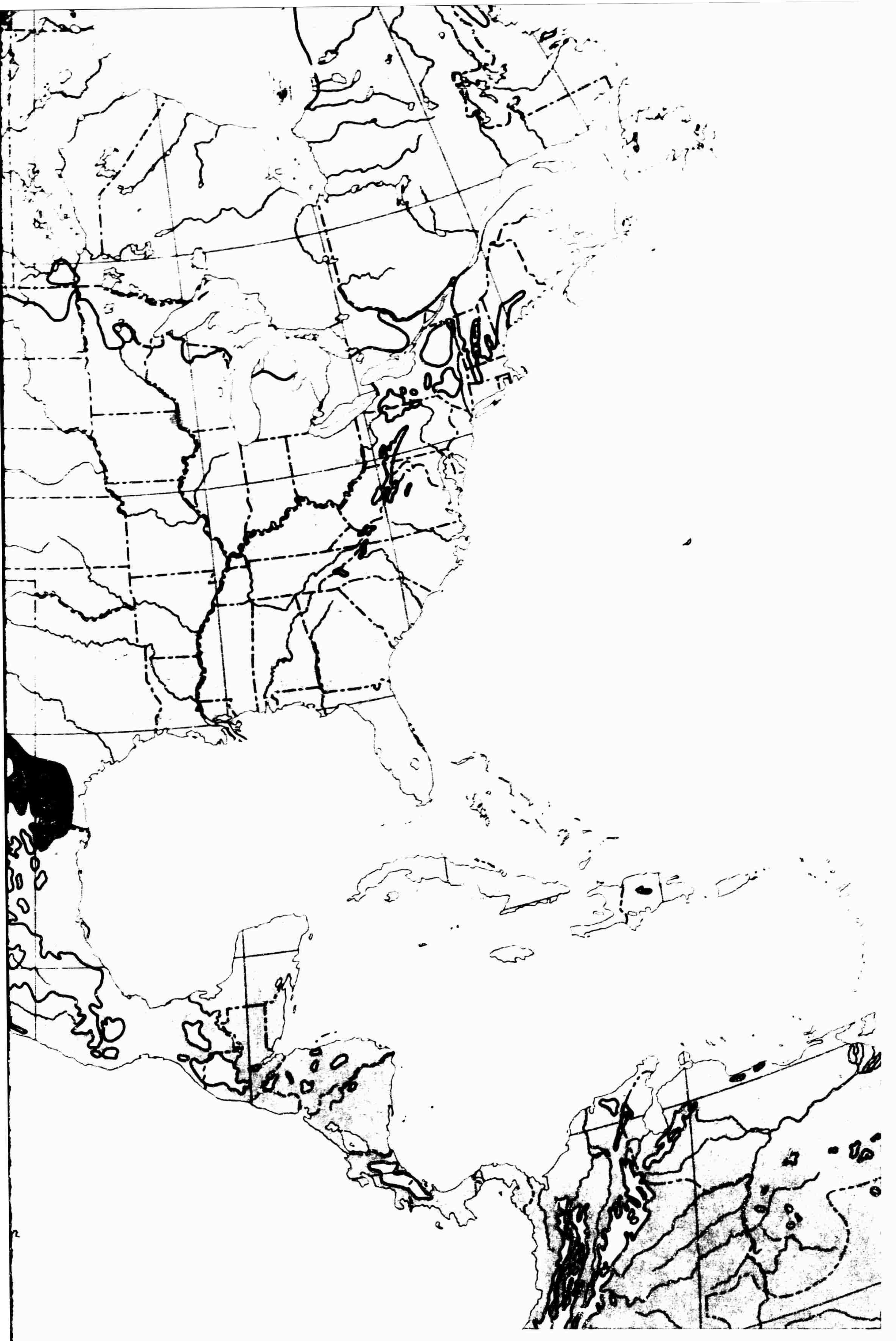

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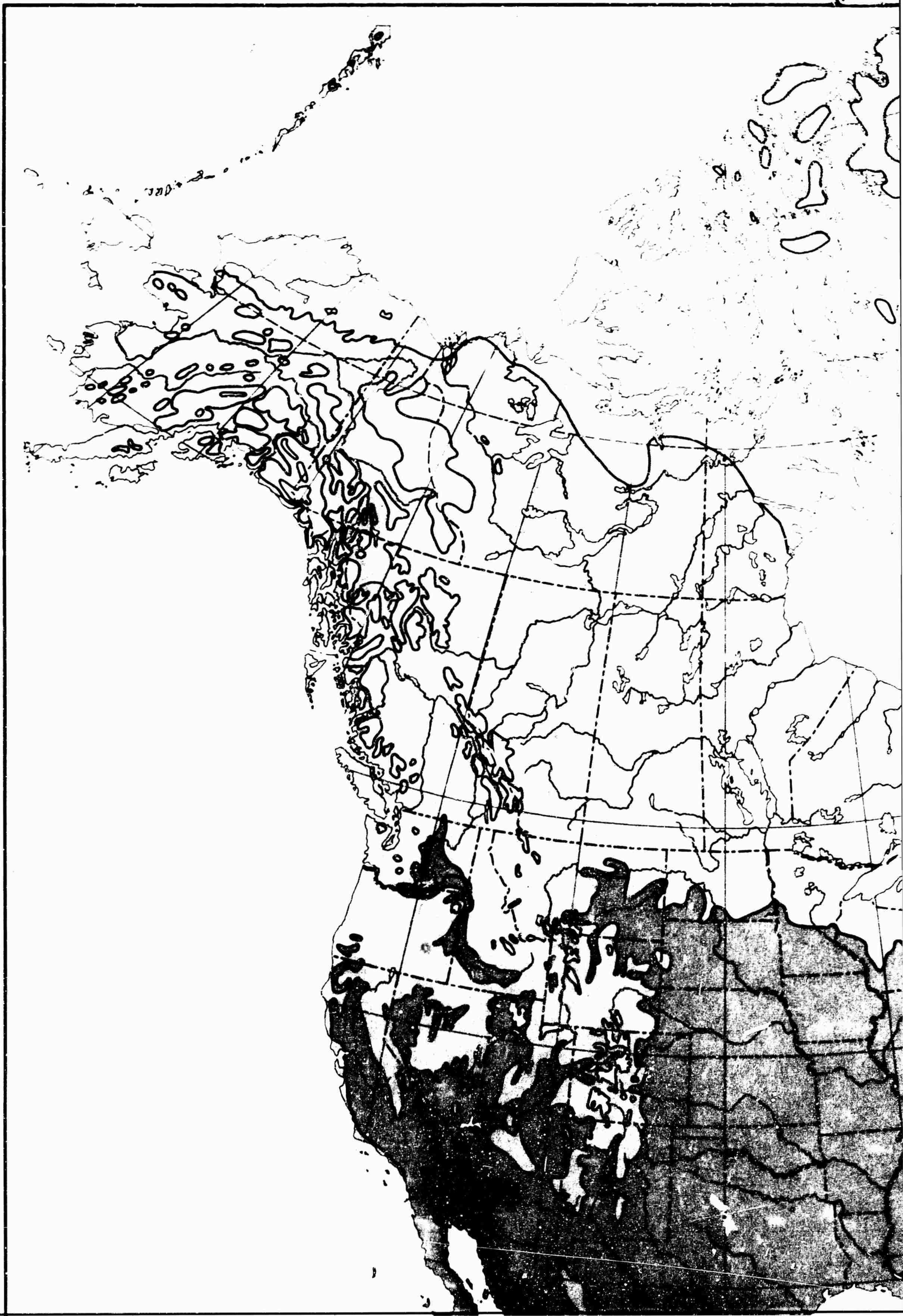
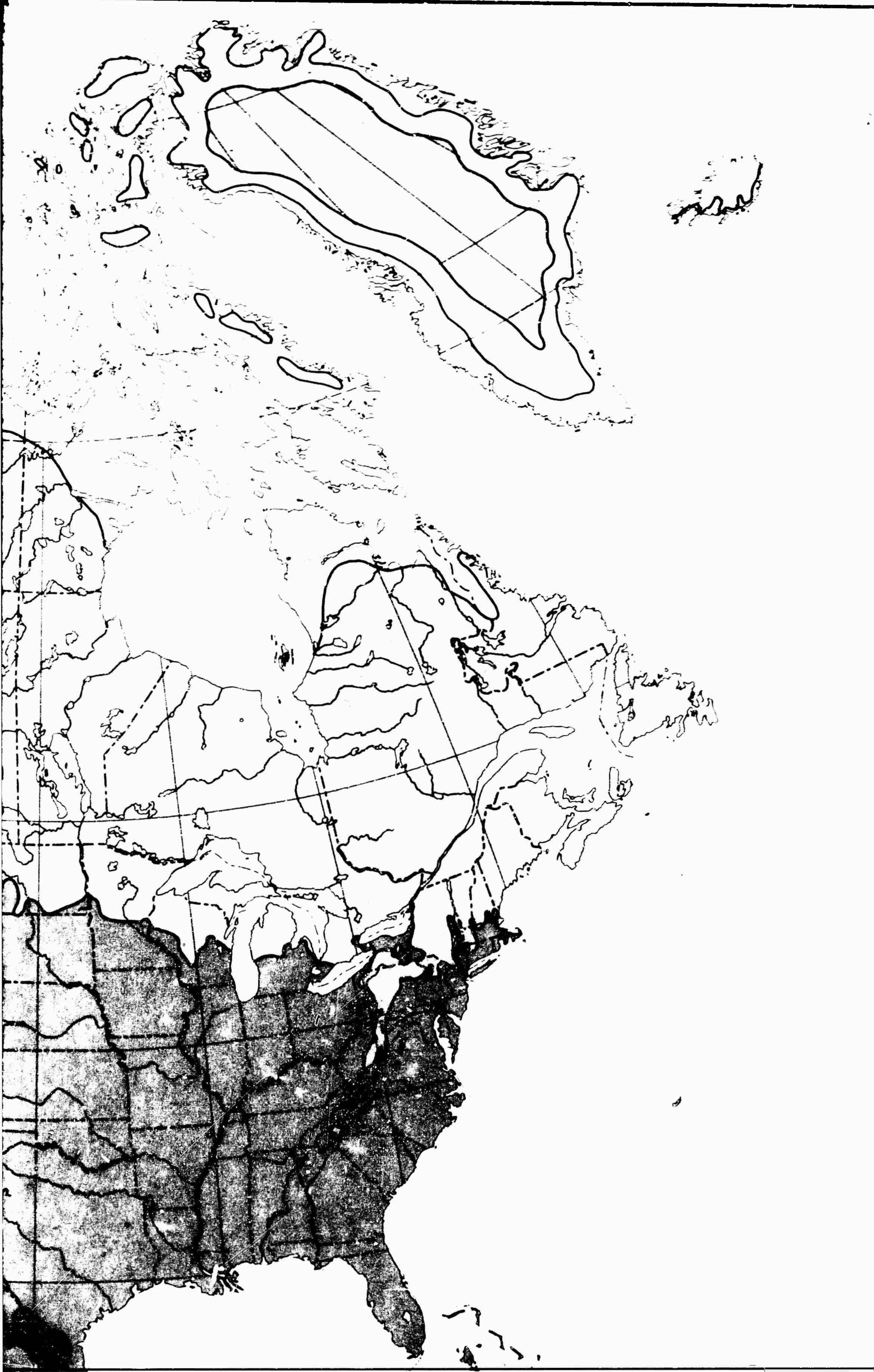
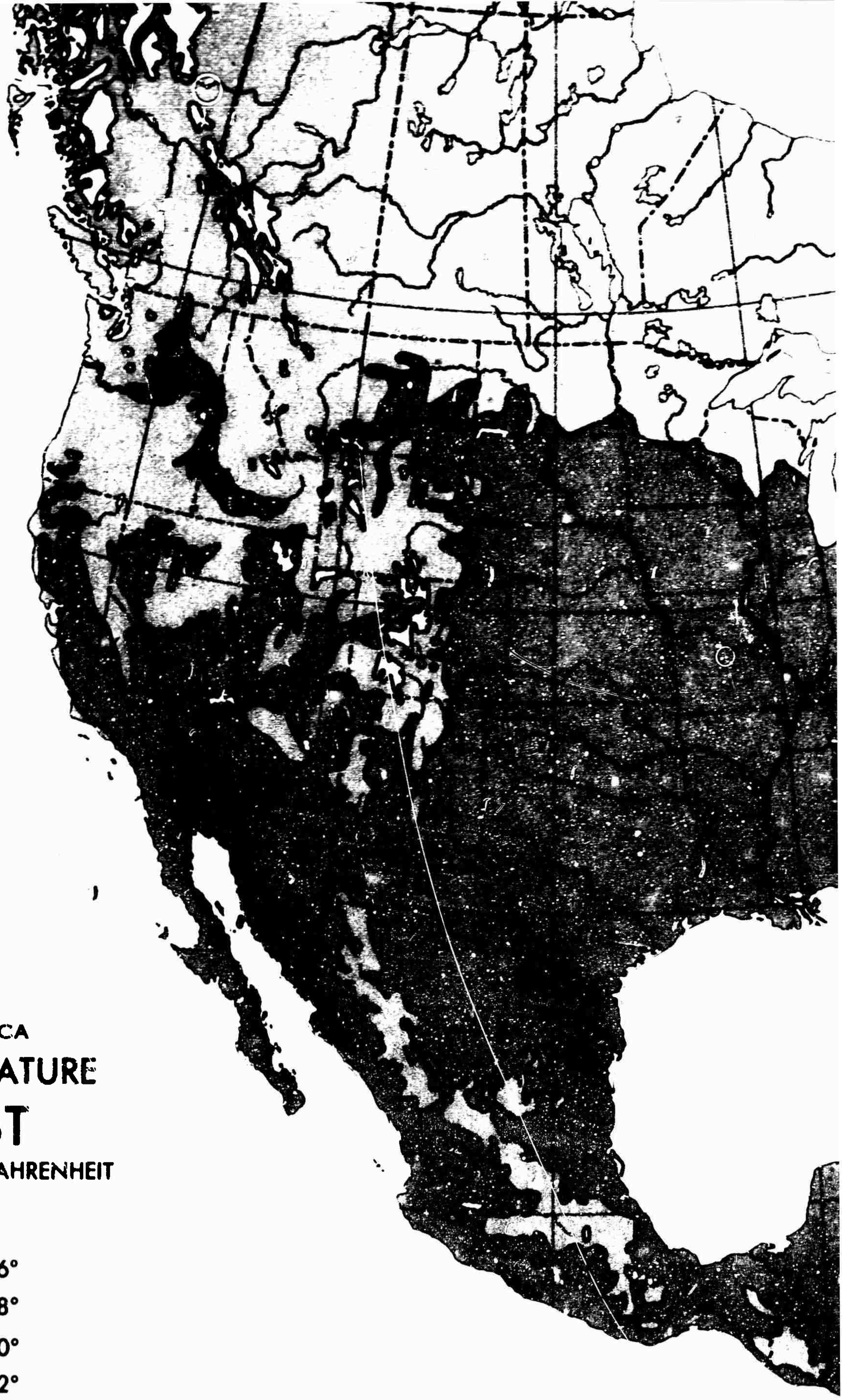


MAP 8

2





NORTH AMERICA

MEAN TEMPERATURE

AUGUST

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
– 10°	14°

SCALE 1:15,000,000

0 50 100 200 300 400 500

MILES

BONNE PROJECTION

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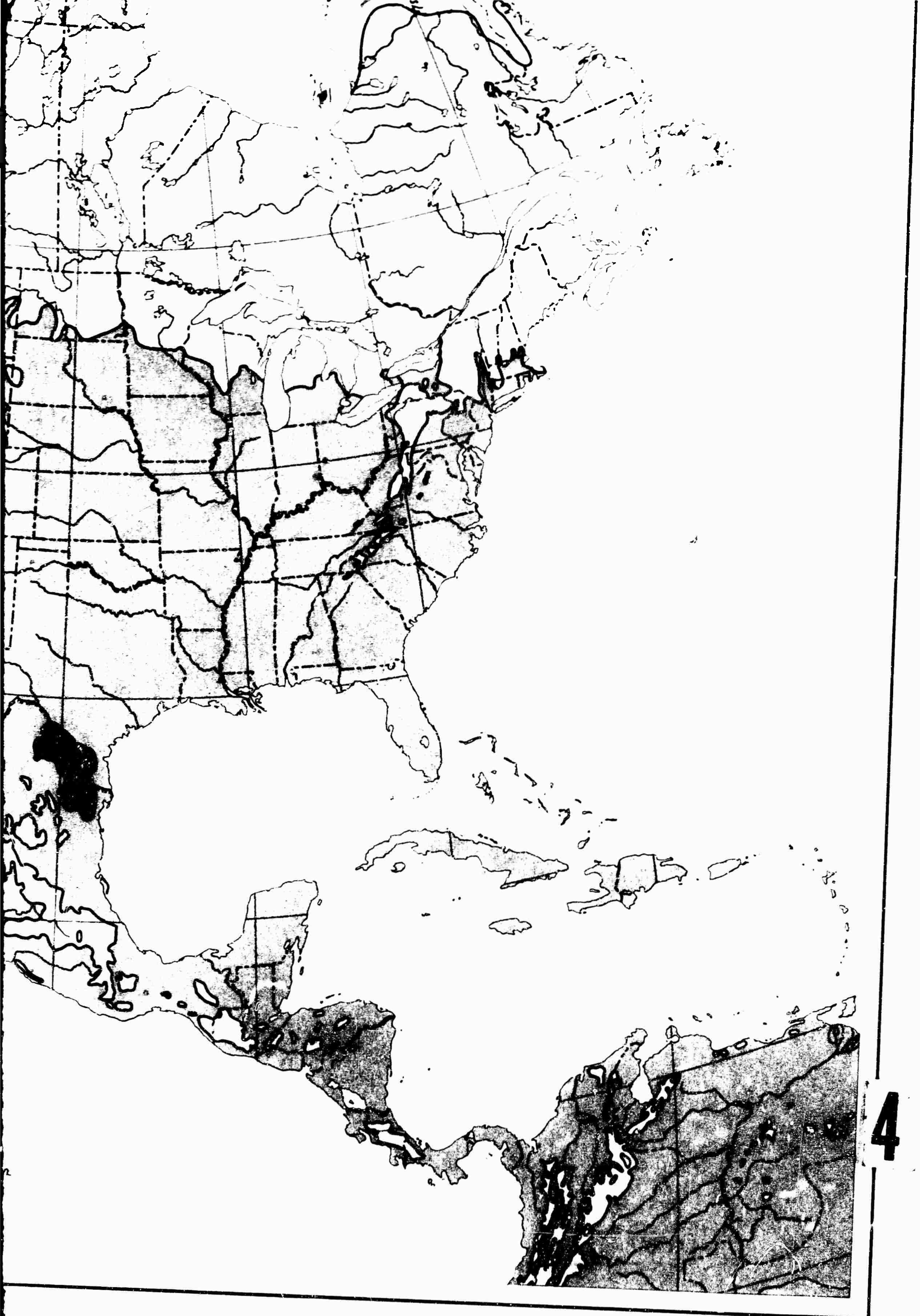

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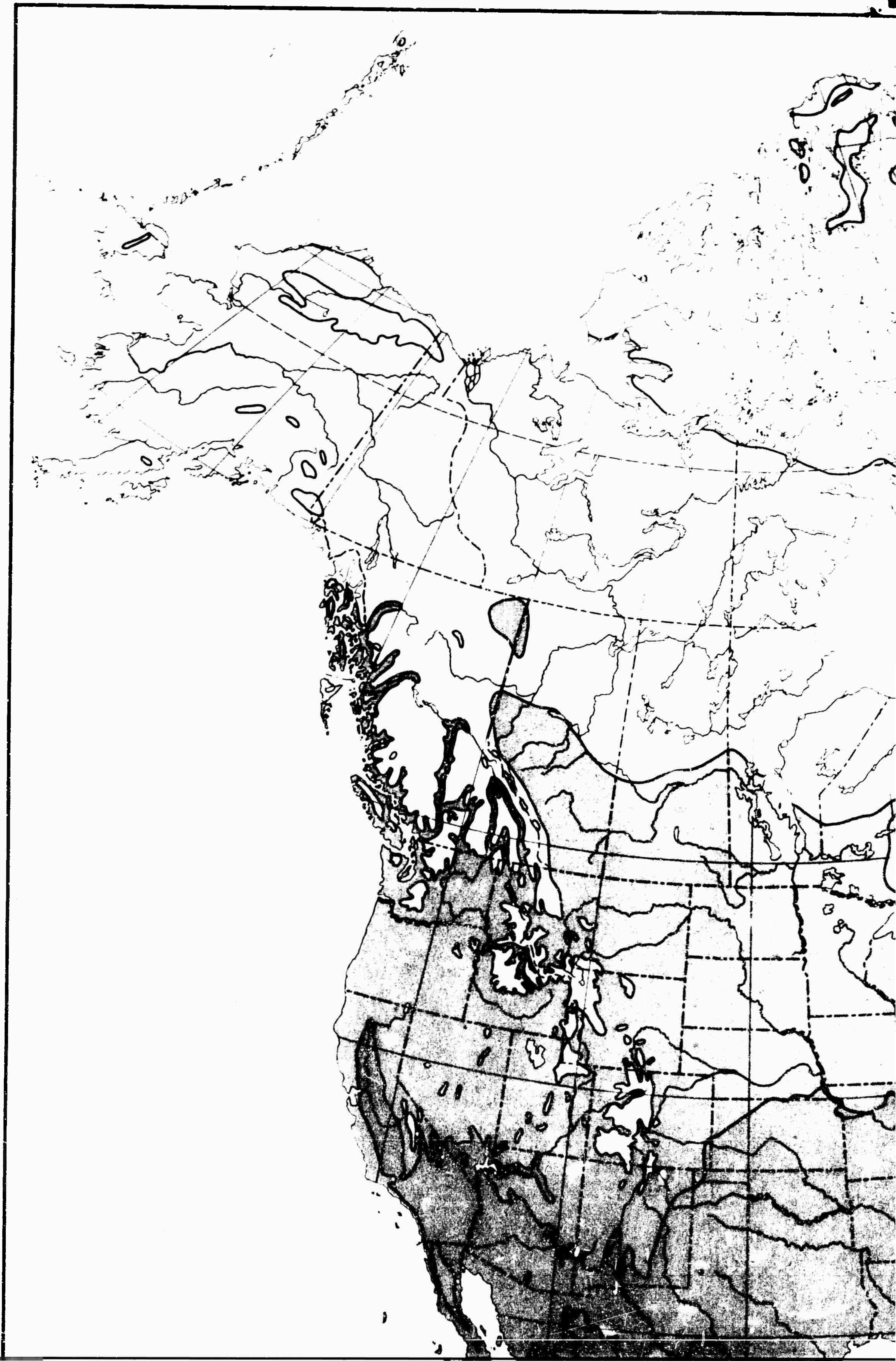
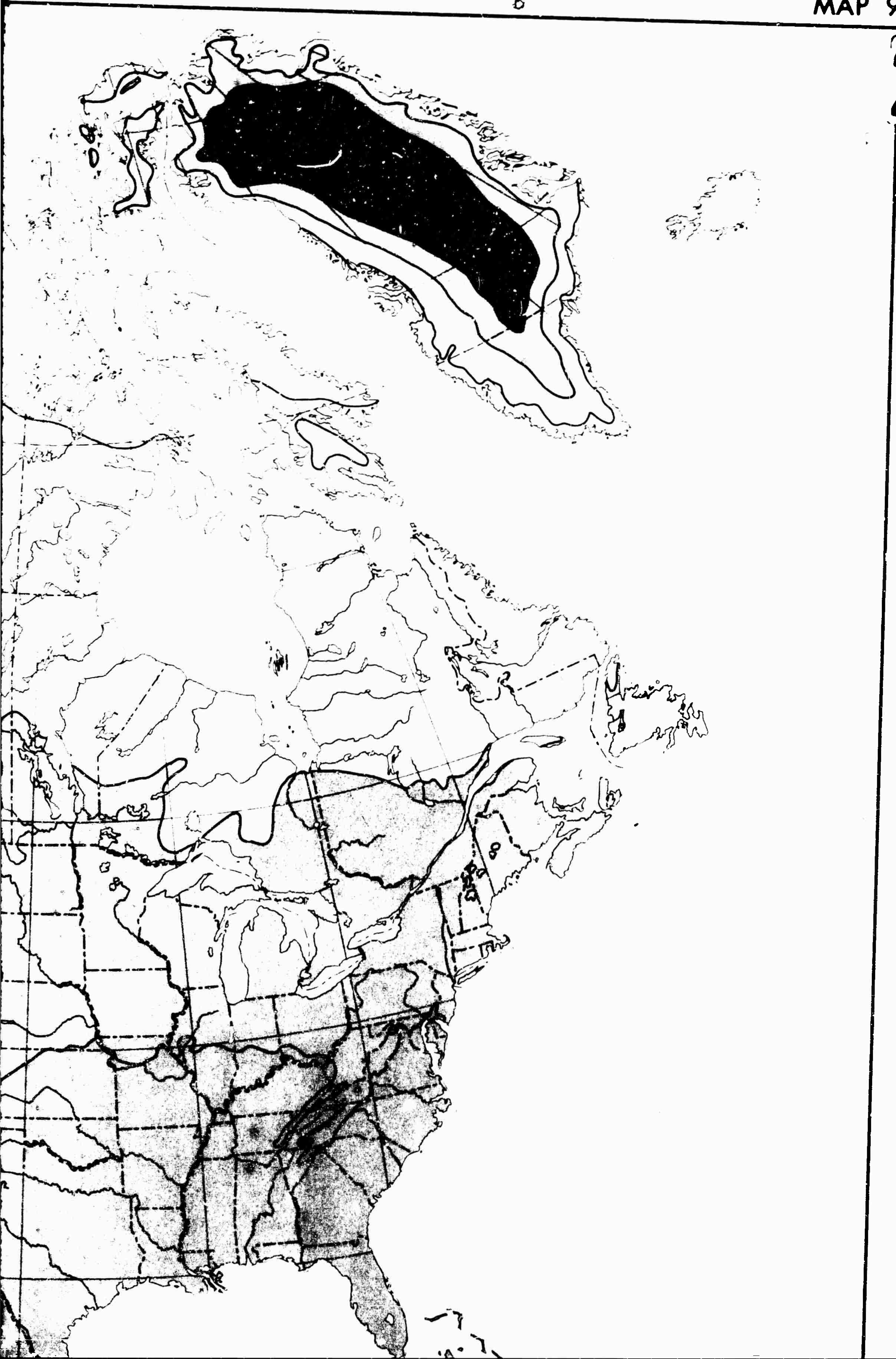
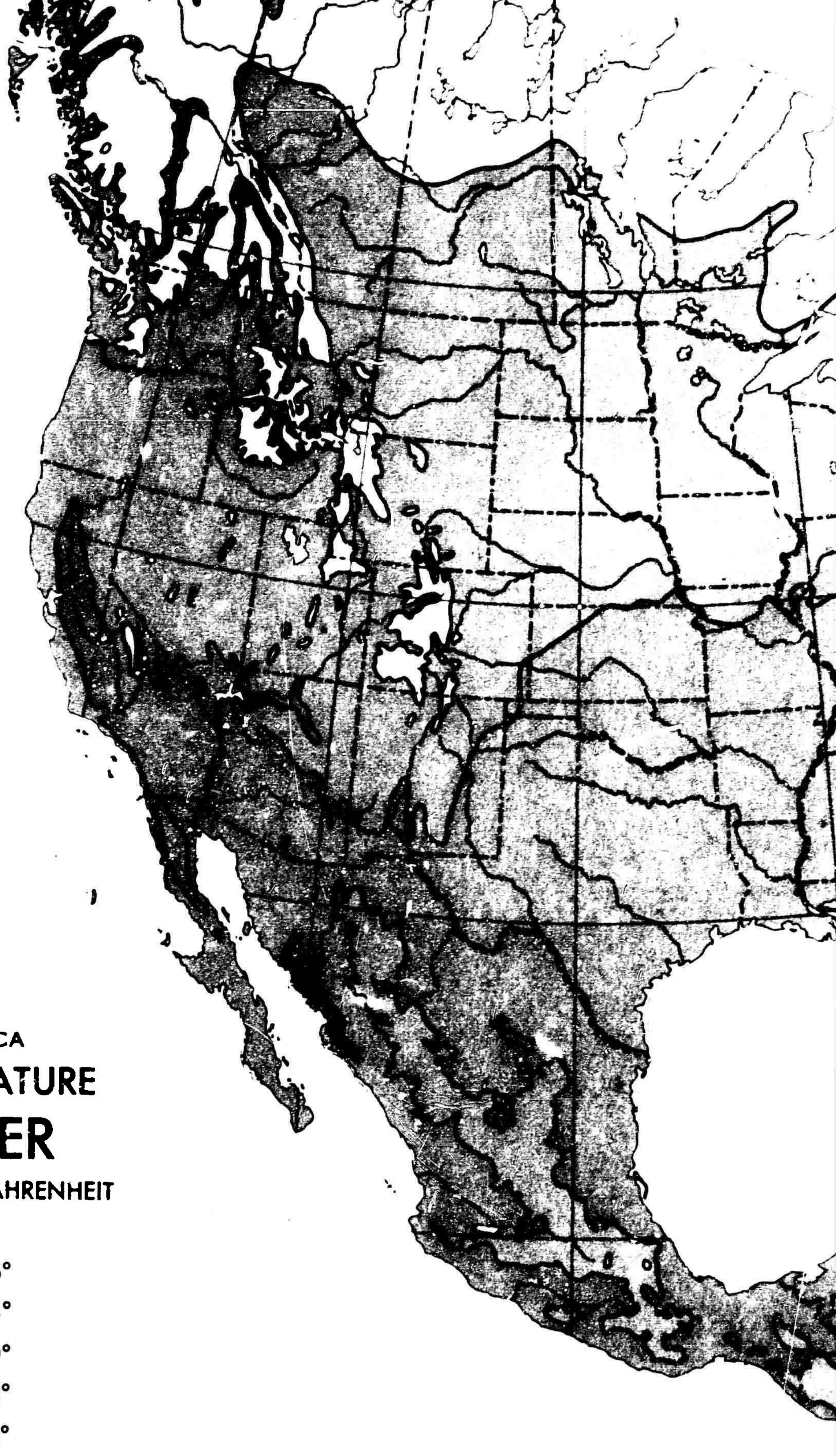






NORTH AMERICA

MEAN TEMPERATURE

SEPTEMBER

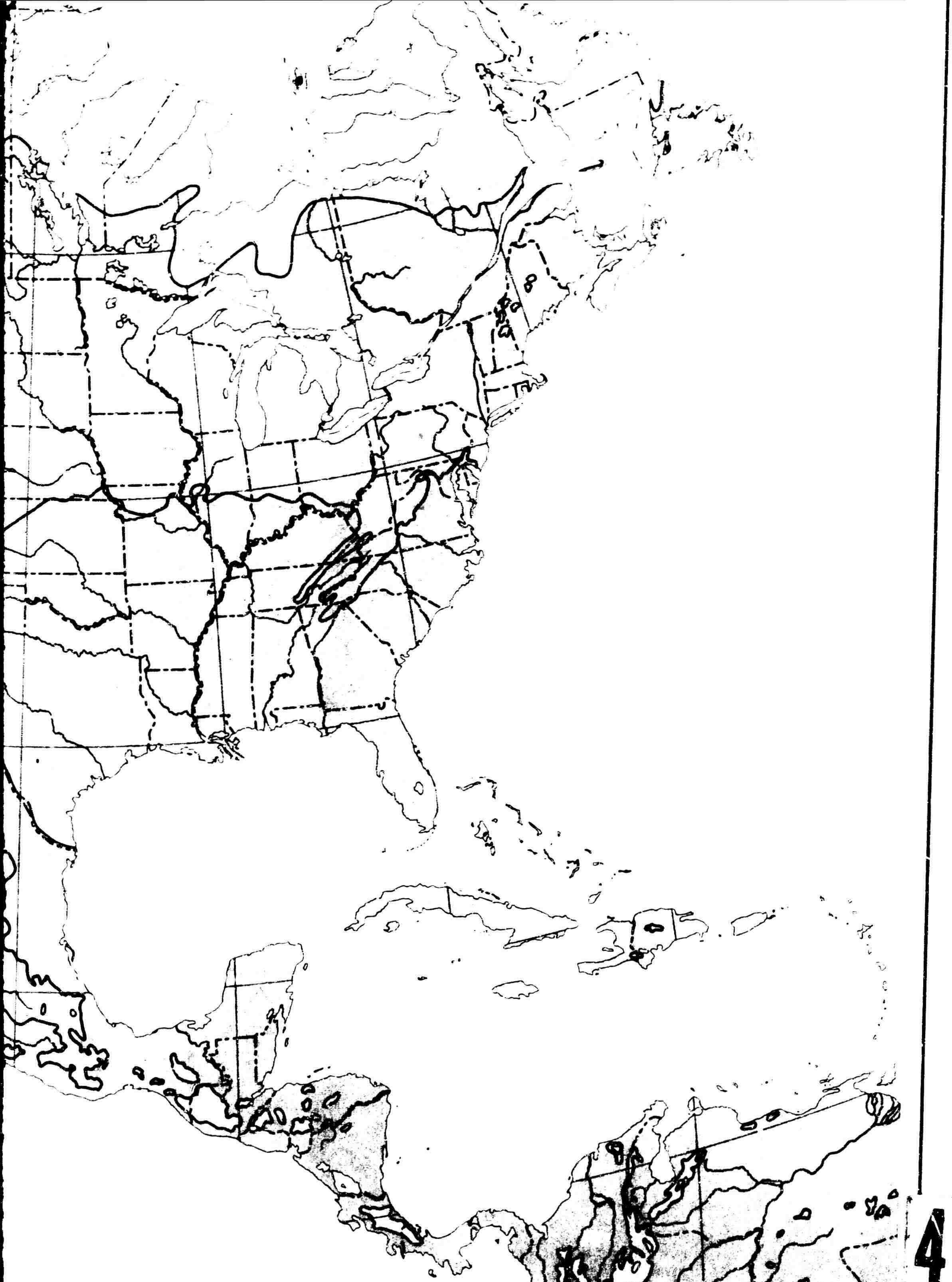
CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
–10°	14°
–20°	–4°

SCALE 1:18,000,000

0 50 100 200 300 400 500
MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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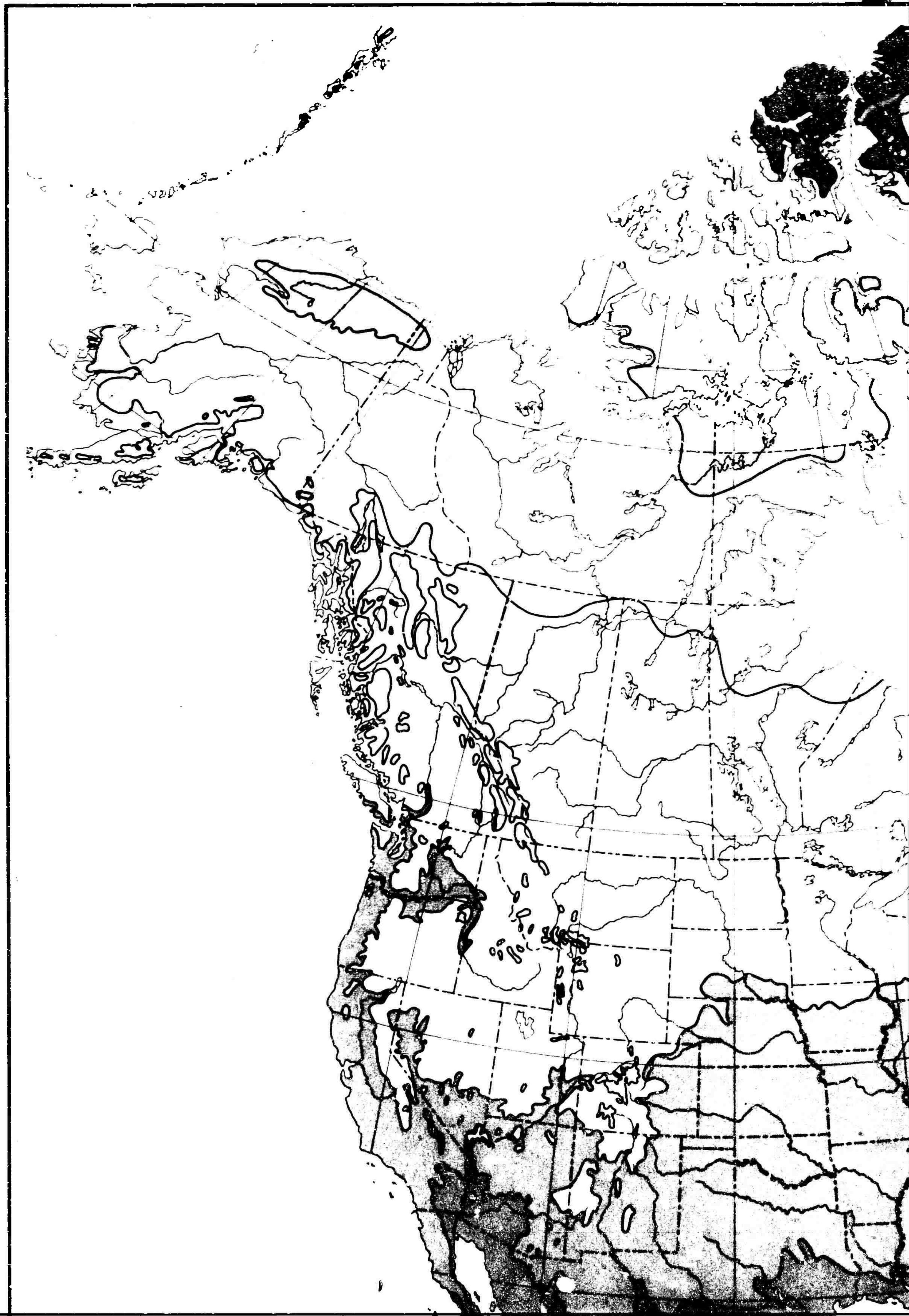

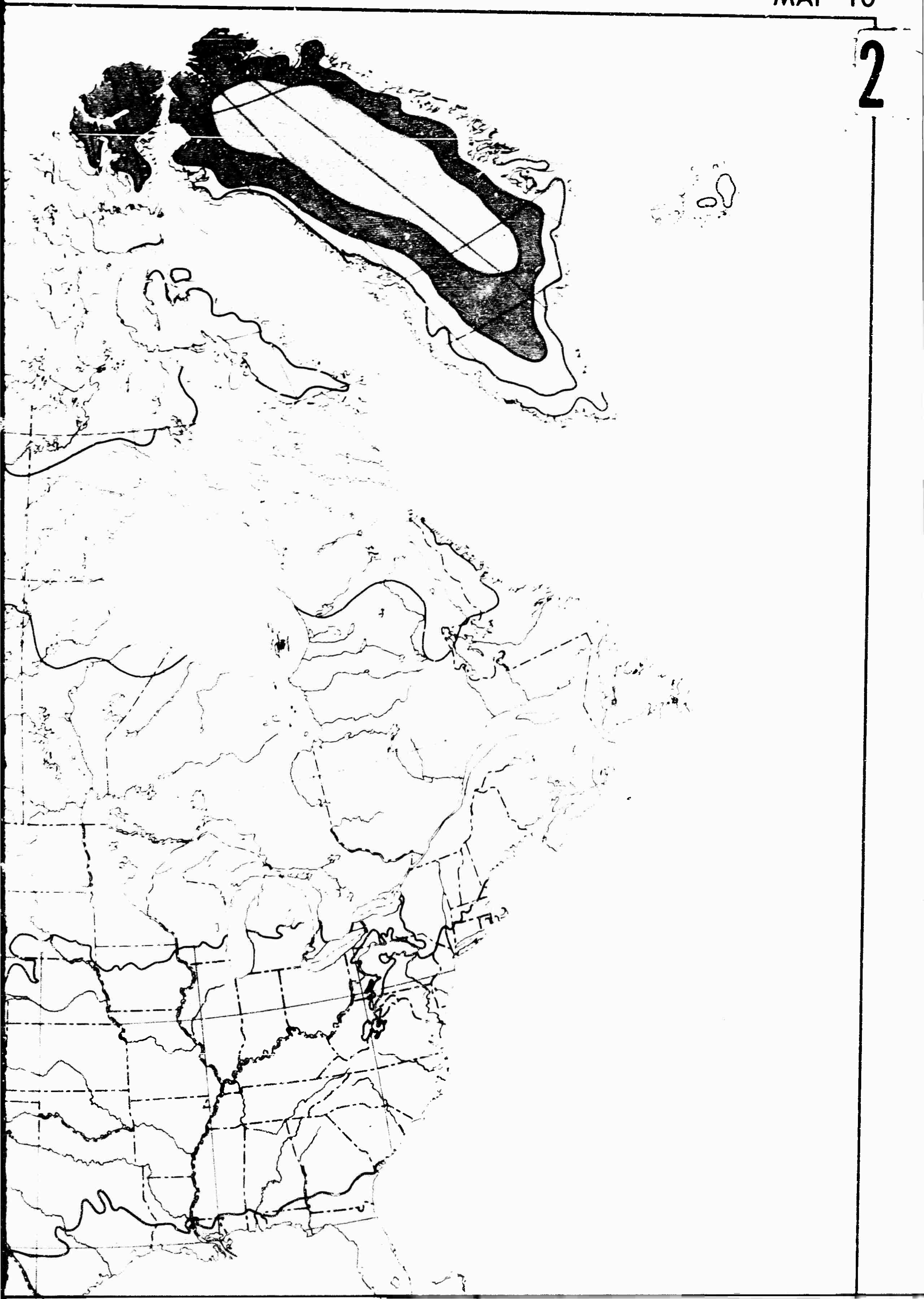
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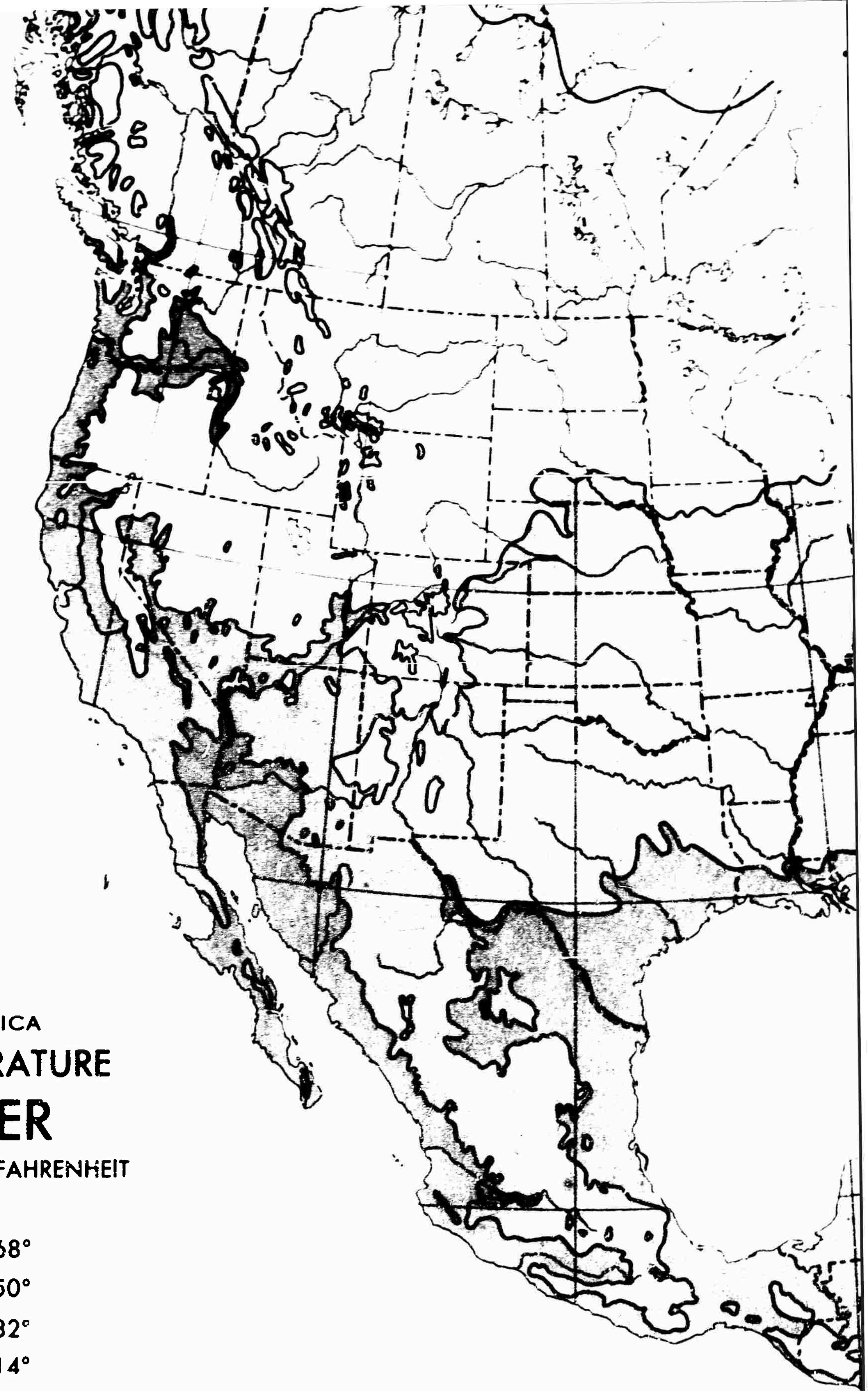


NORTH AMERICA

MEAN TEMPERATURE

OCTOBER

CENTIGRADE	FAHRENHEIT
20°	68°
10°	50°
0°	32°
– 10°	14°
– 20°	– 4°
– 30°	– 22°

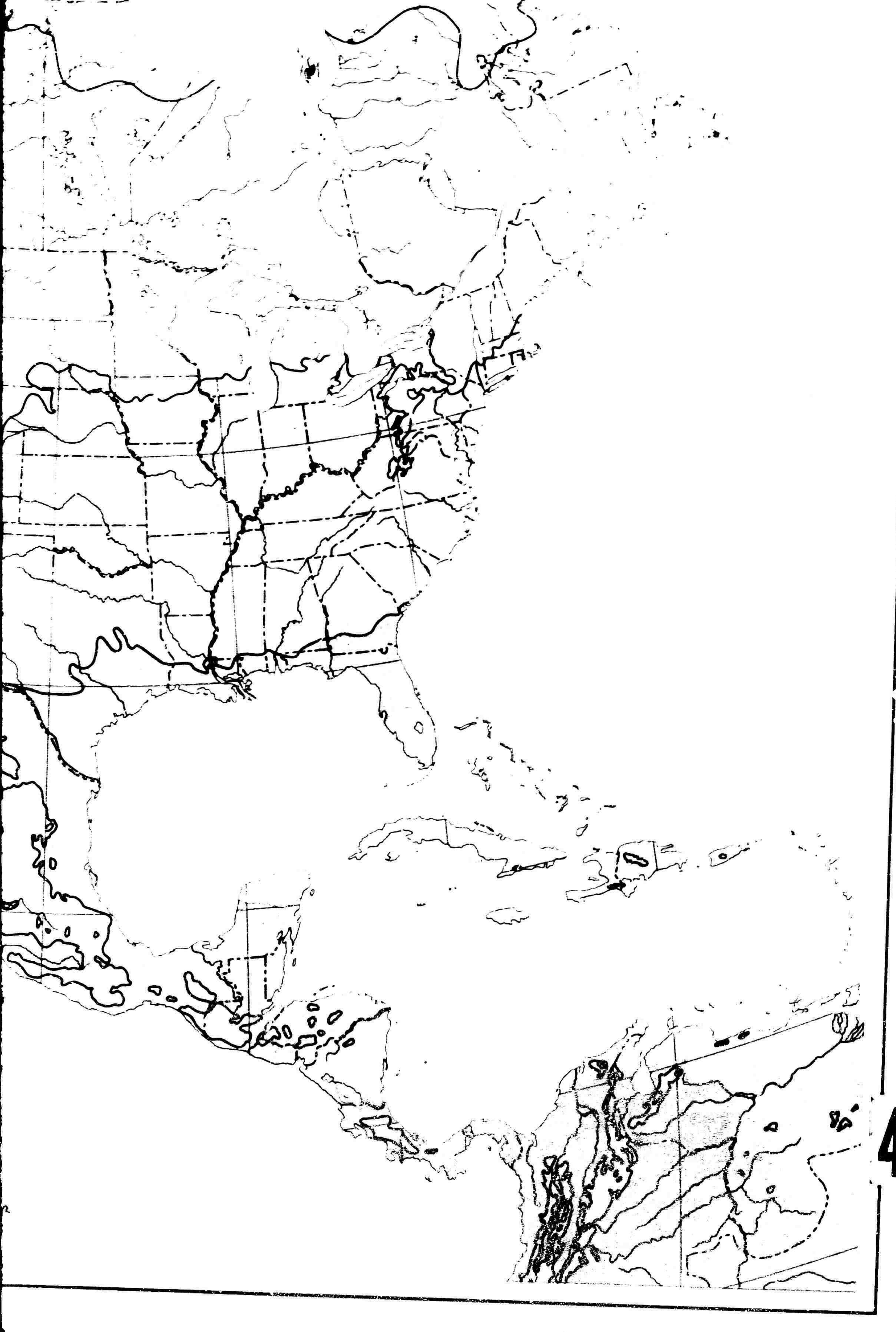
SCALE 1 18,000,000

0 50 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE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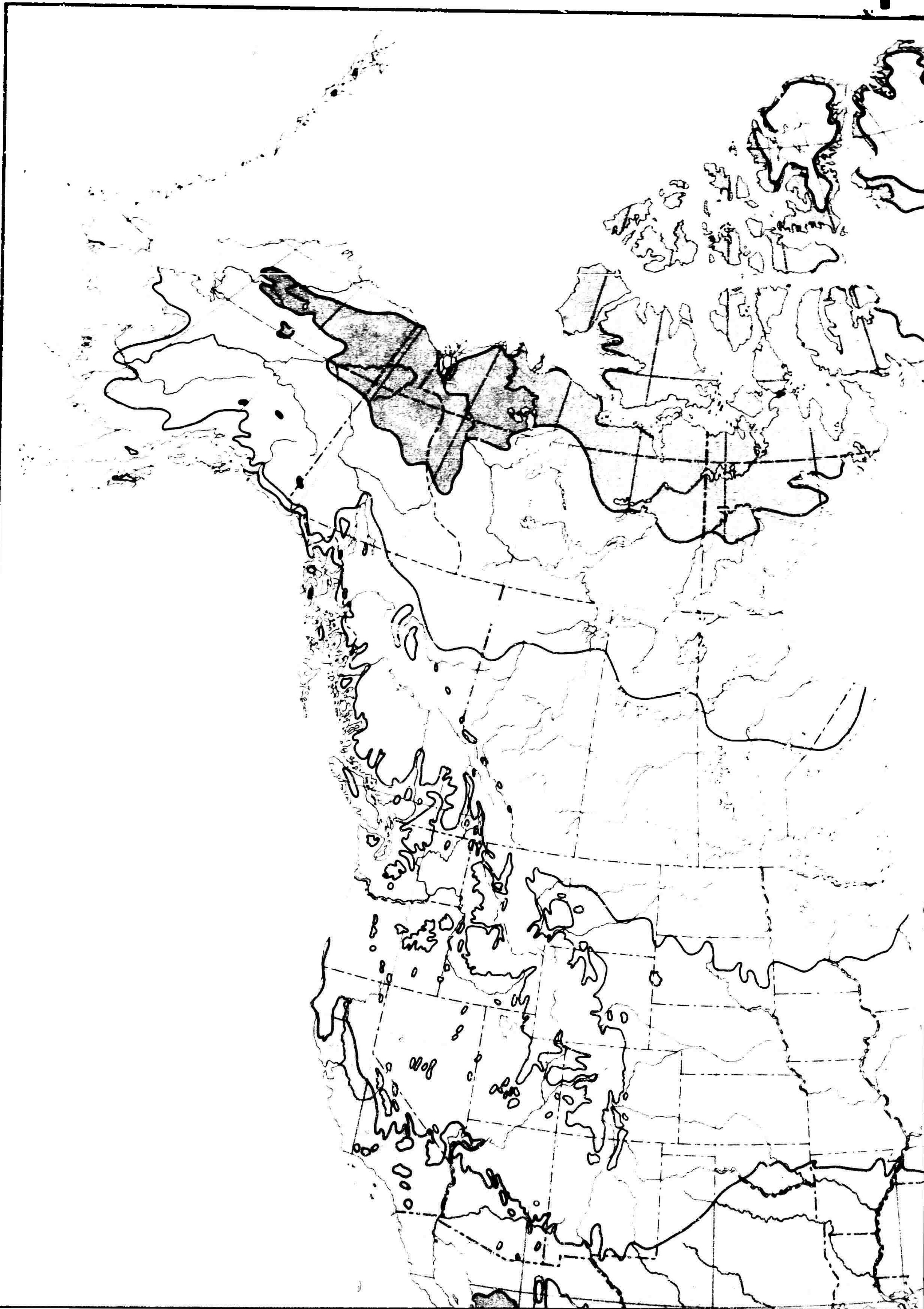

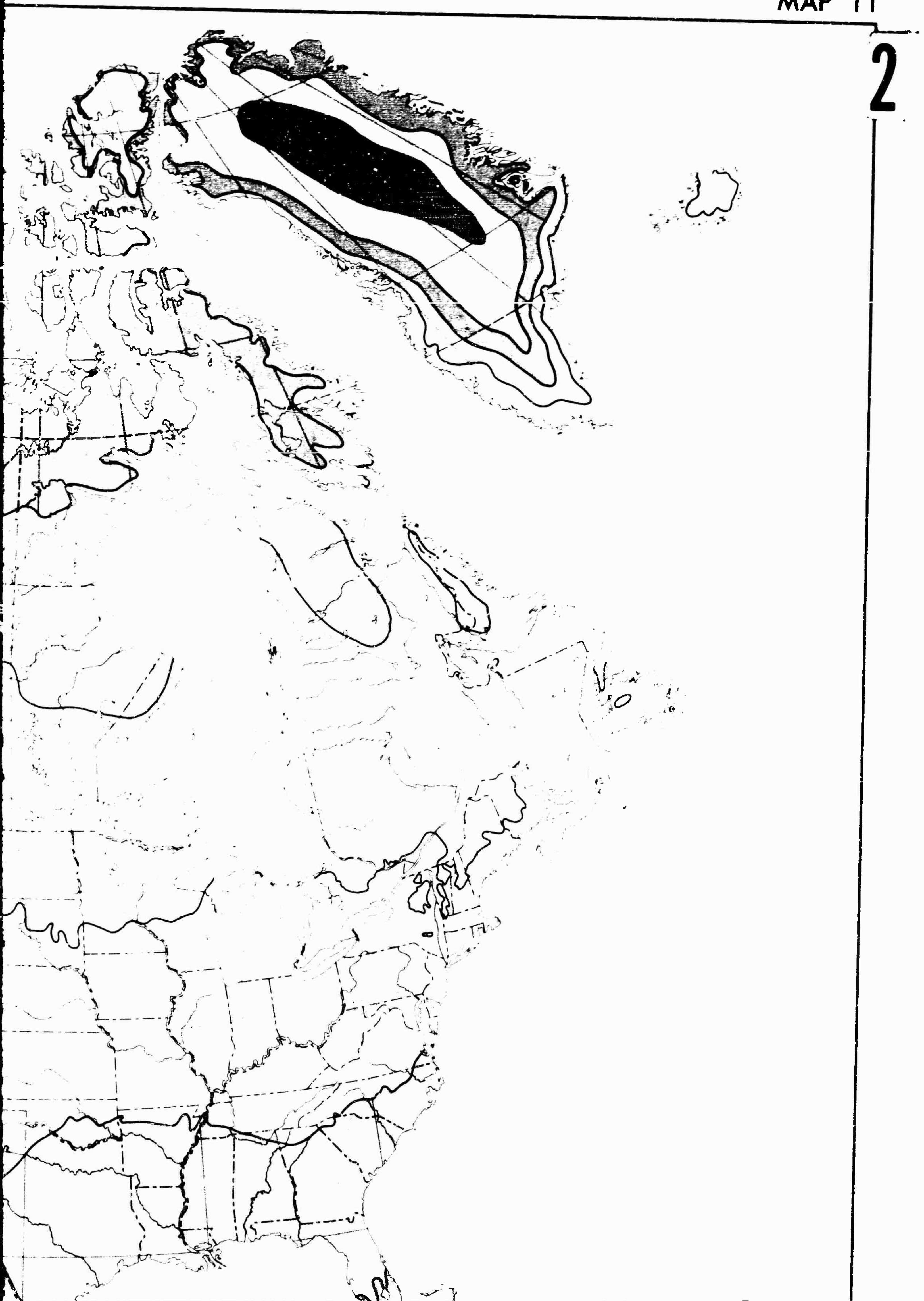
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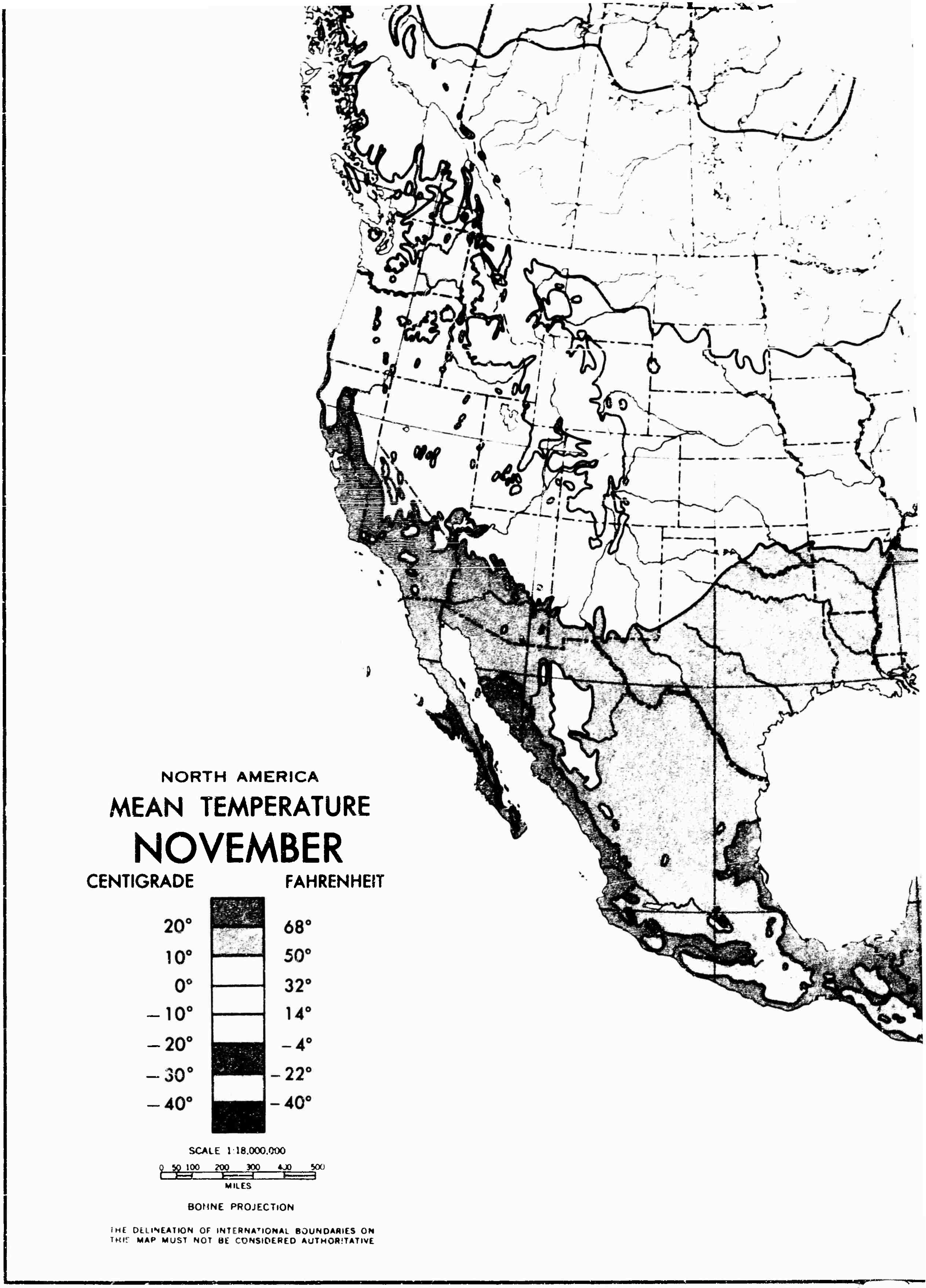
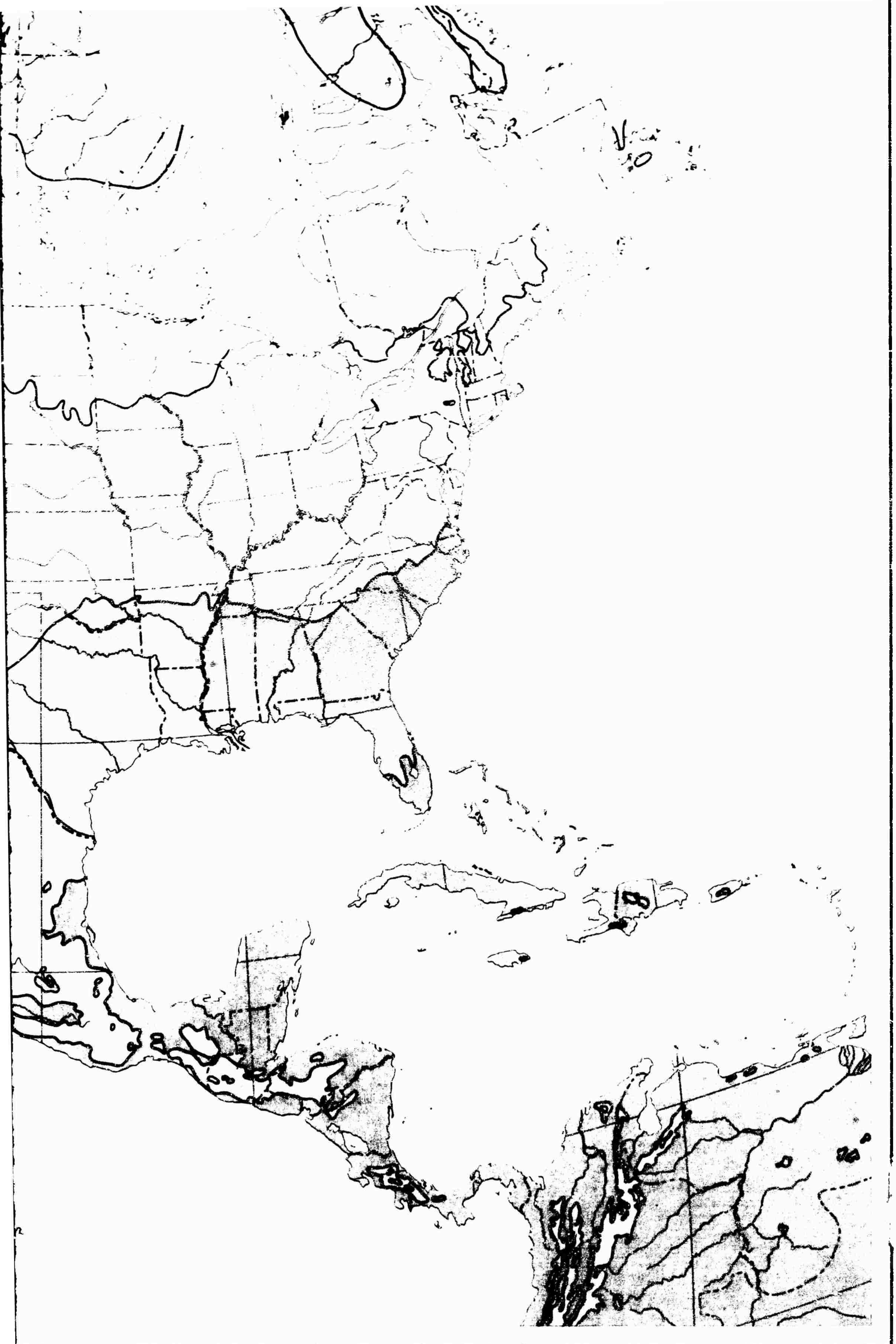

NORTH AMERICA
MEAN TEMPERATURE
NOVEMBER
CENTIGRADE
FAHRENHEIT
20° 68°
10° 50°
0° 32°
– 10° 14°
– 20° – 4°
– 30° – 22°
– 40° – 40°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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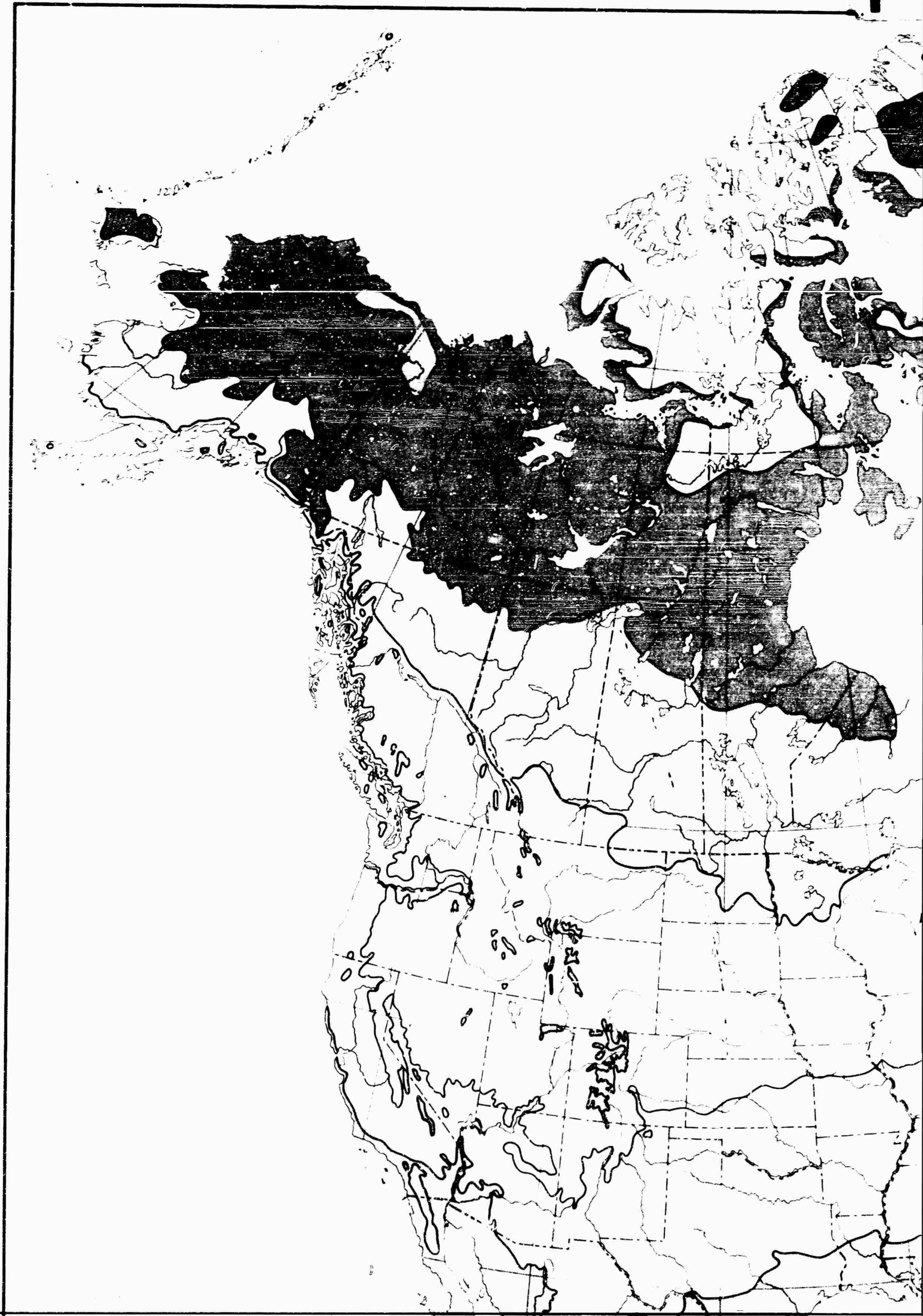

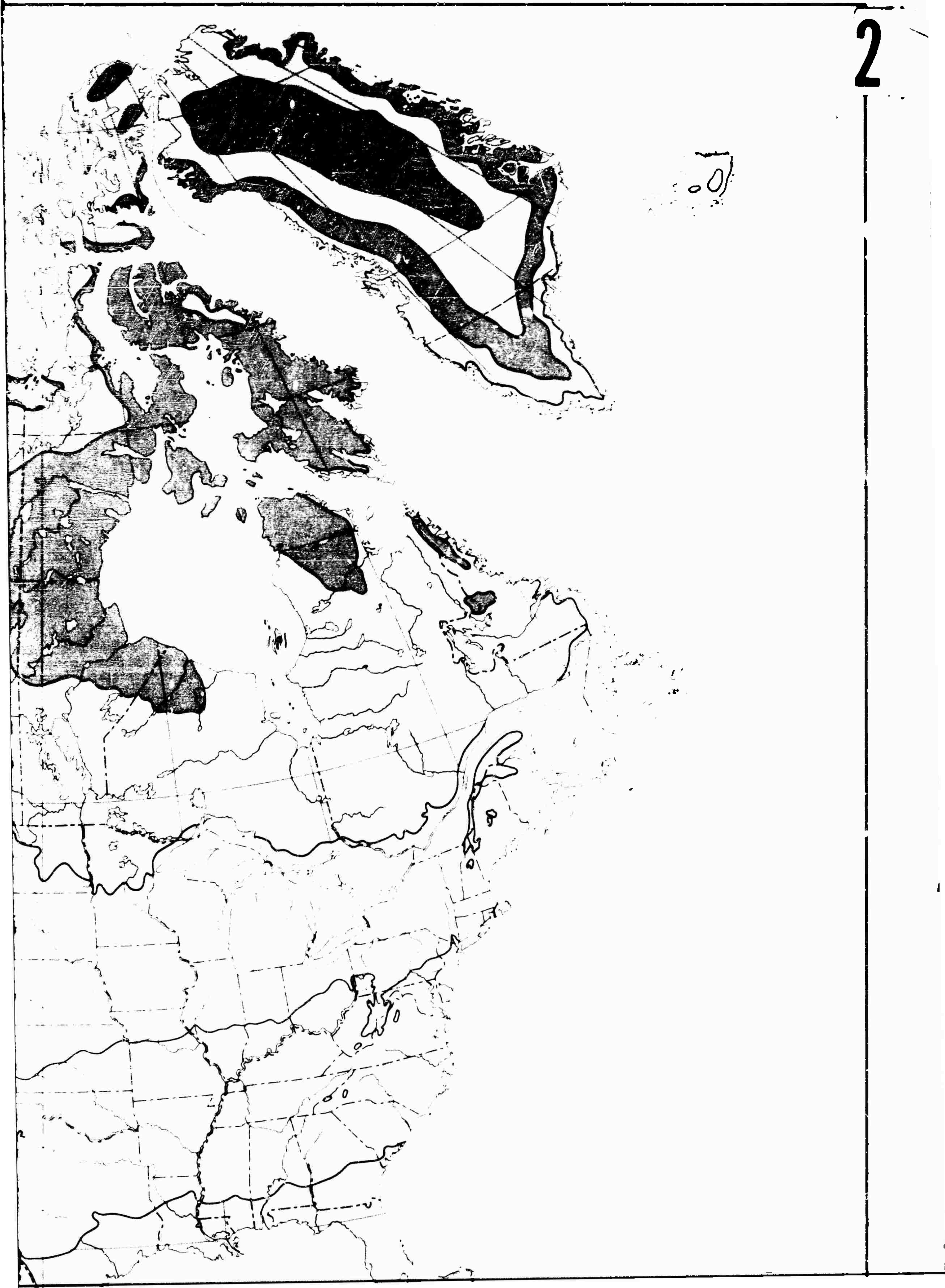
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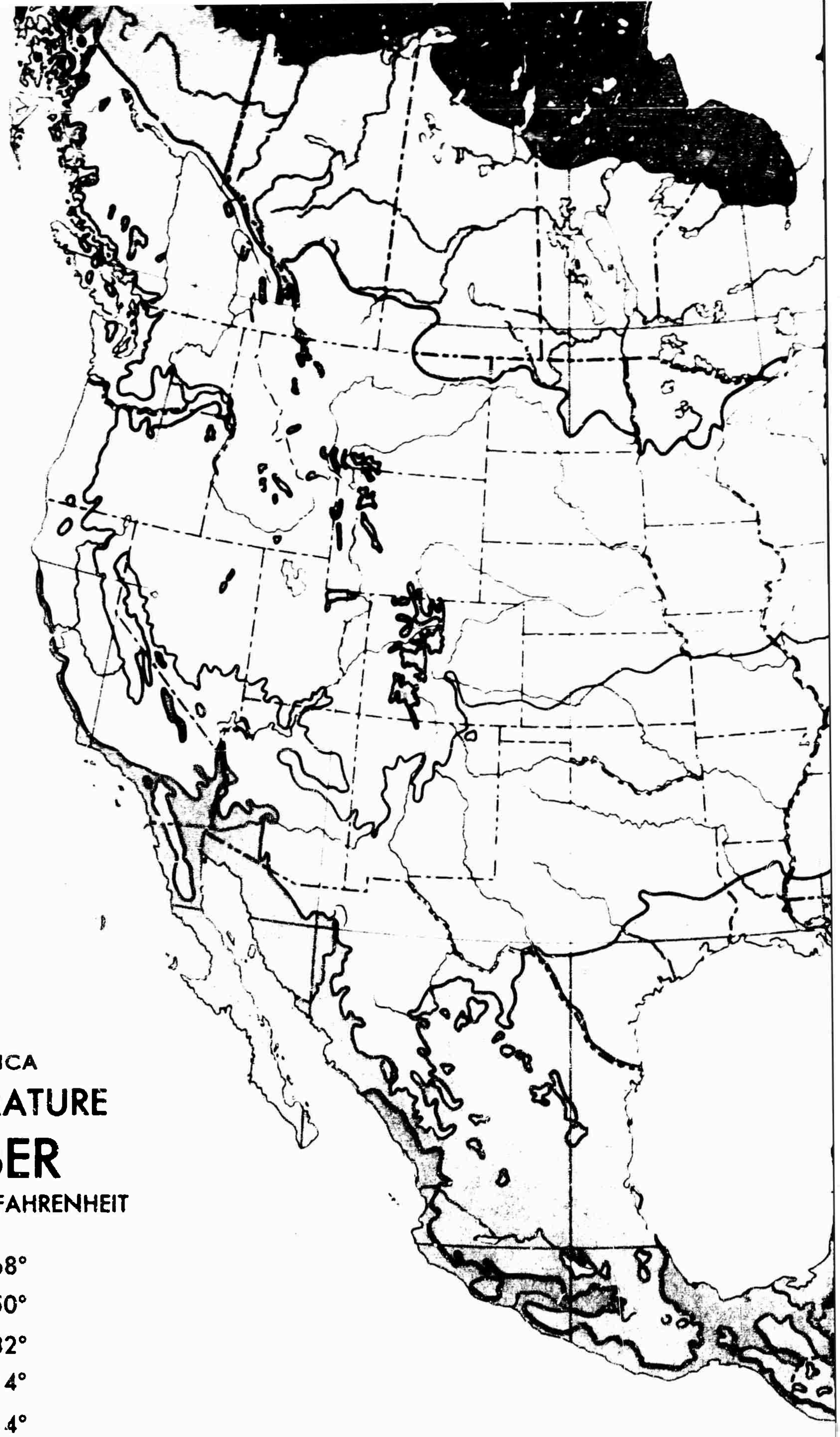
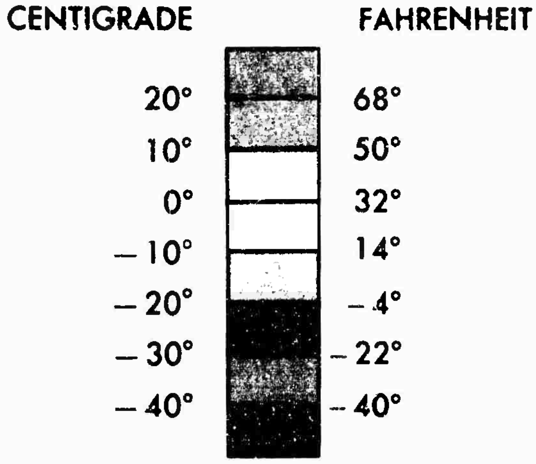


NORTH AMERICA

MEAN TEMPERATURE

DECEMBER

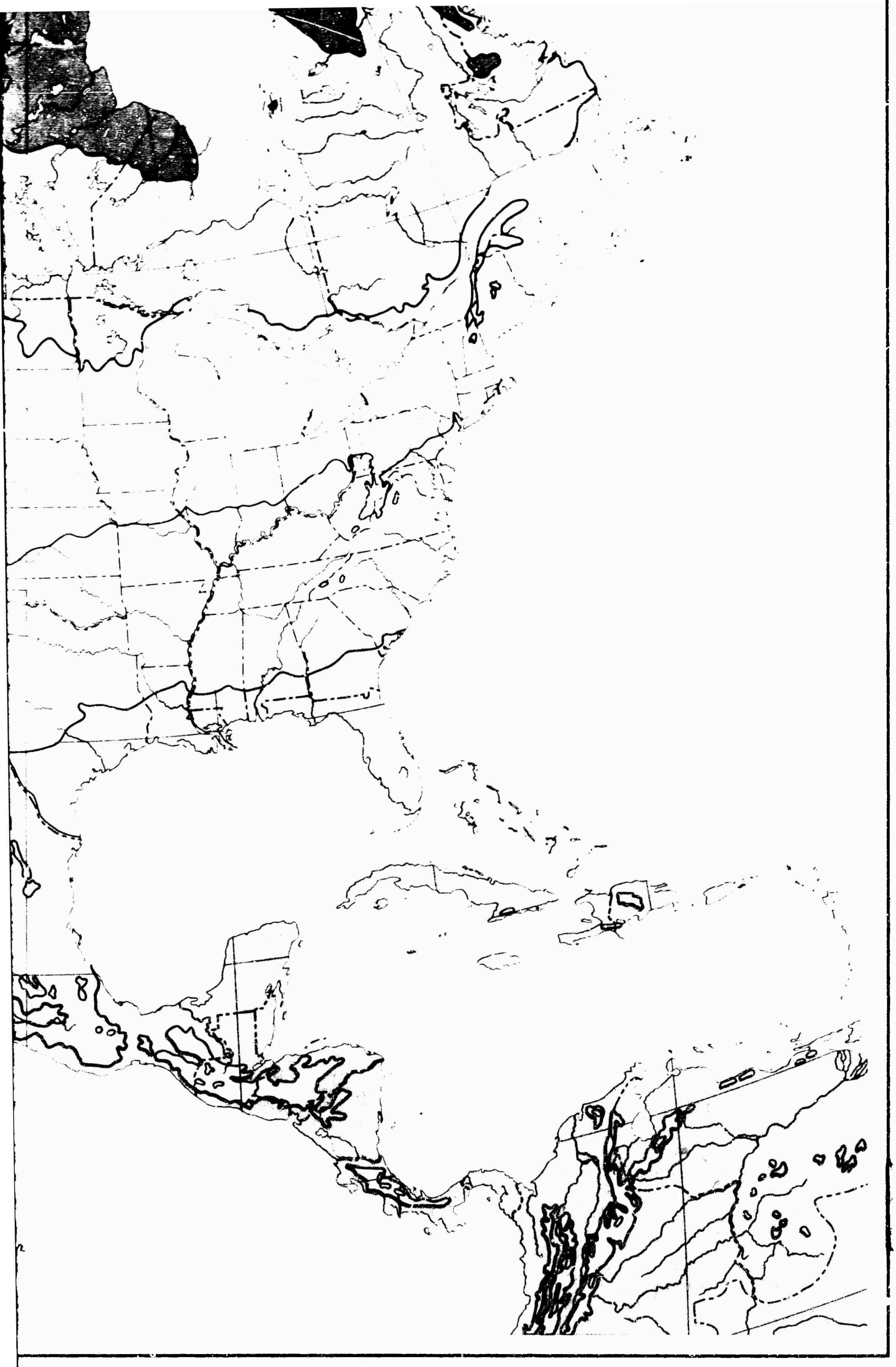


SCALE 1:18,000,000

0 50 100 200 300 400 500
MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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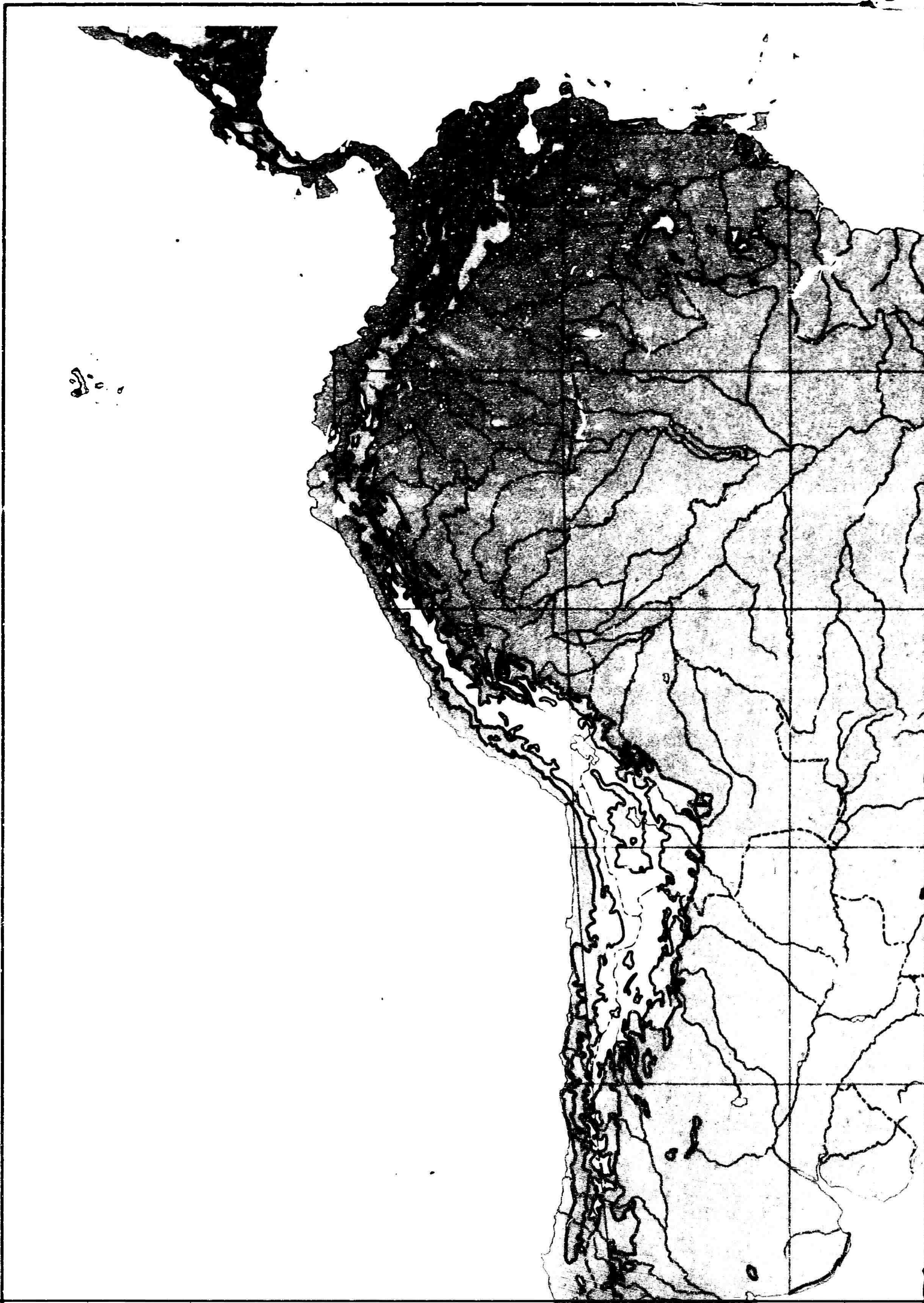
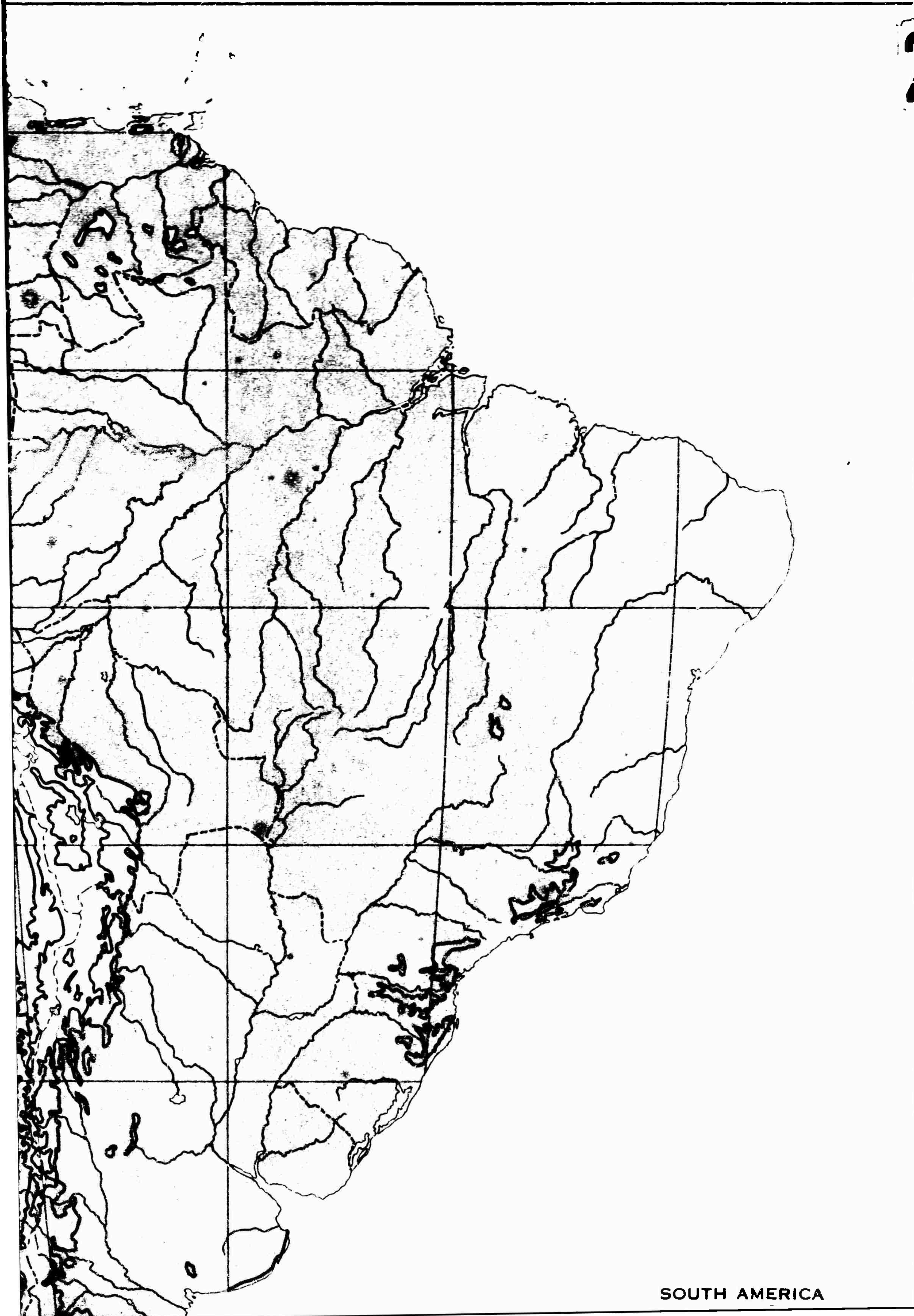
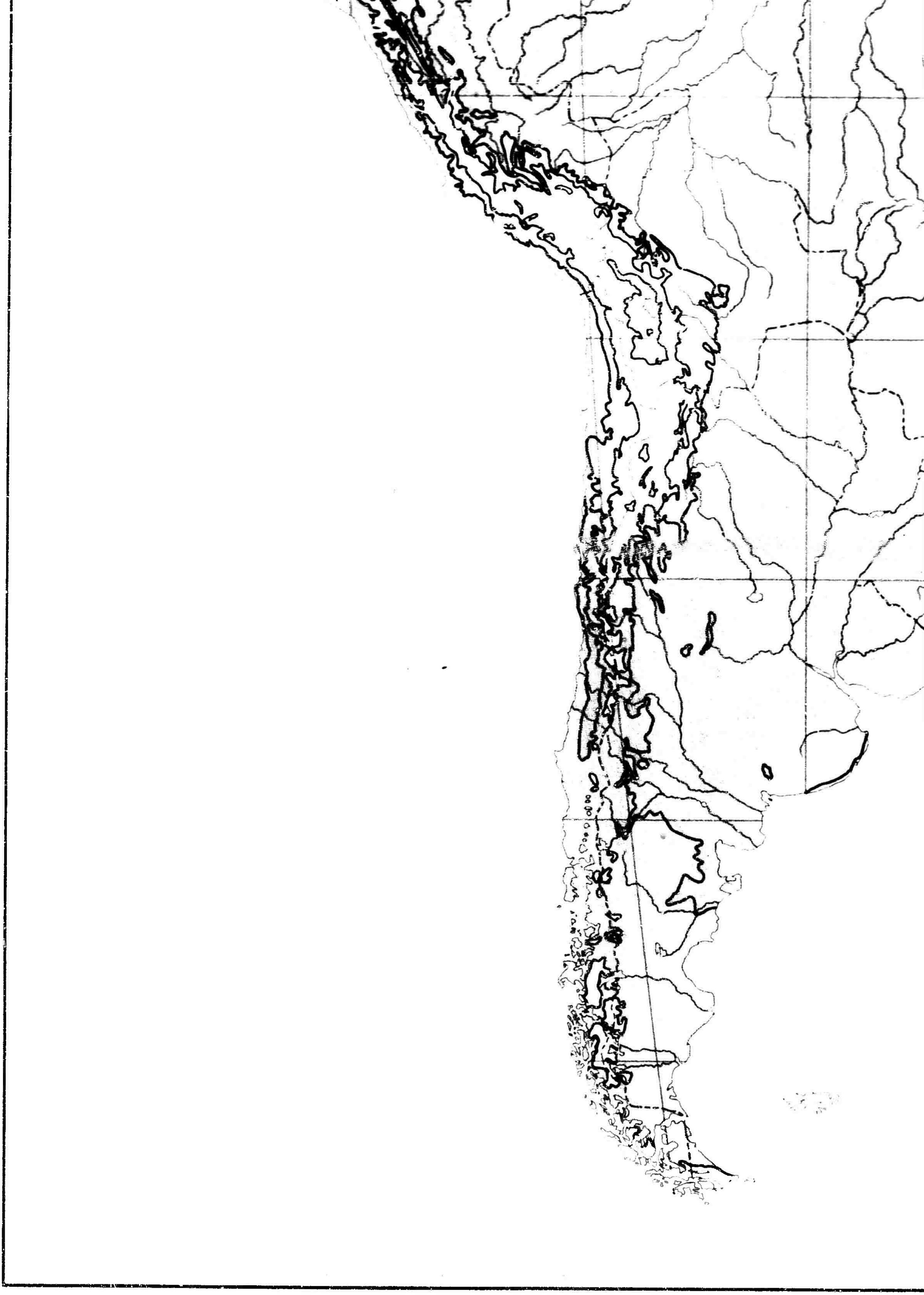
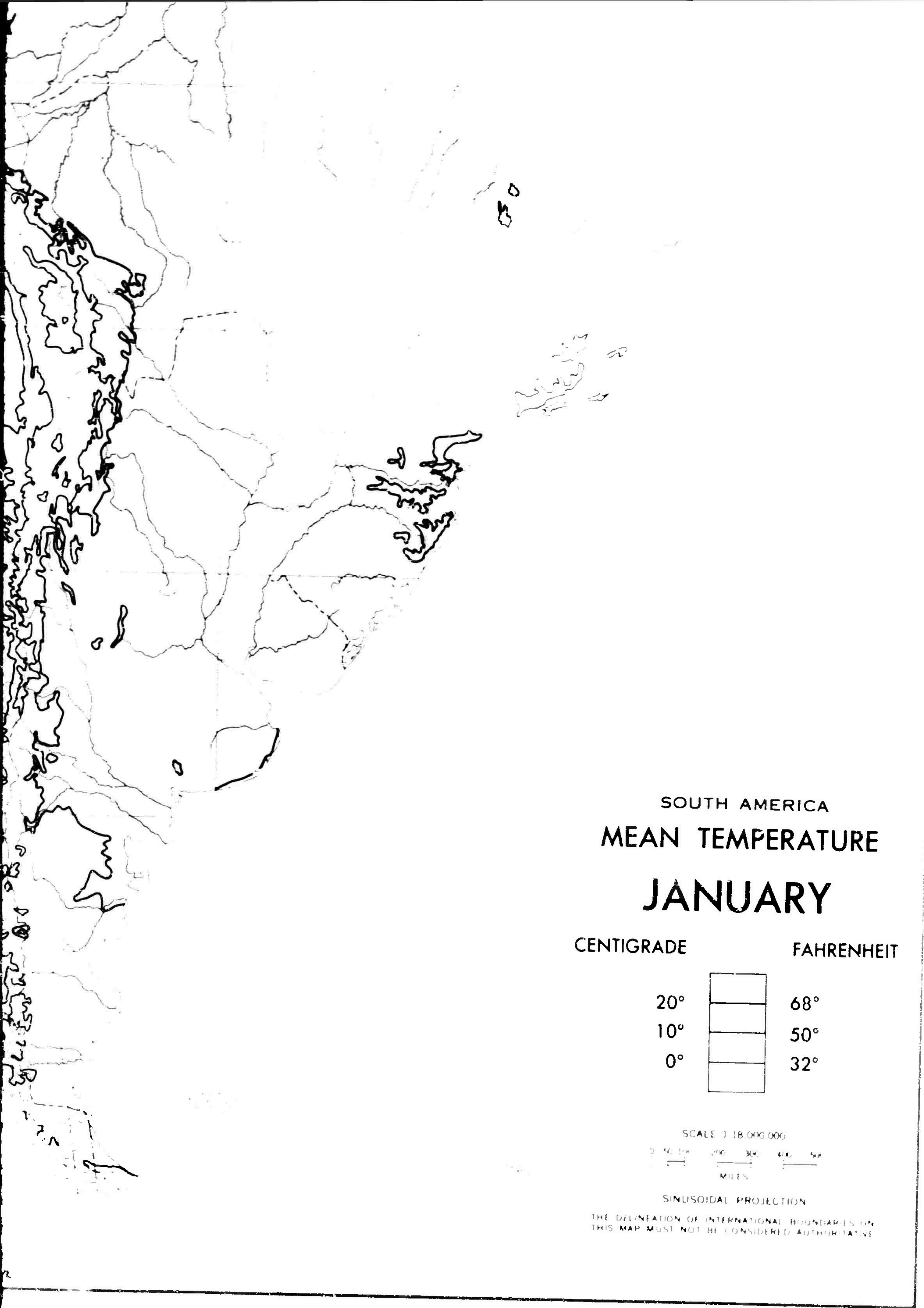
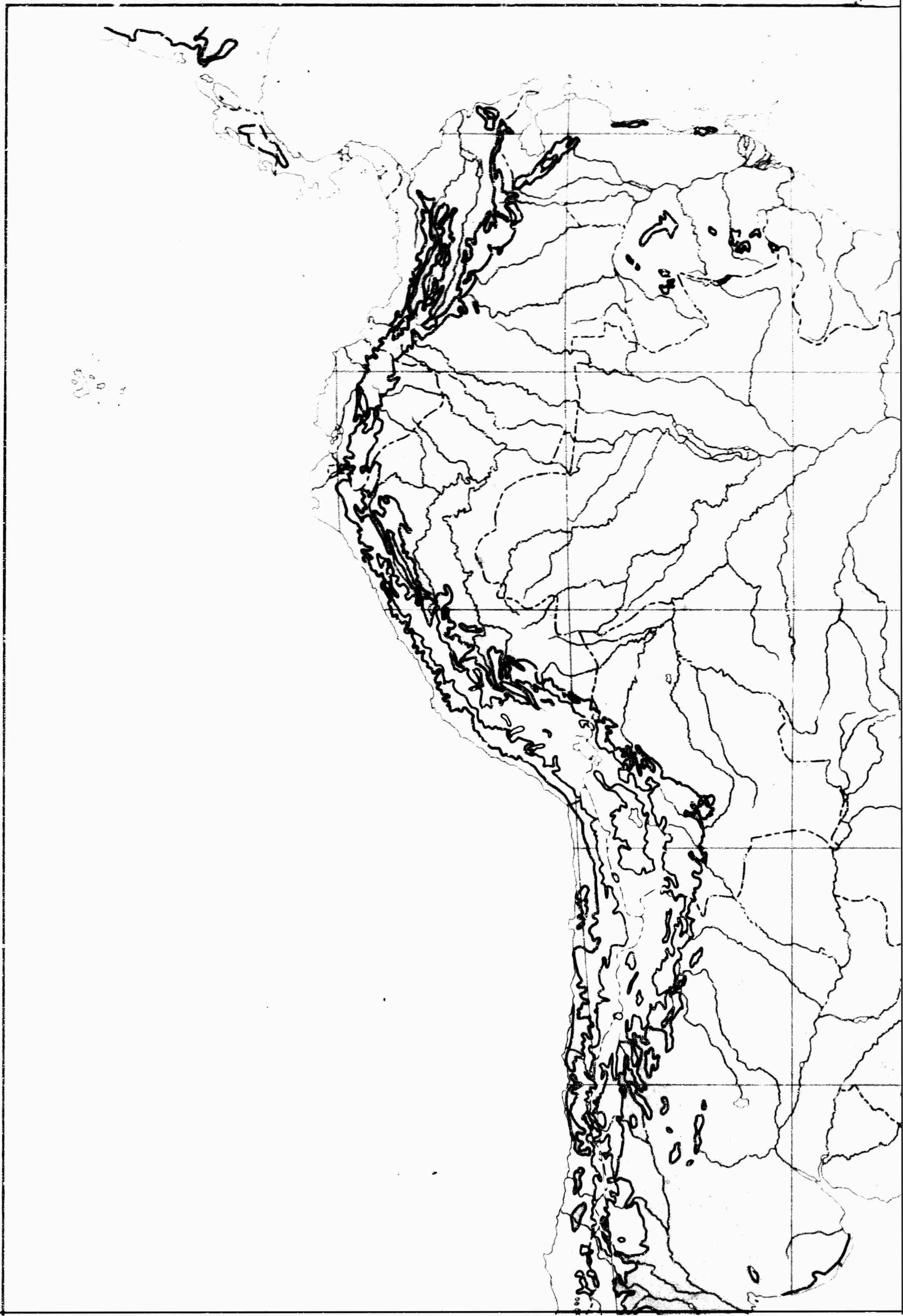








SOUTH AMERICA
MEAN TEMPERATURE
JANUARY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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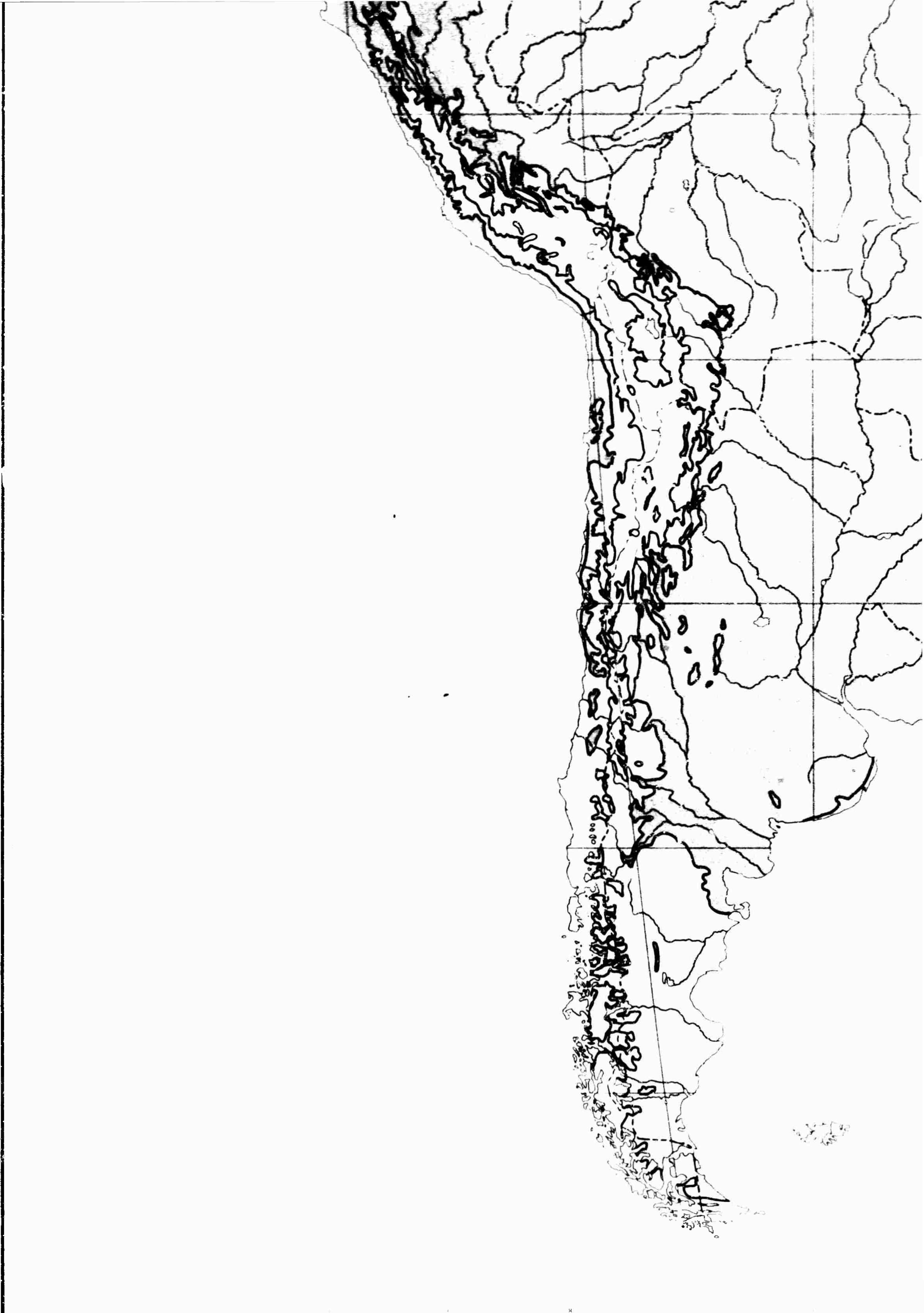
SOUTH AMERICA



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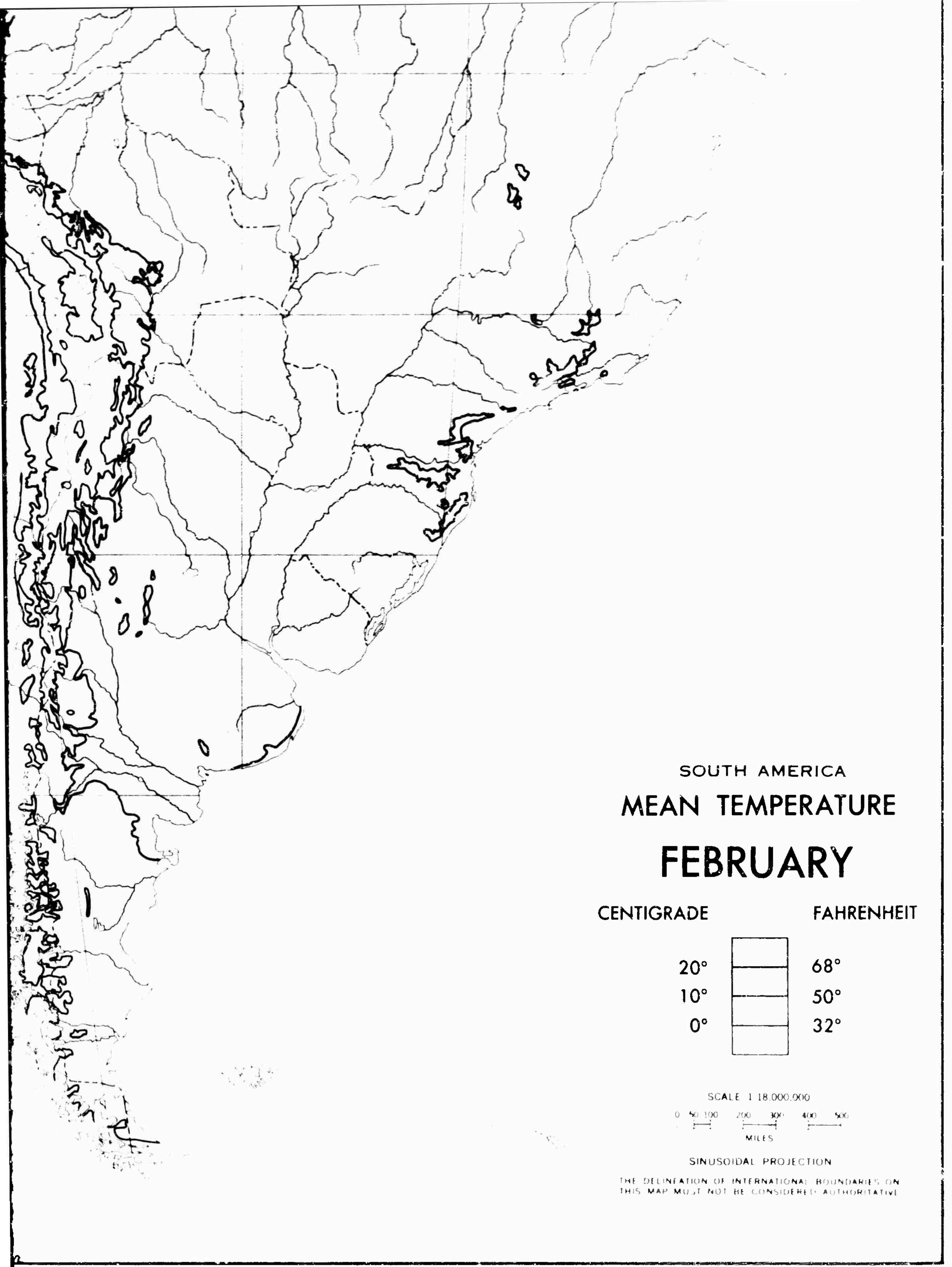
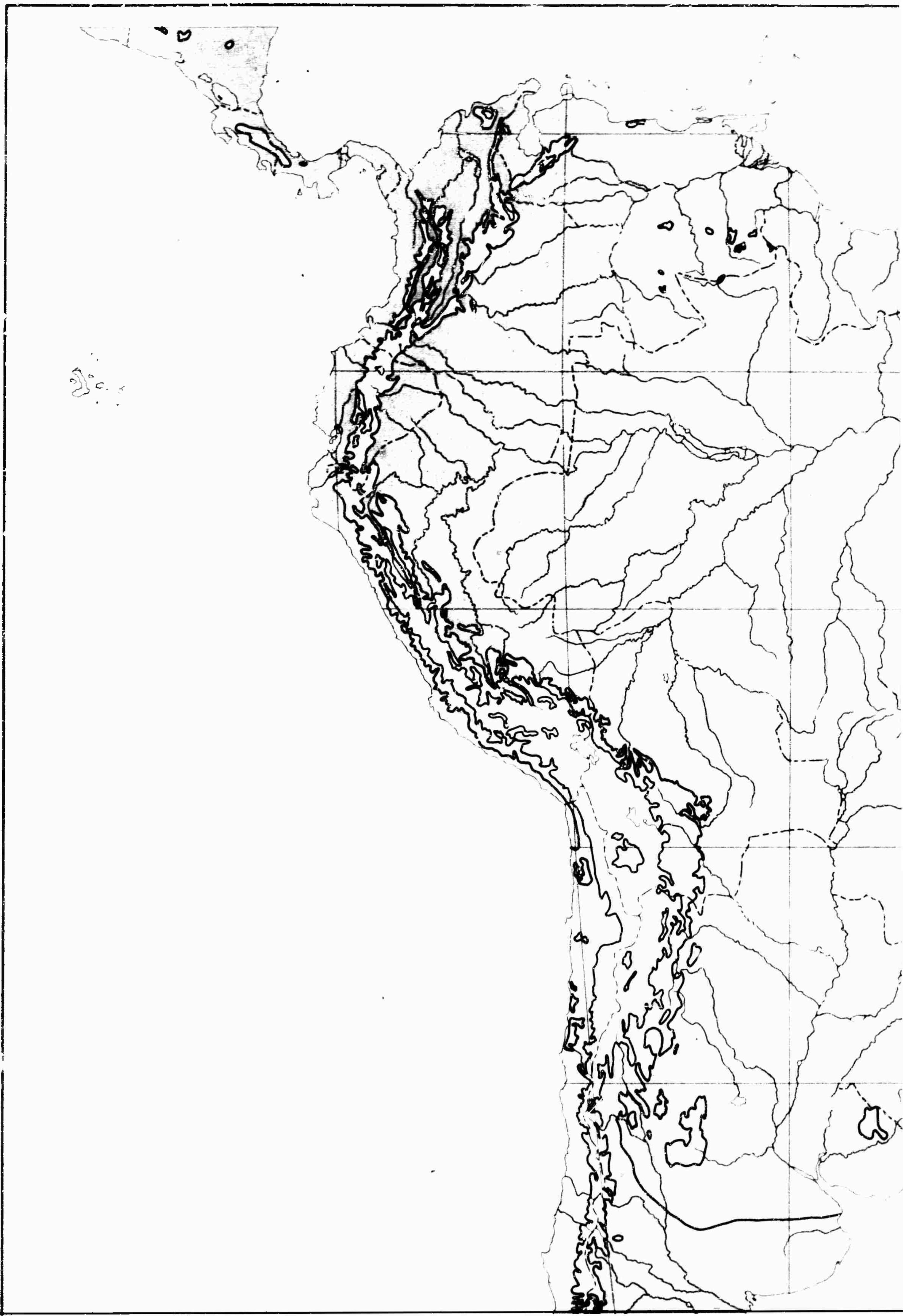
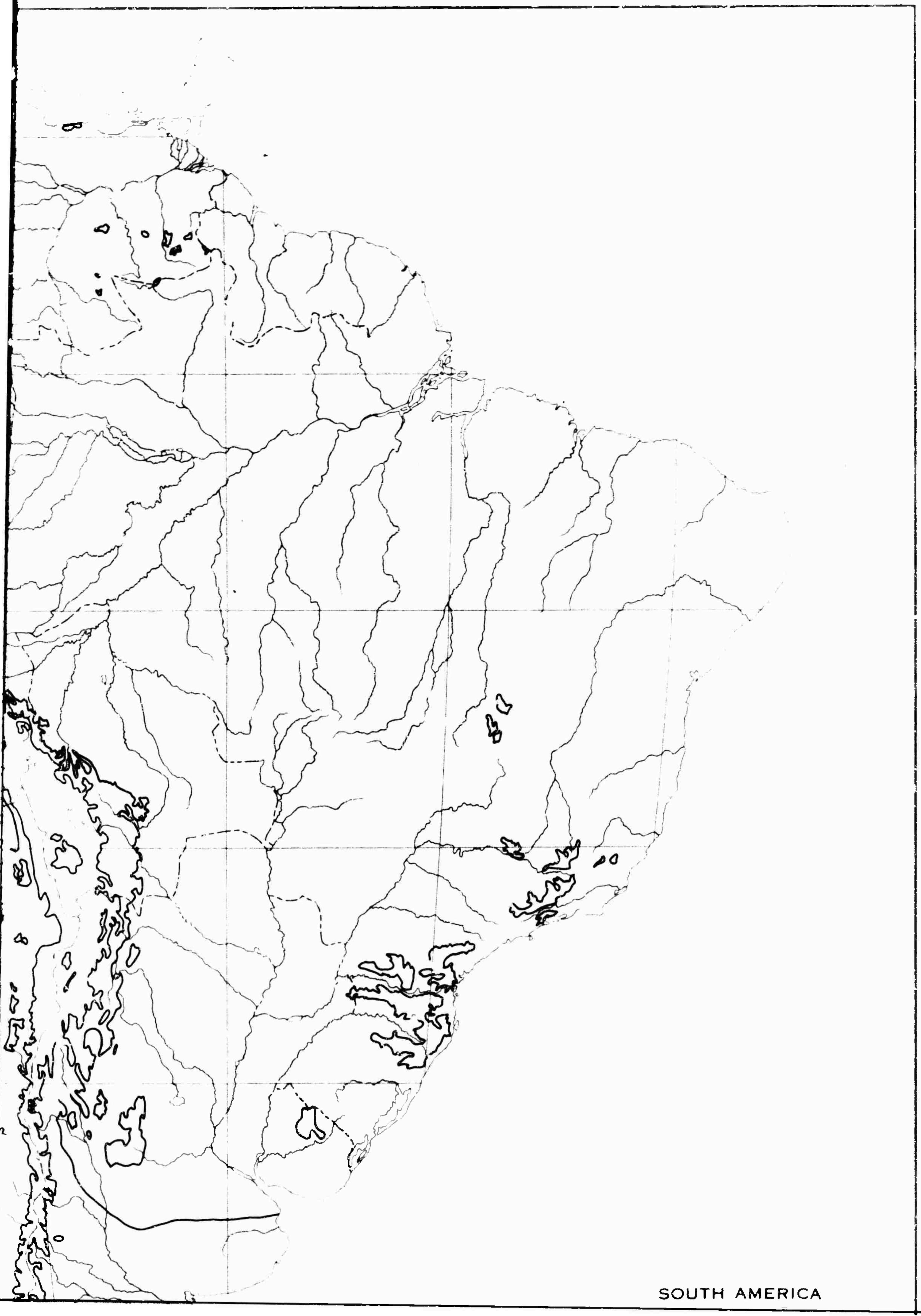
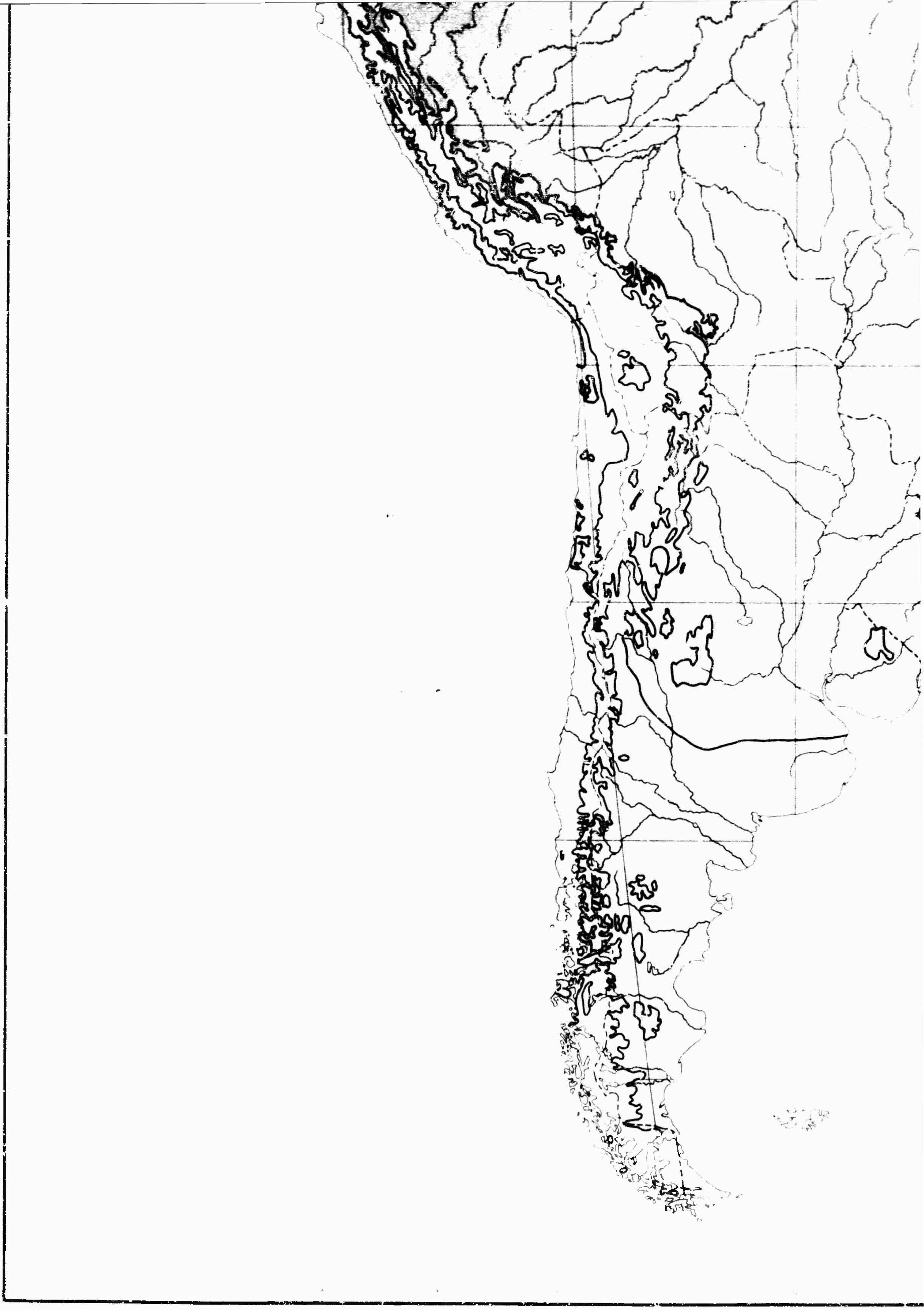
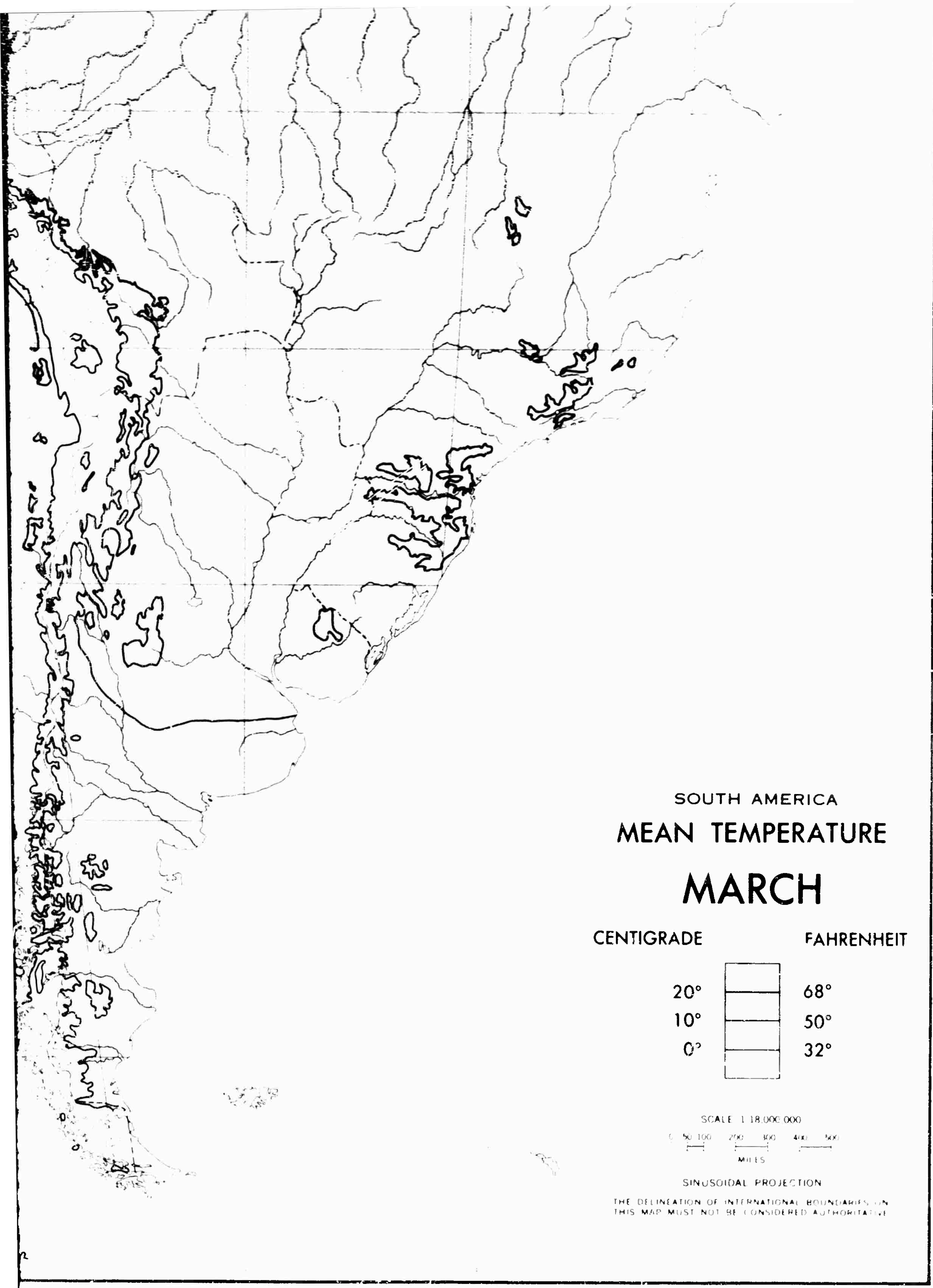

SOUTH AMERICA
MEAN TEMPERATURE
FEBRUARY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

1

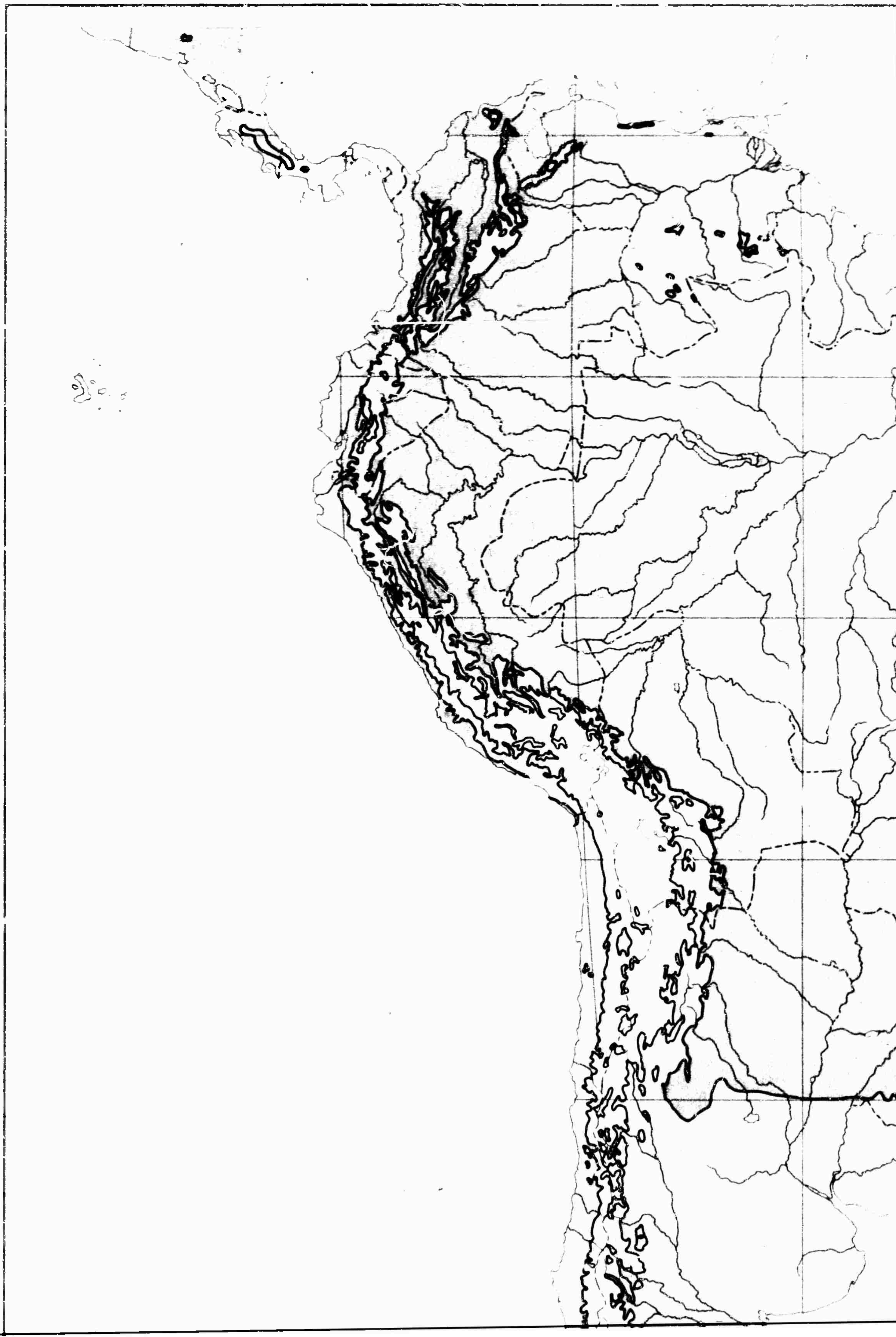



SOUTH AMERICA



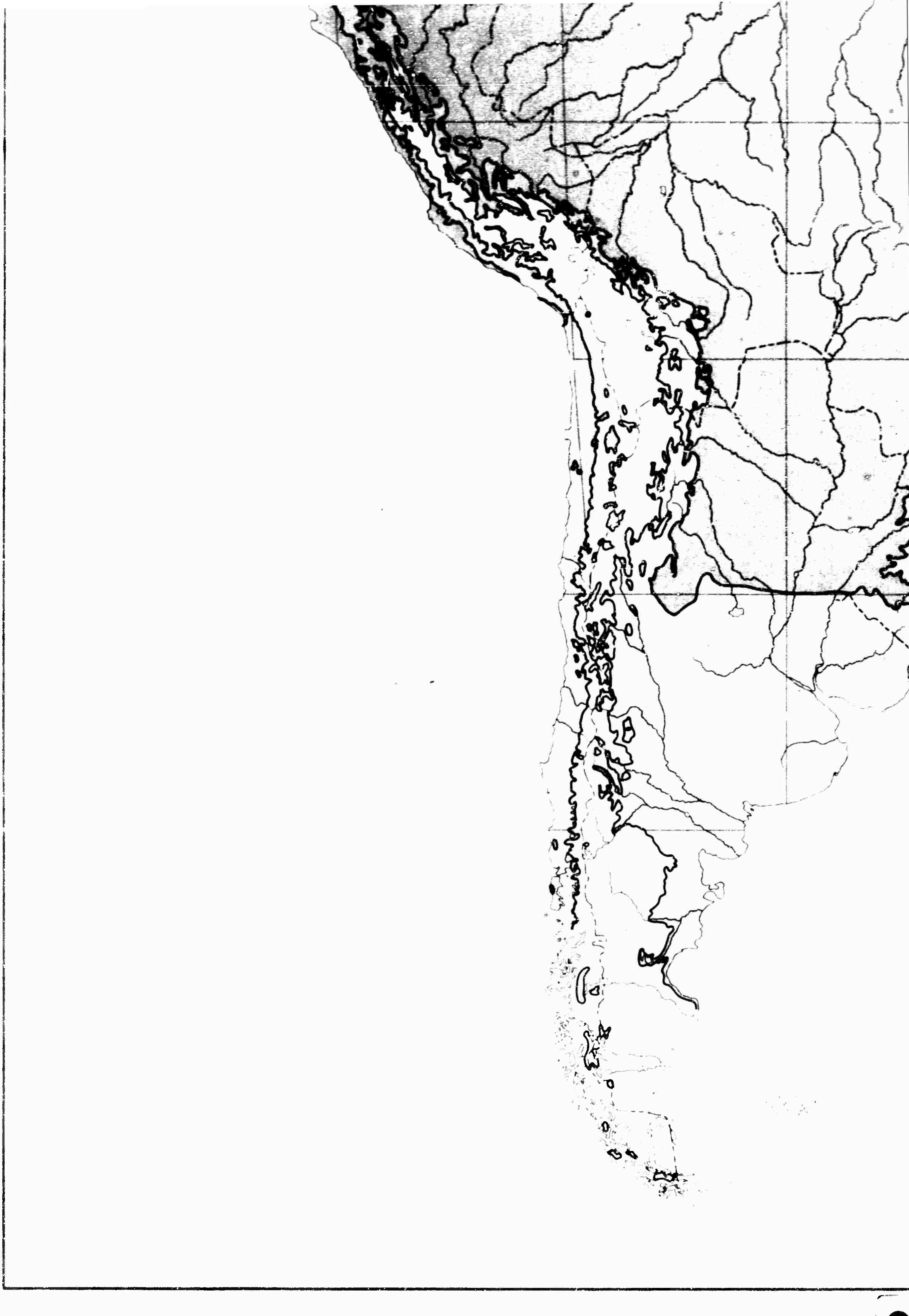

SOUTH AMERICA
MEAN TEMPERATURE
MARCH
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

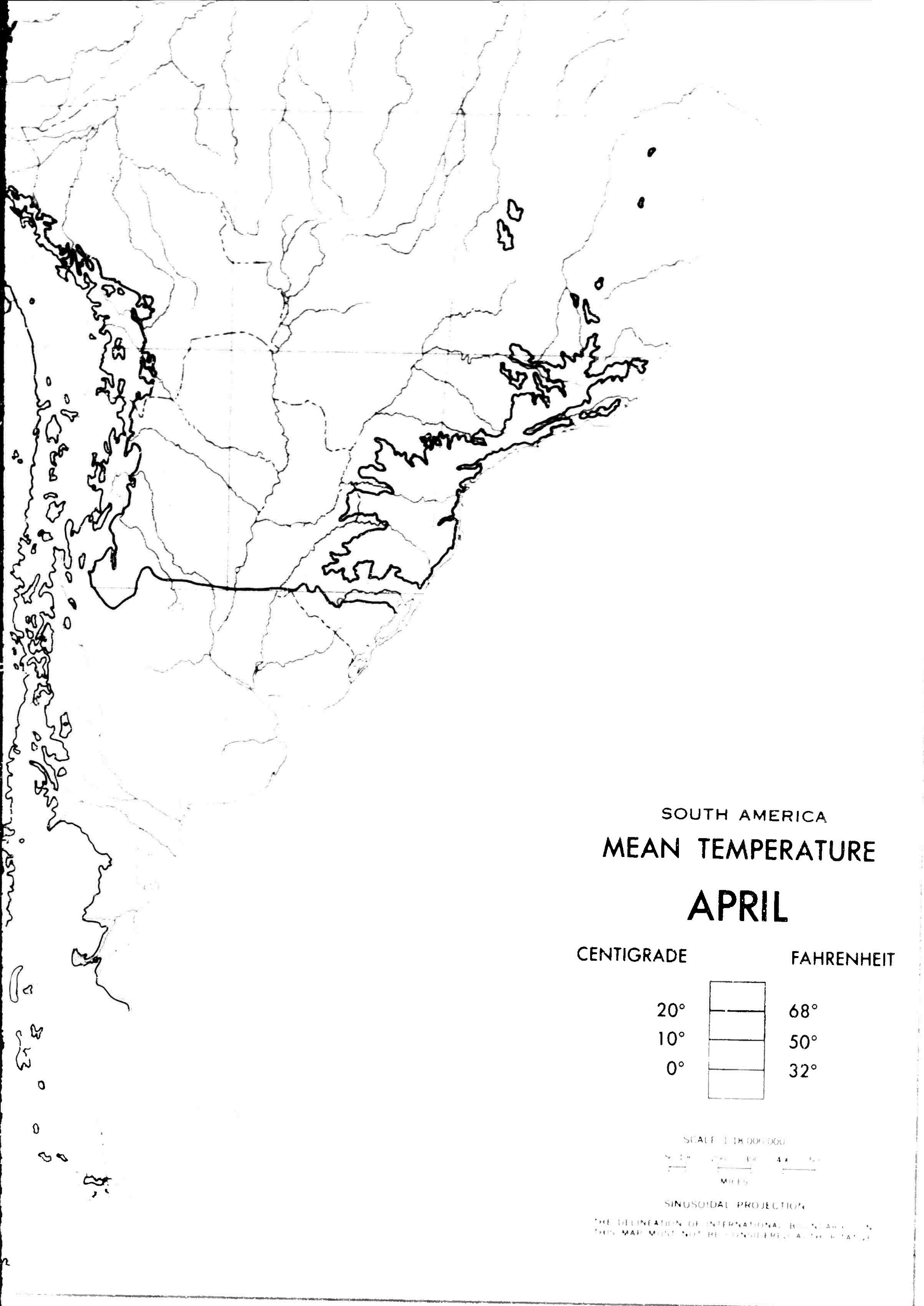
1

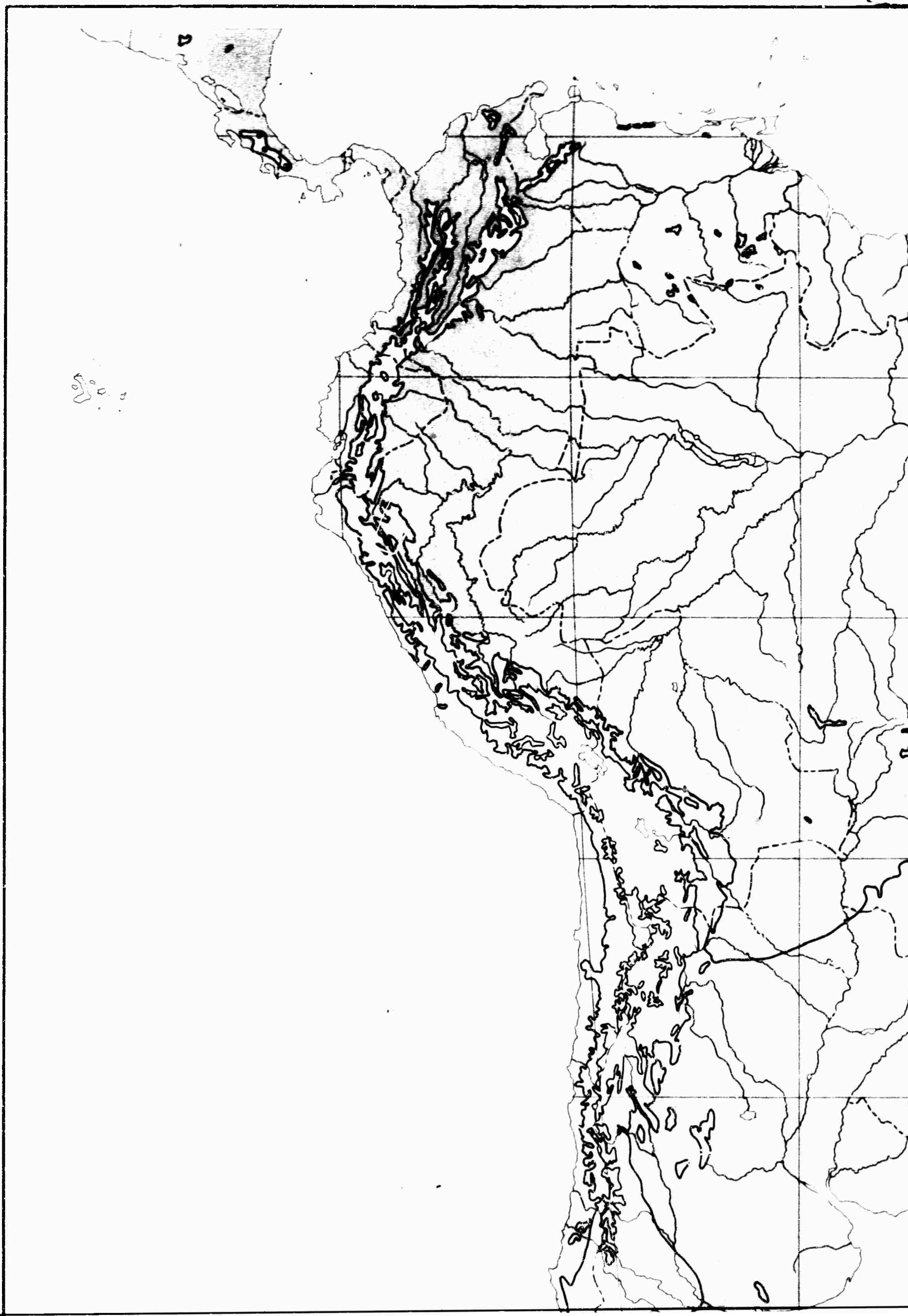


MAP 16

2

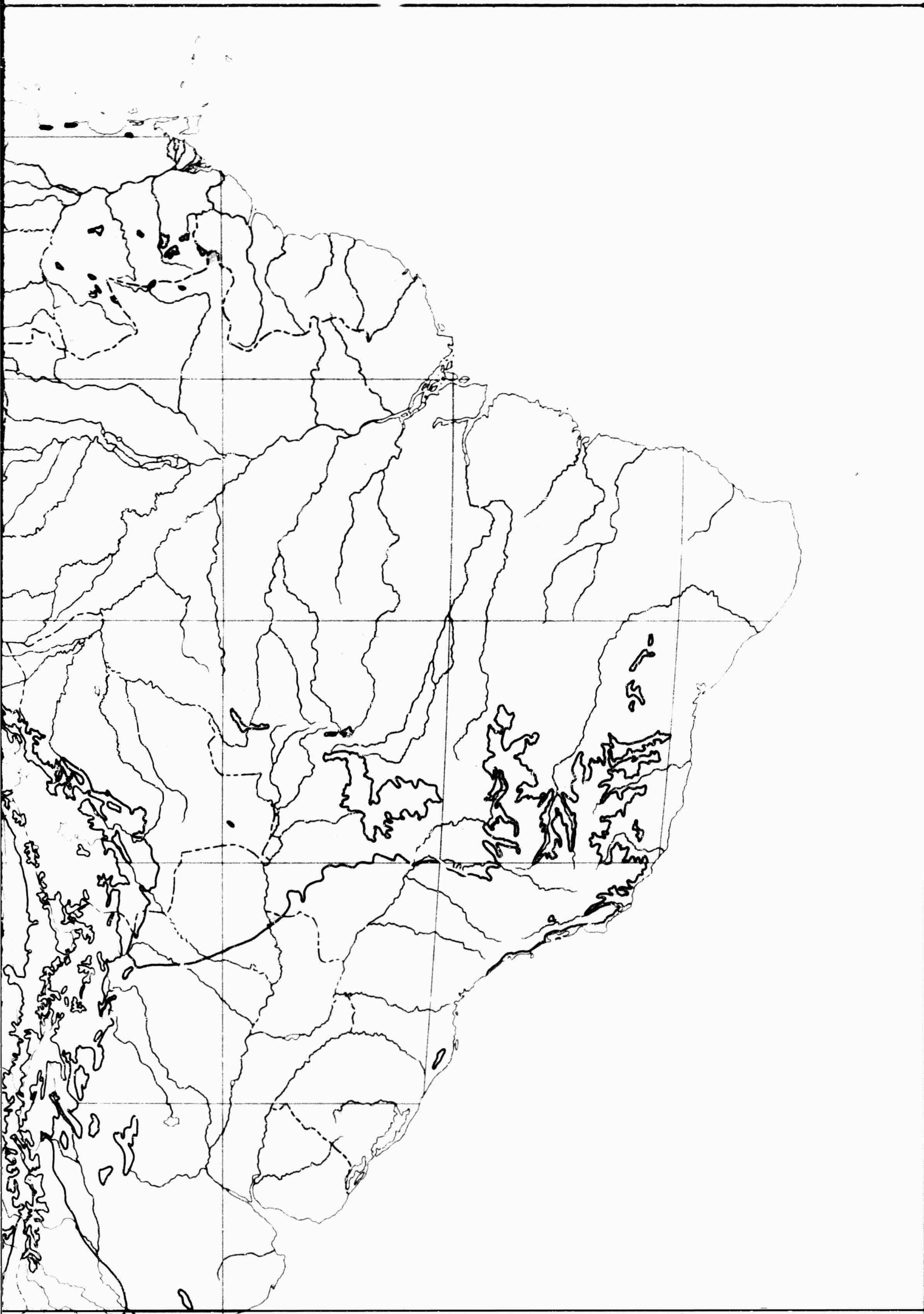


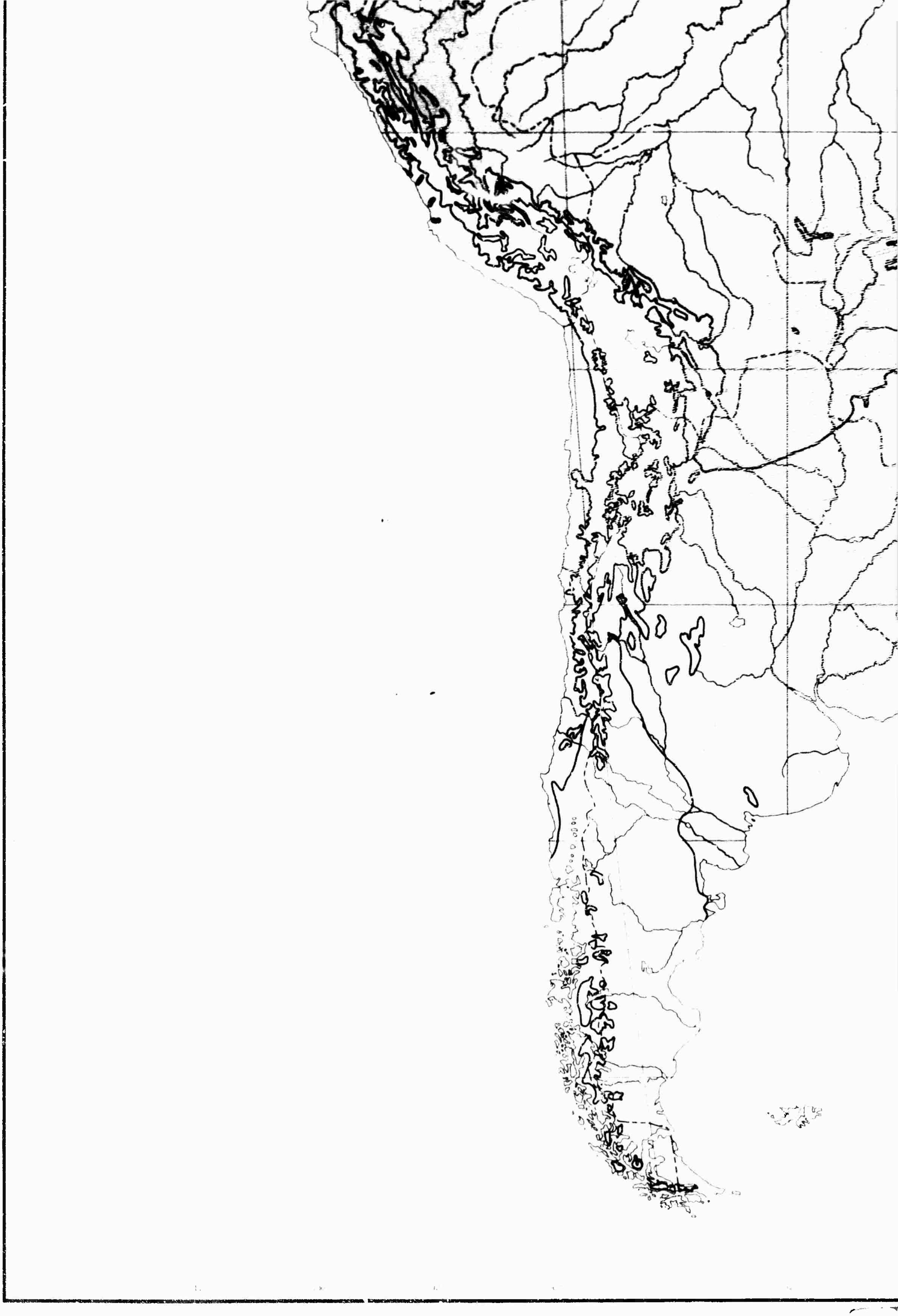

SOUTH AMERICA
MEAN TEMPERATURE
APRIL
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
MILES
SINUSOIDAL PROJECTION

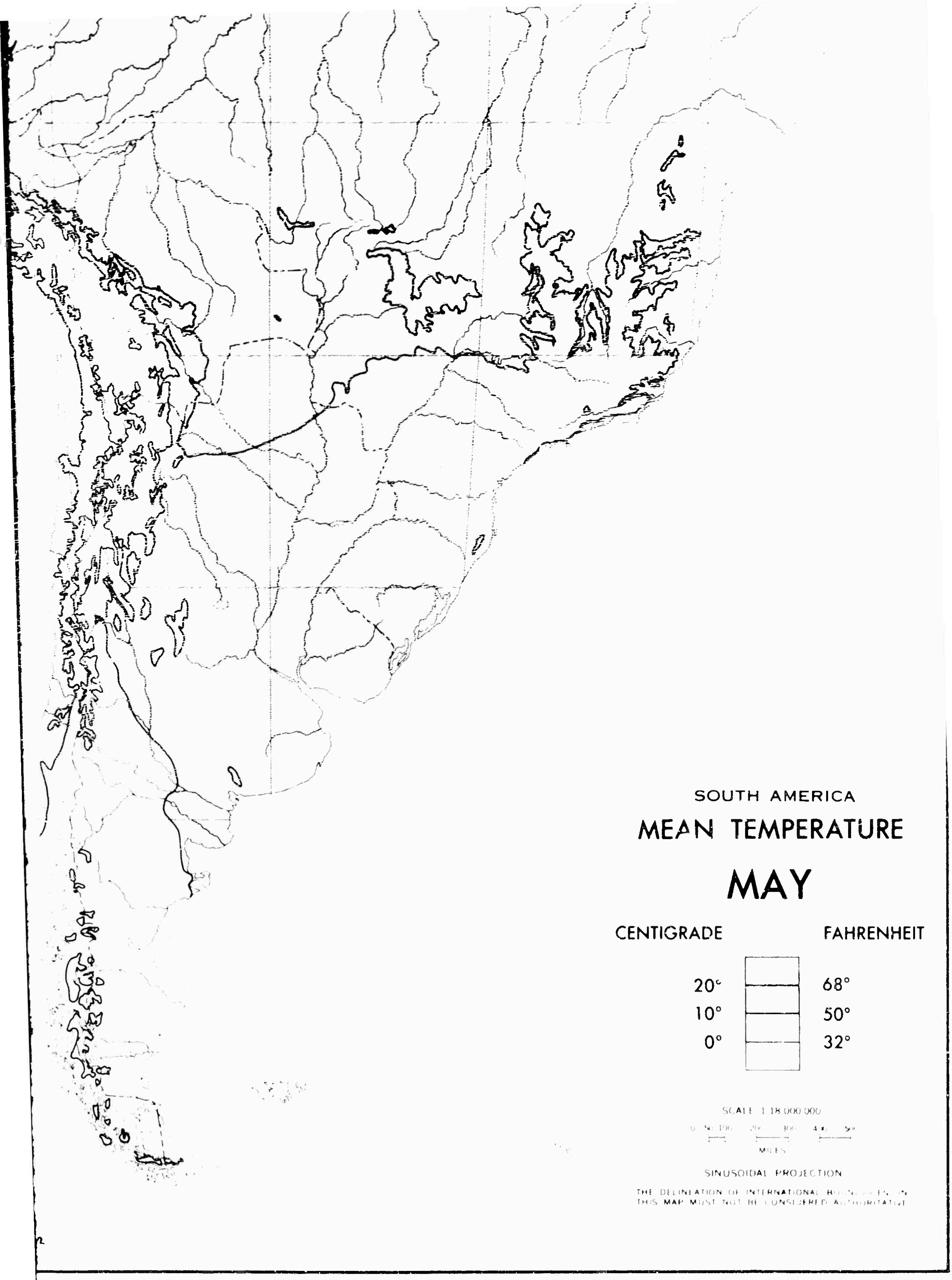


MAP 17

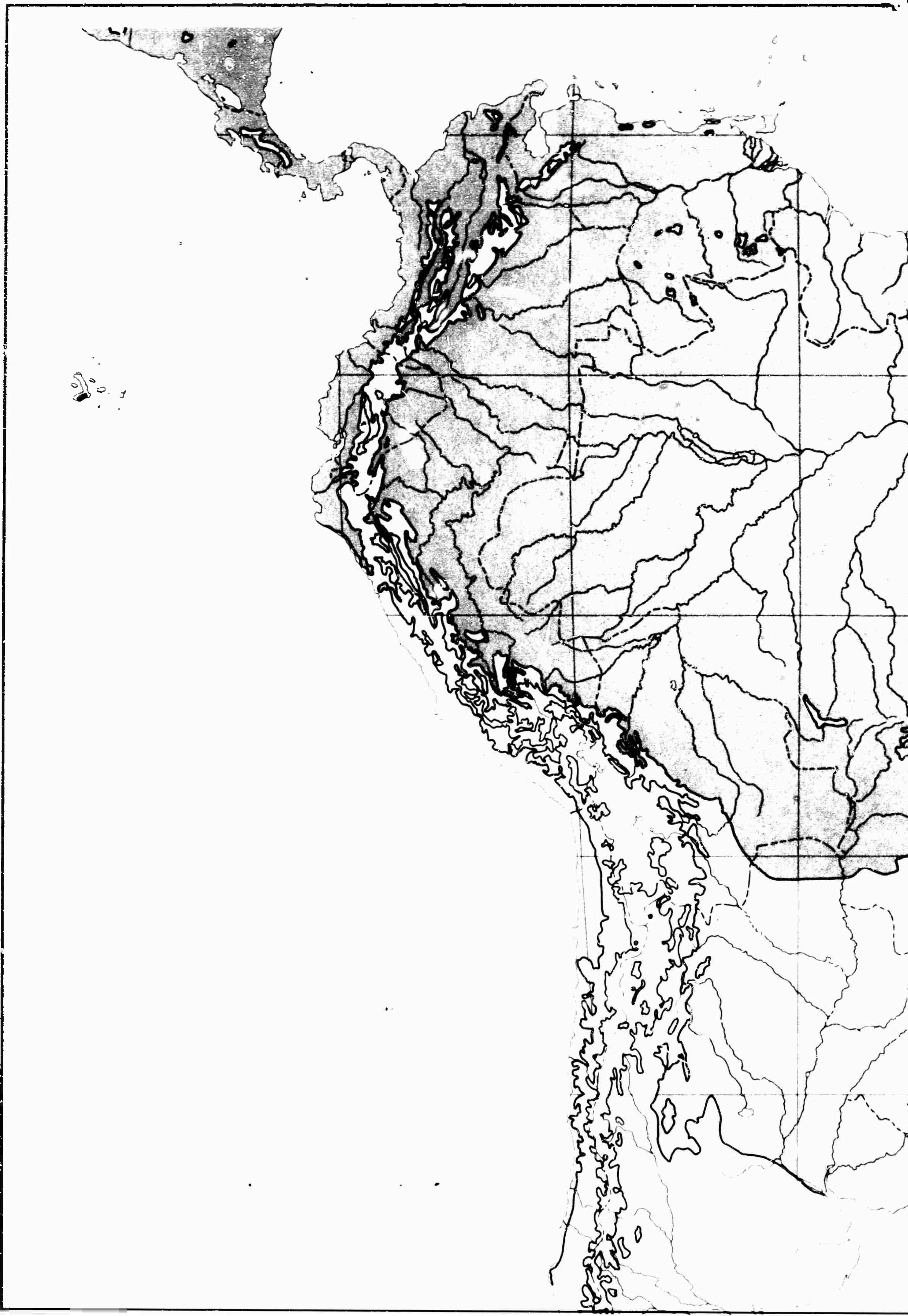
2






SOUTH AMERICA
MEAN TEMPERATURE
MAY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
MILES
SINUSOIDAL PROJECTION

1



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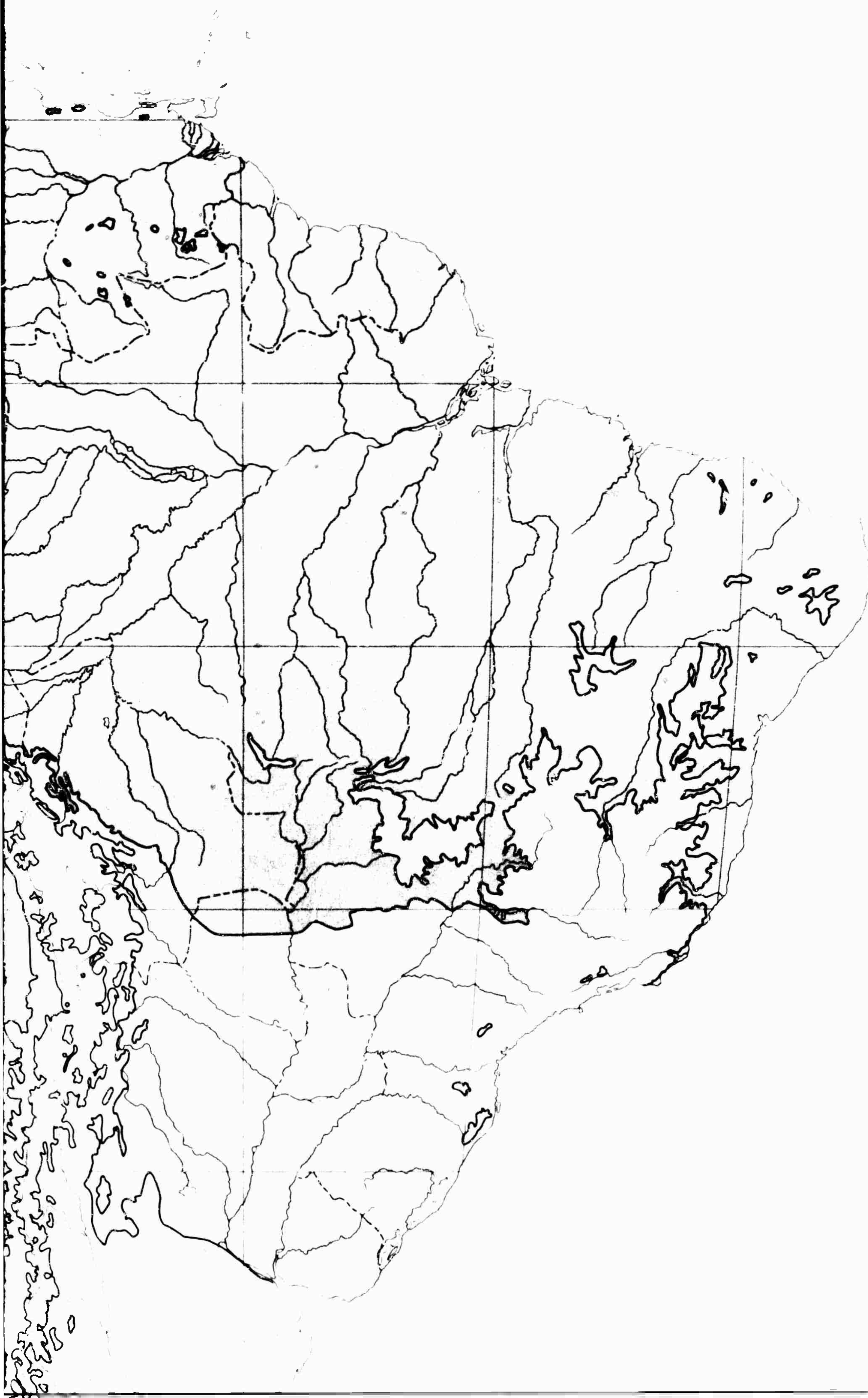
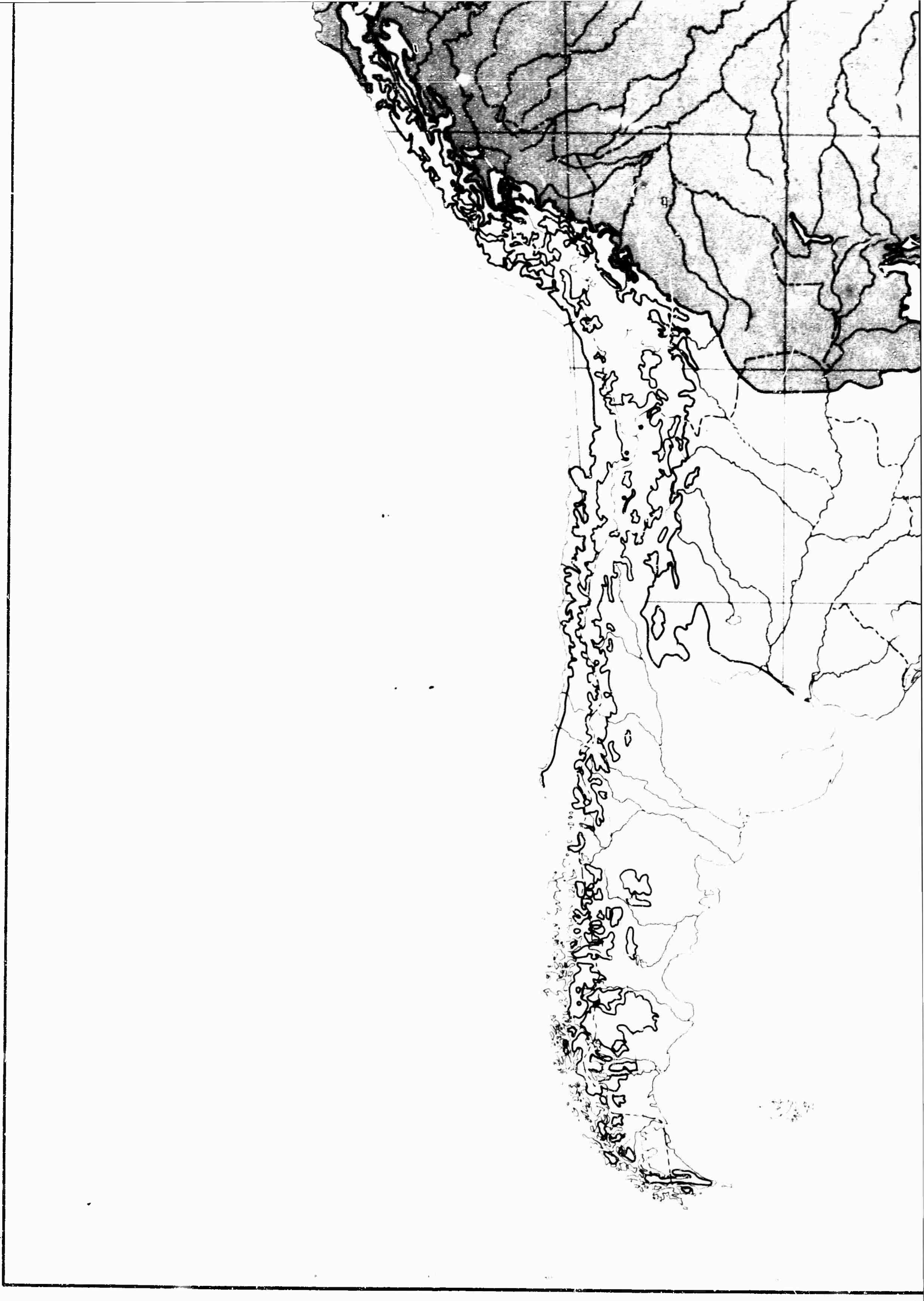
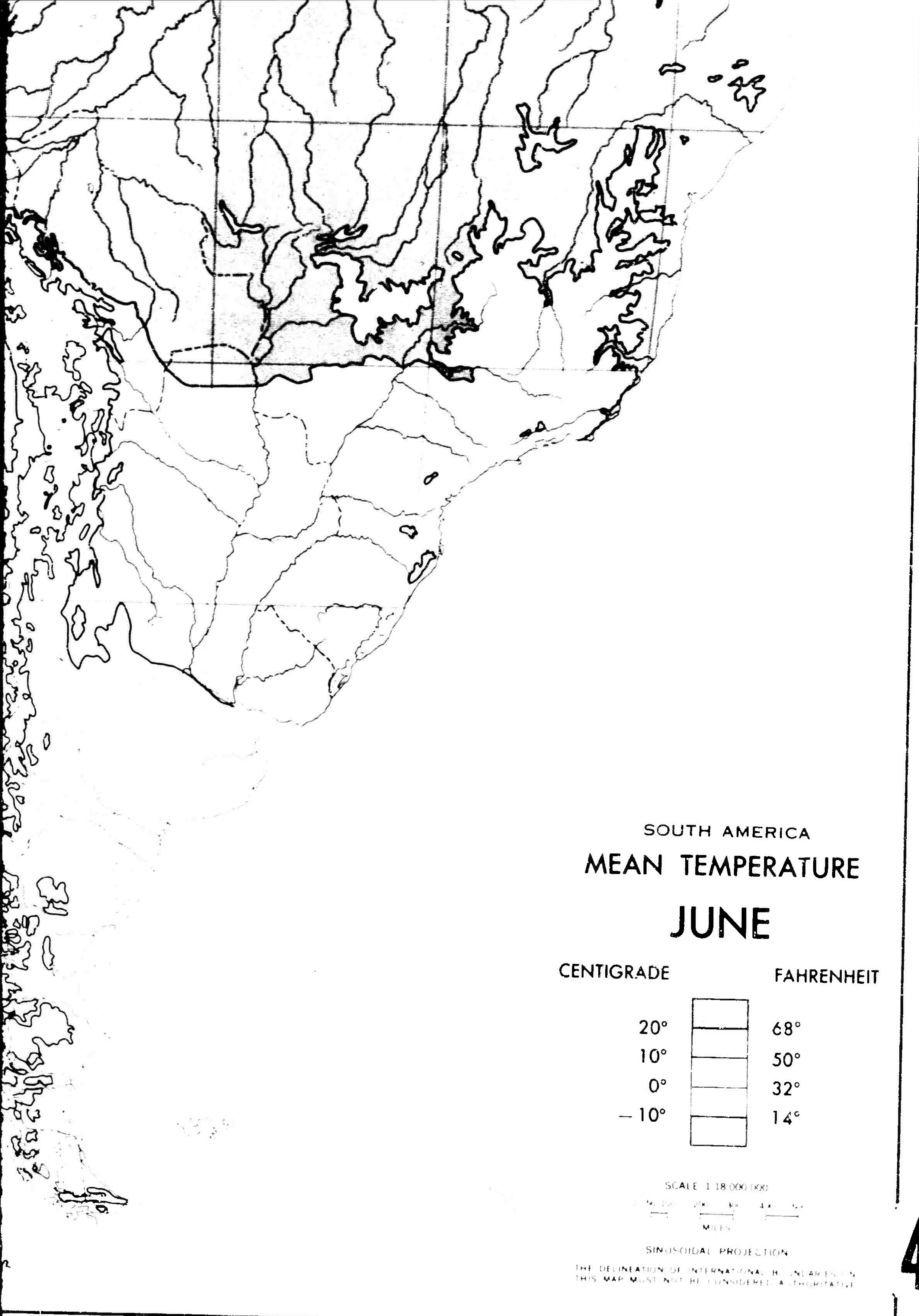
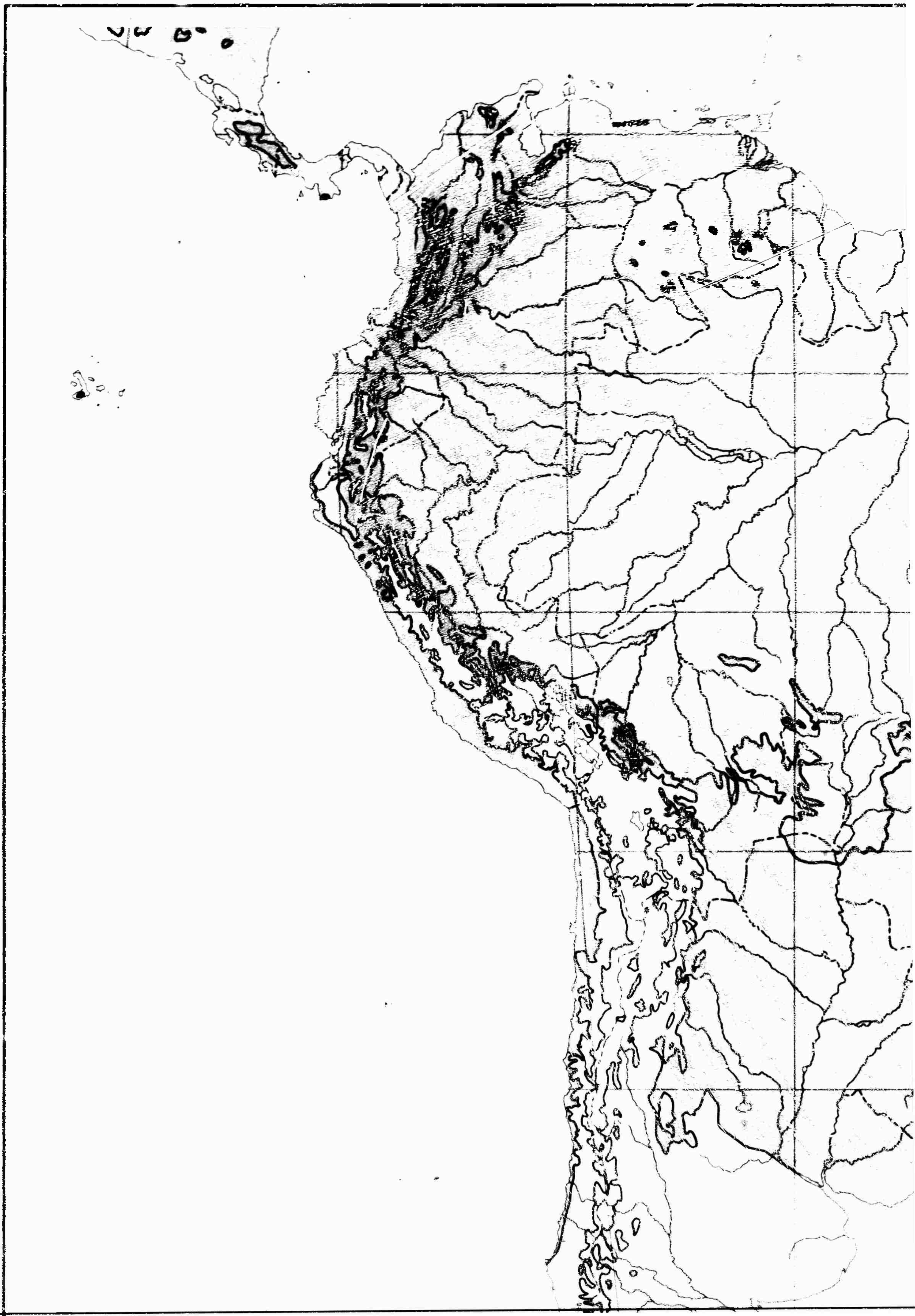
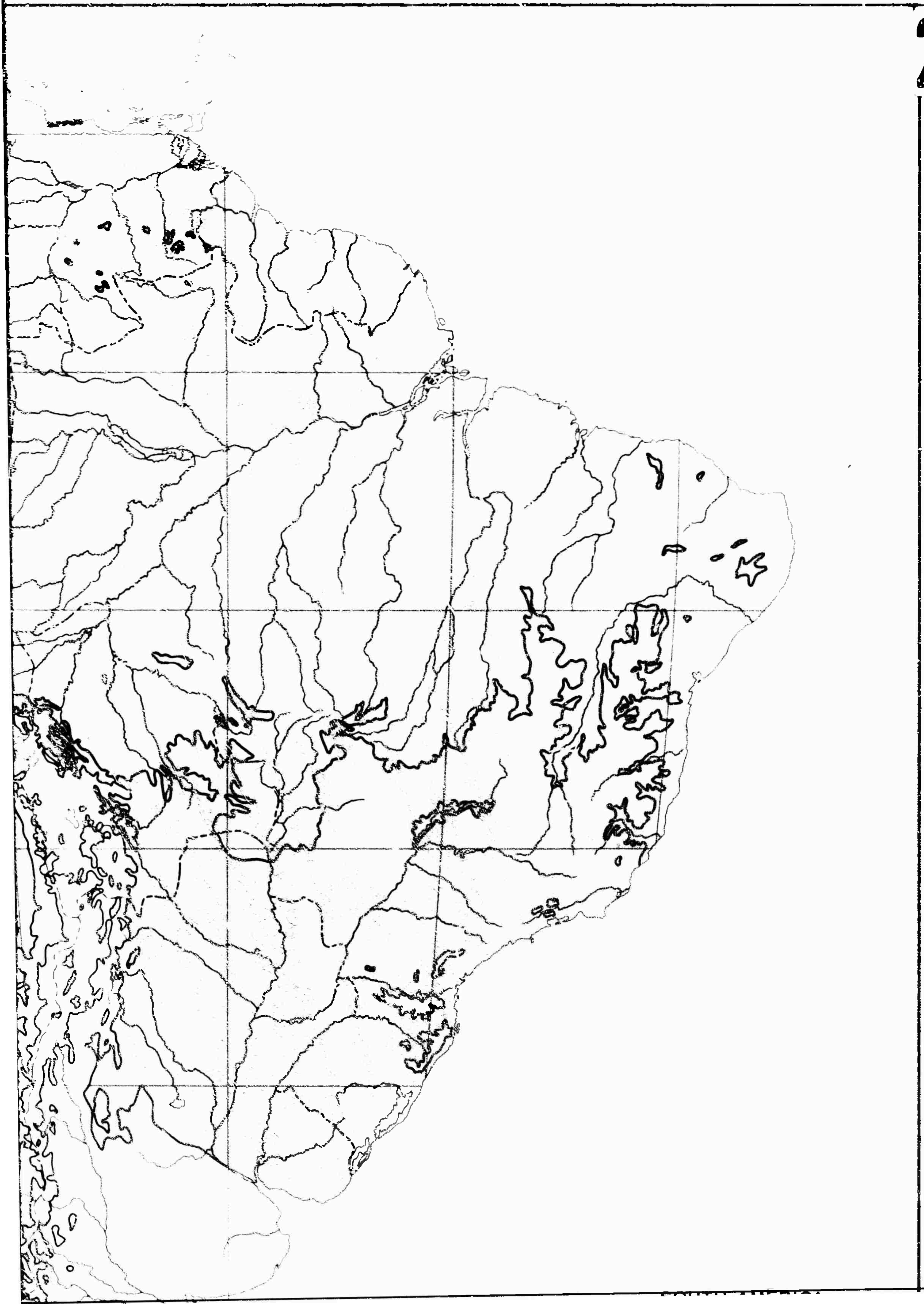





SOUTH AMERICA
MEAN TEMPERATURE
JUNE
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
– 10°
14°
SCALE 1:18 000 000
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

4





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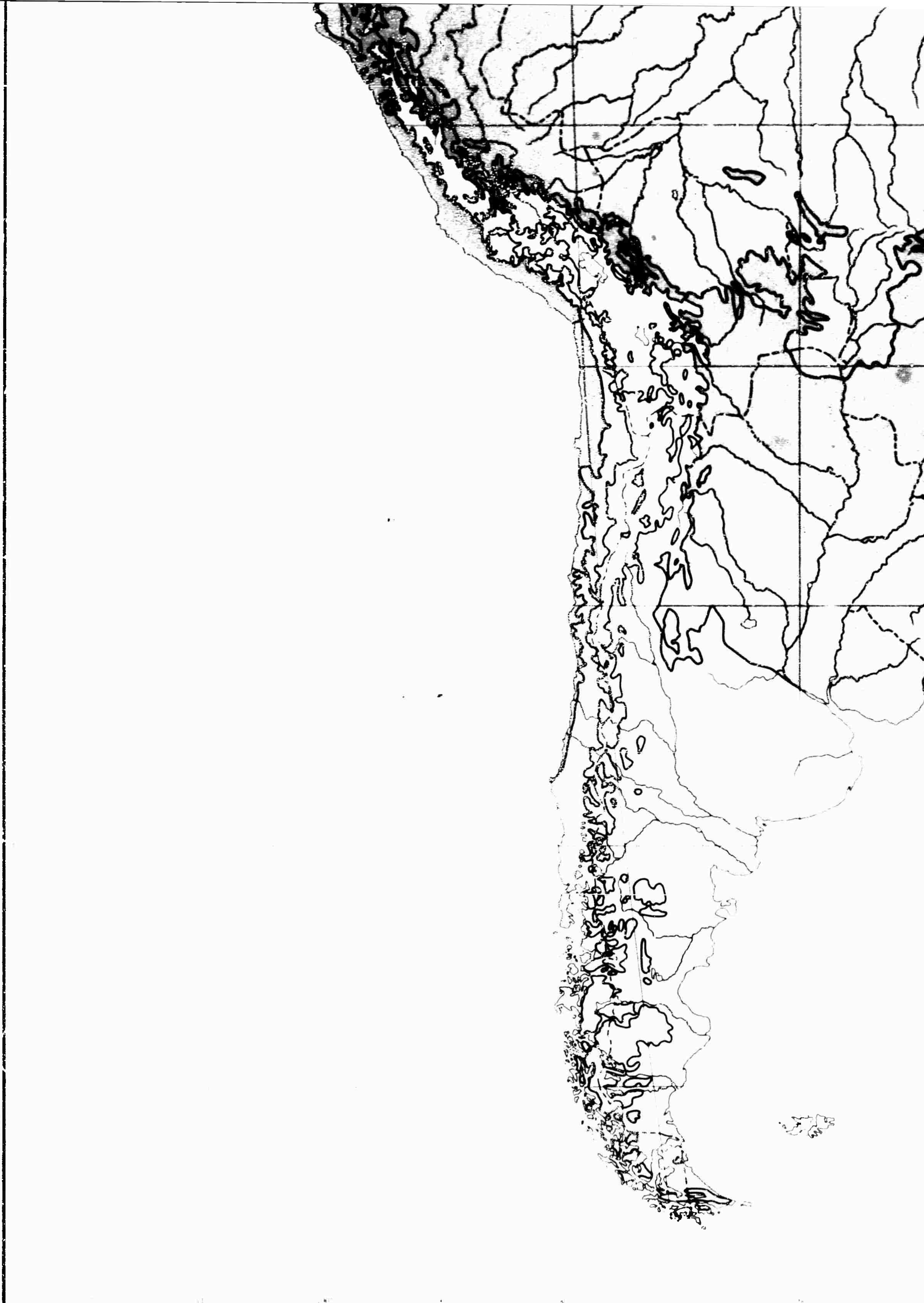
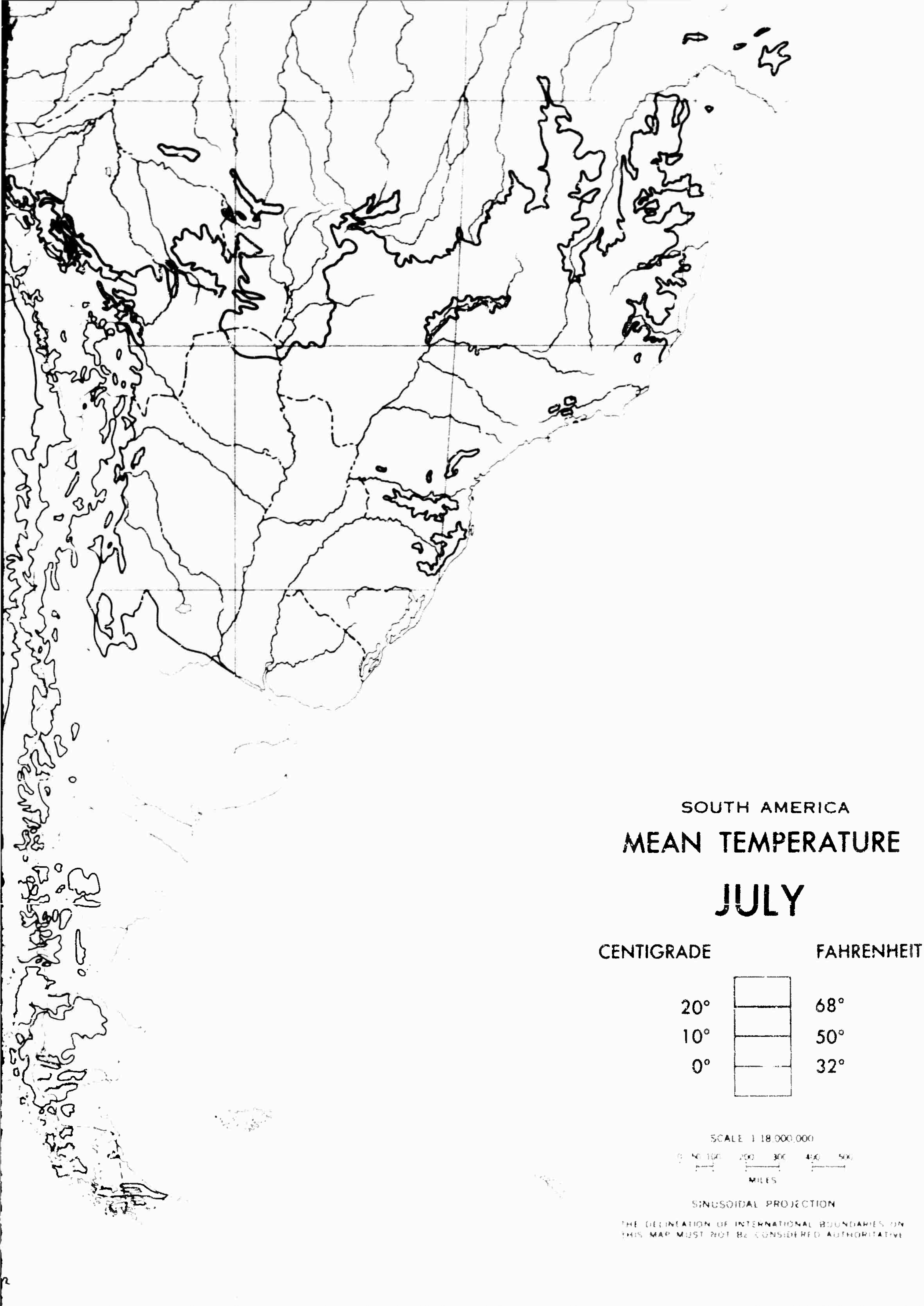
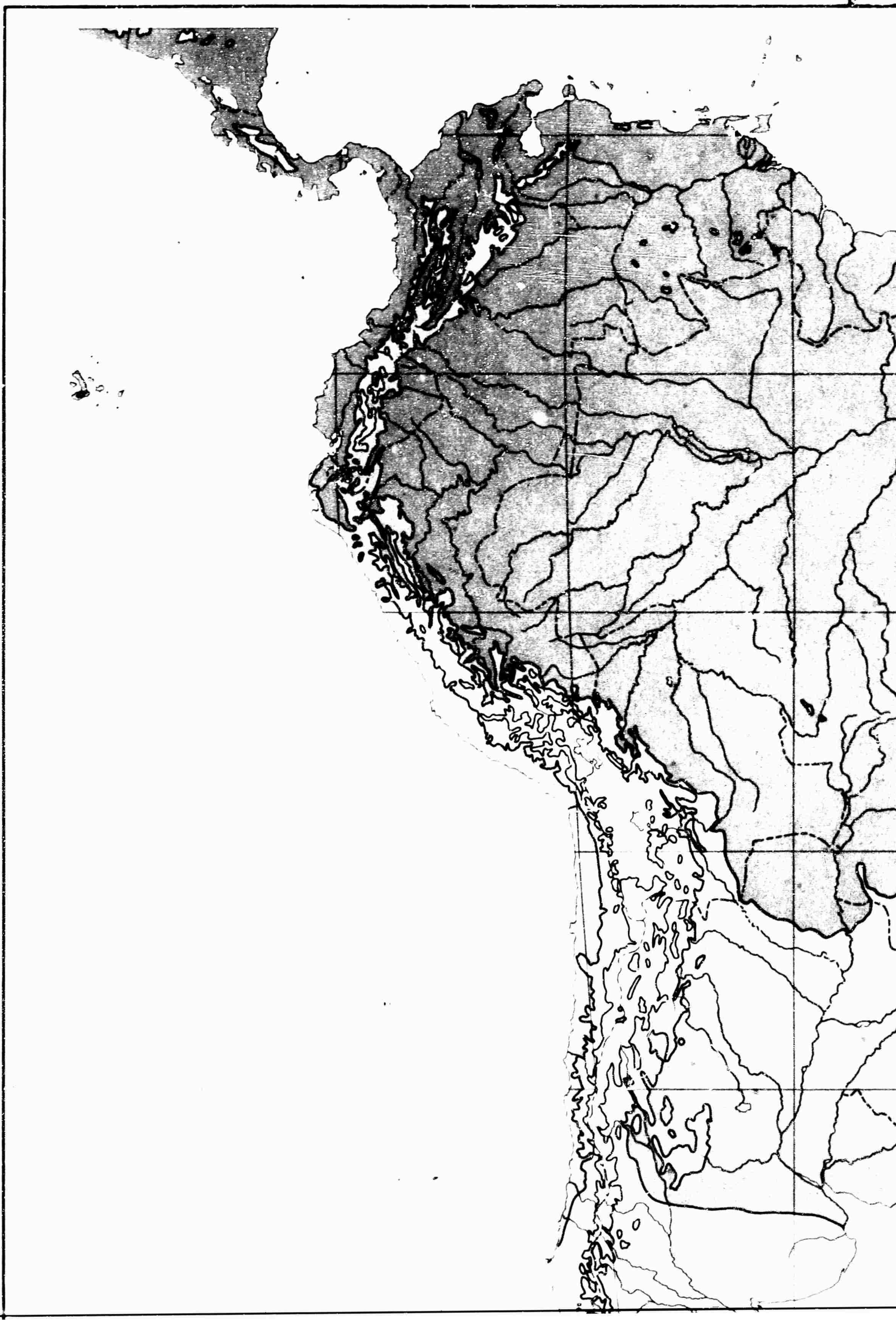



SOUTH AMERICA
MEAN TEMPERATURE
JULY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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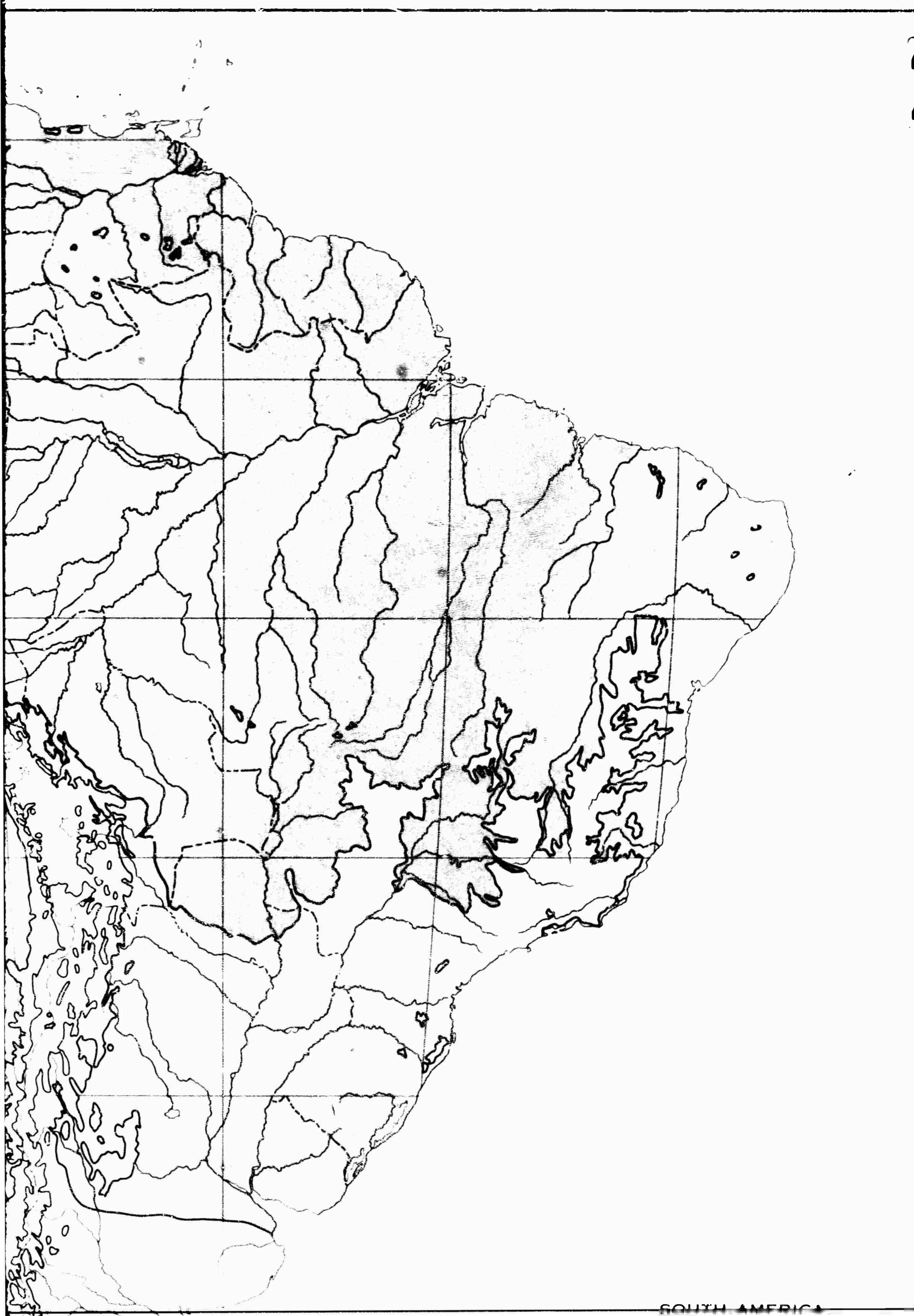

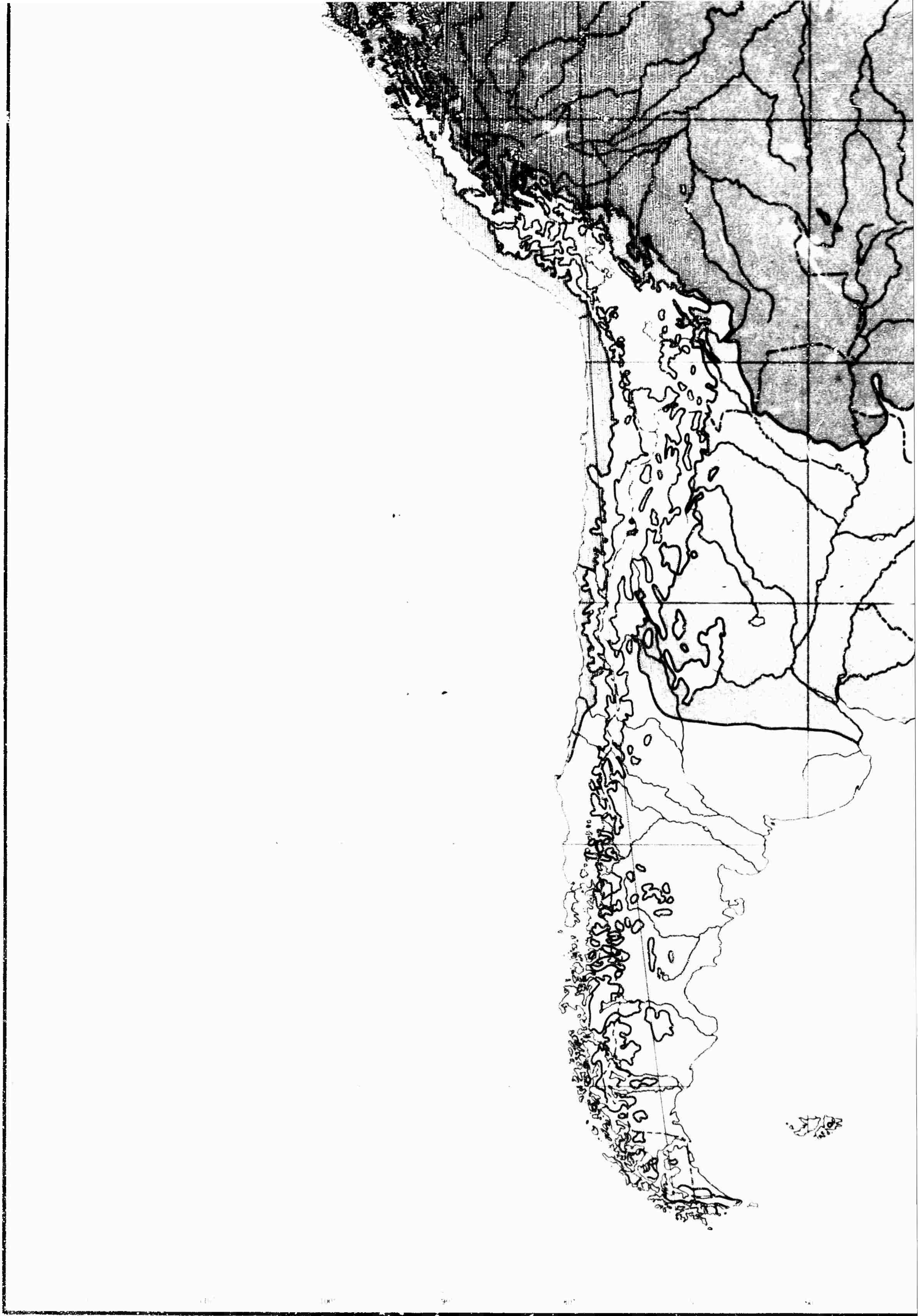

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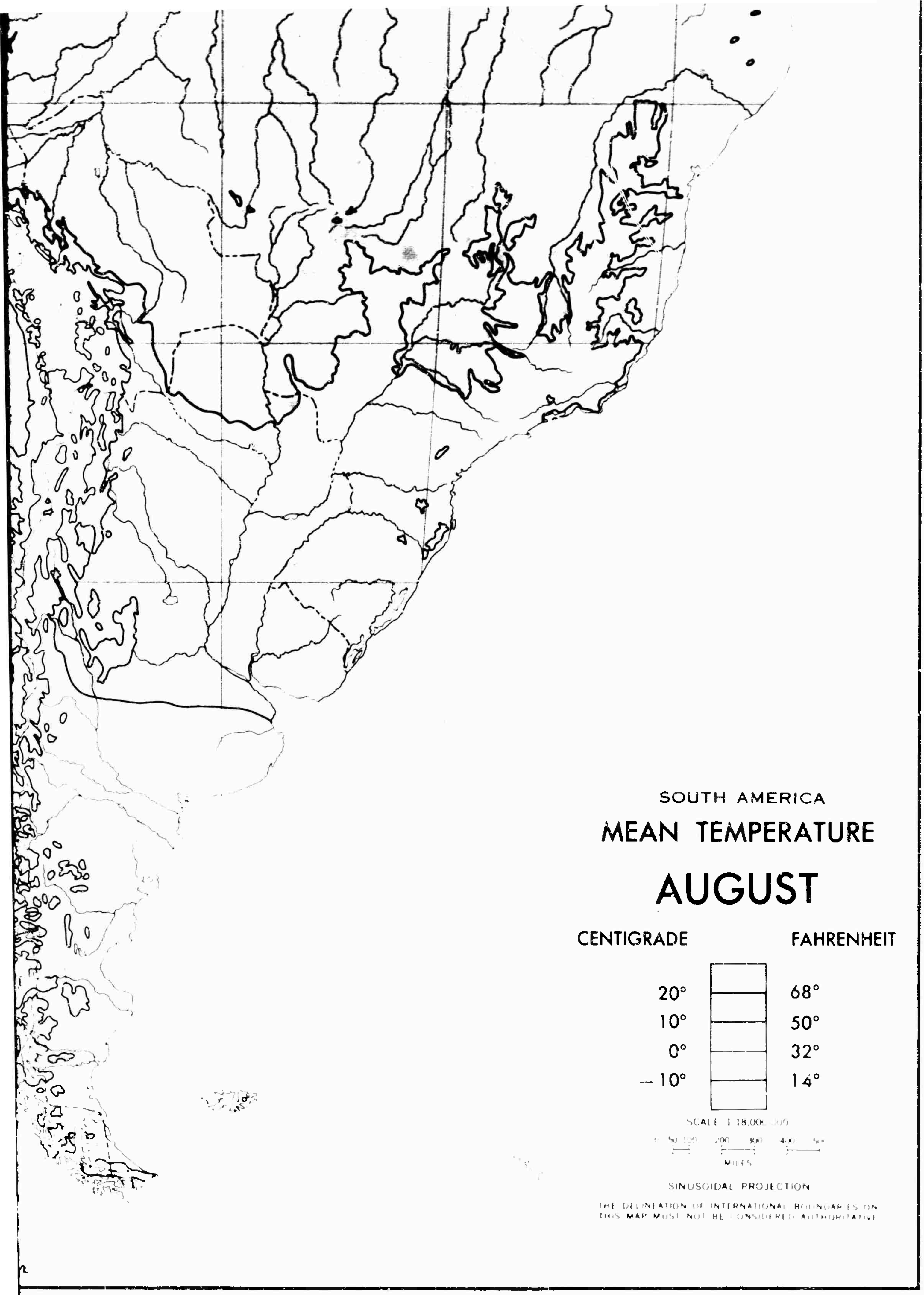
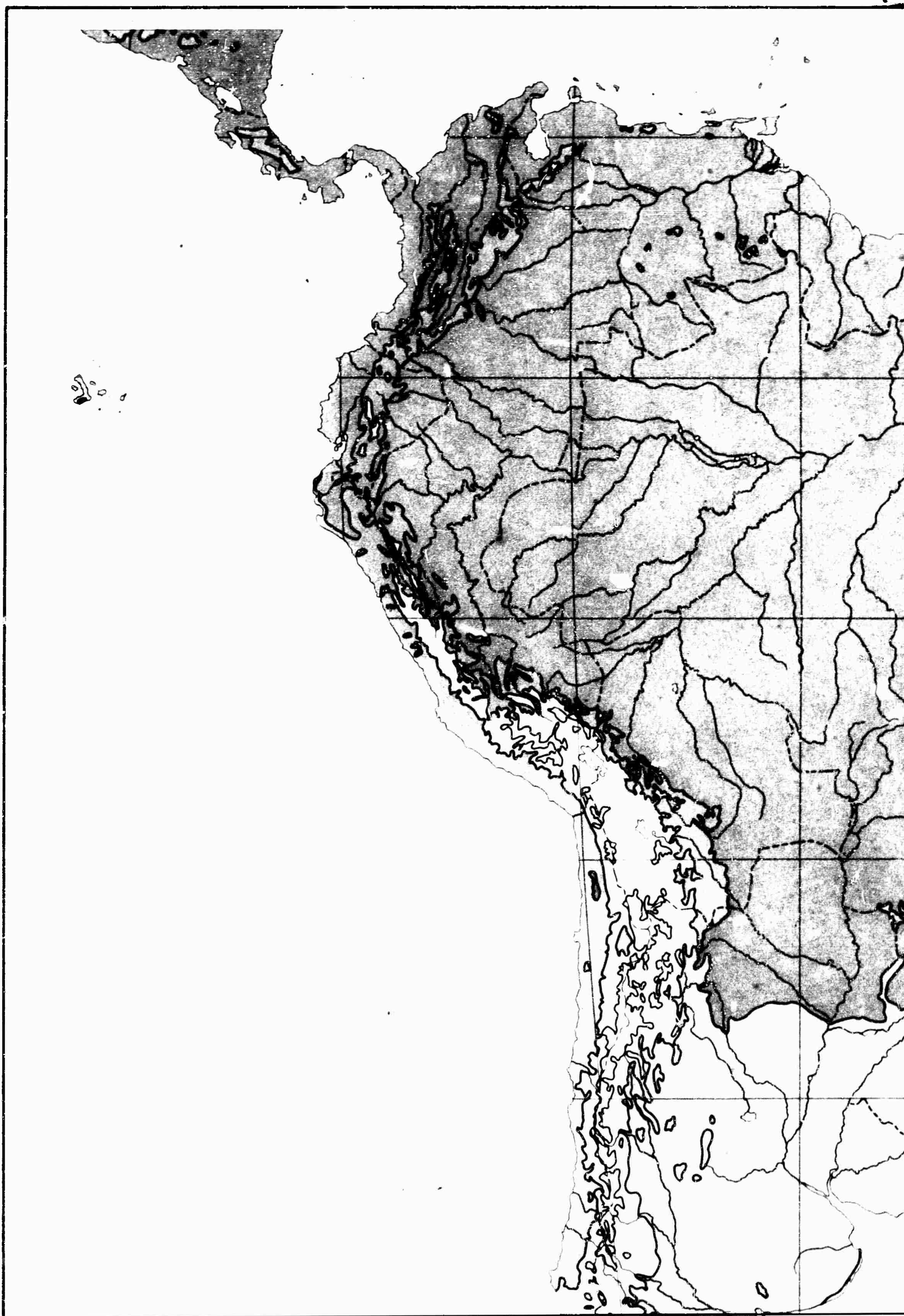
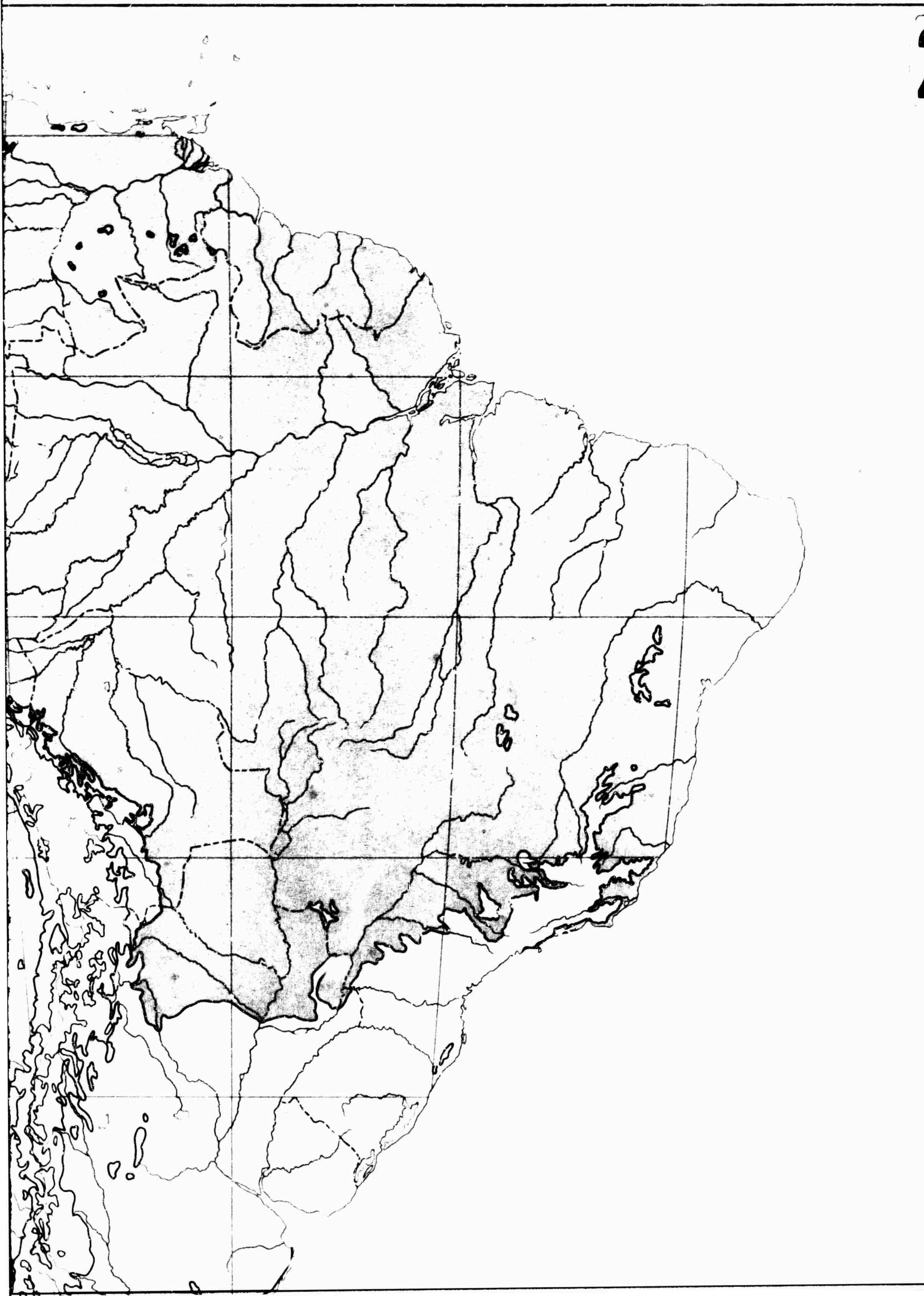
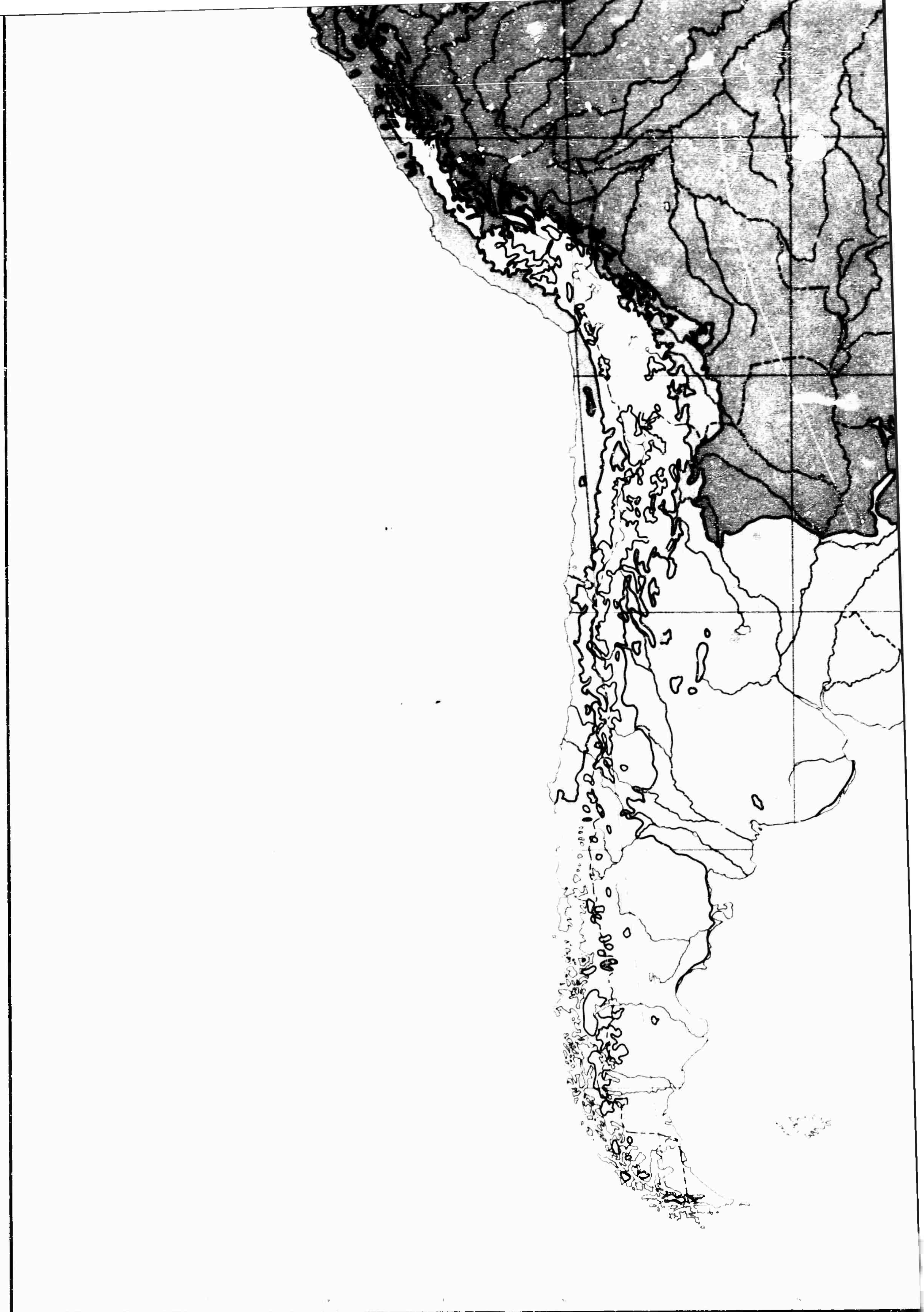

SOUTH AMERICA
MEAN TEMPERATURE
AUGUST
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
– 10°
14°
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE







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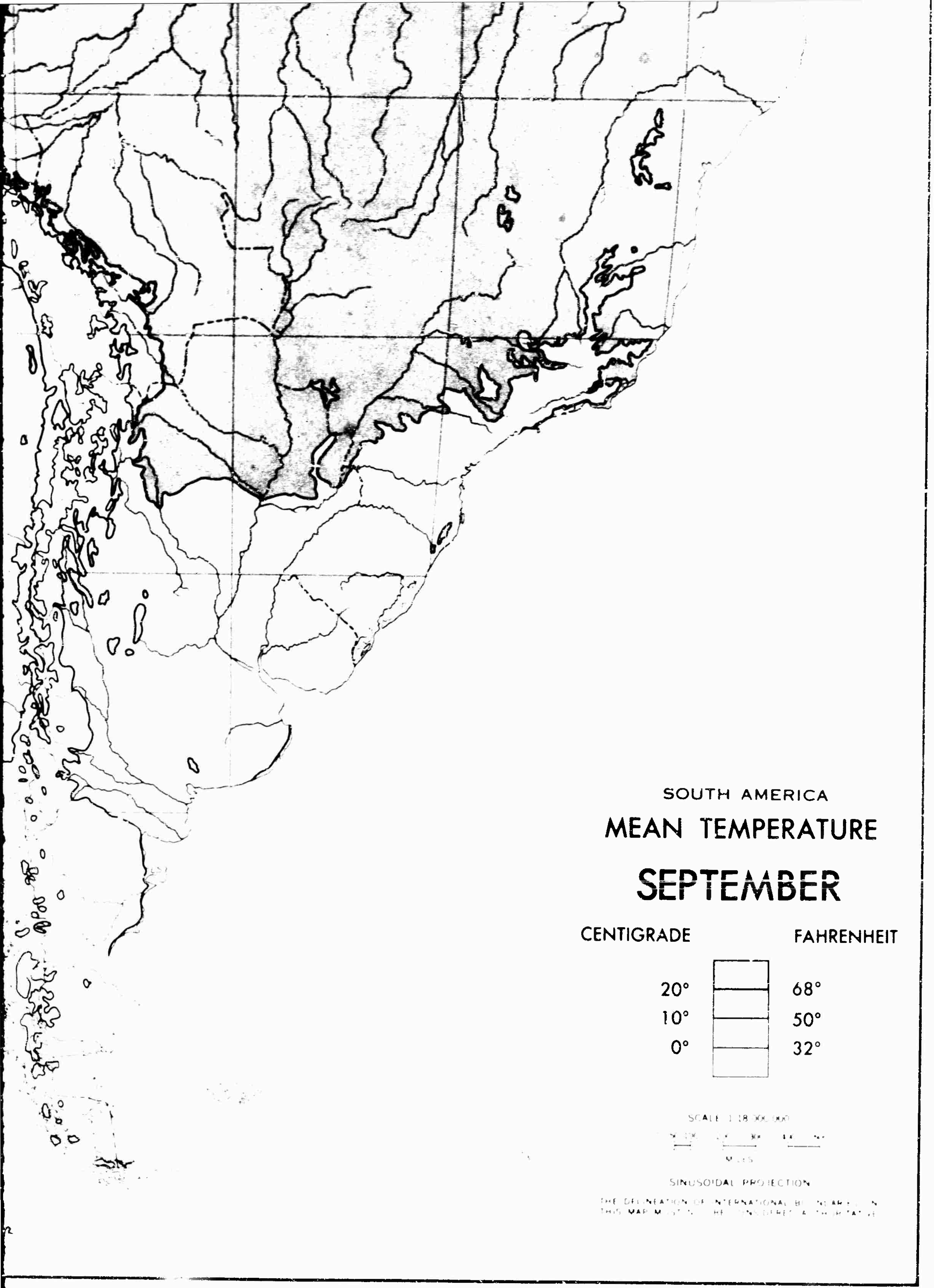
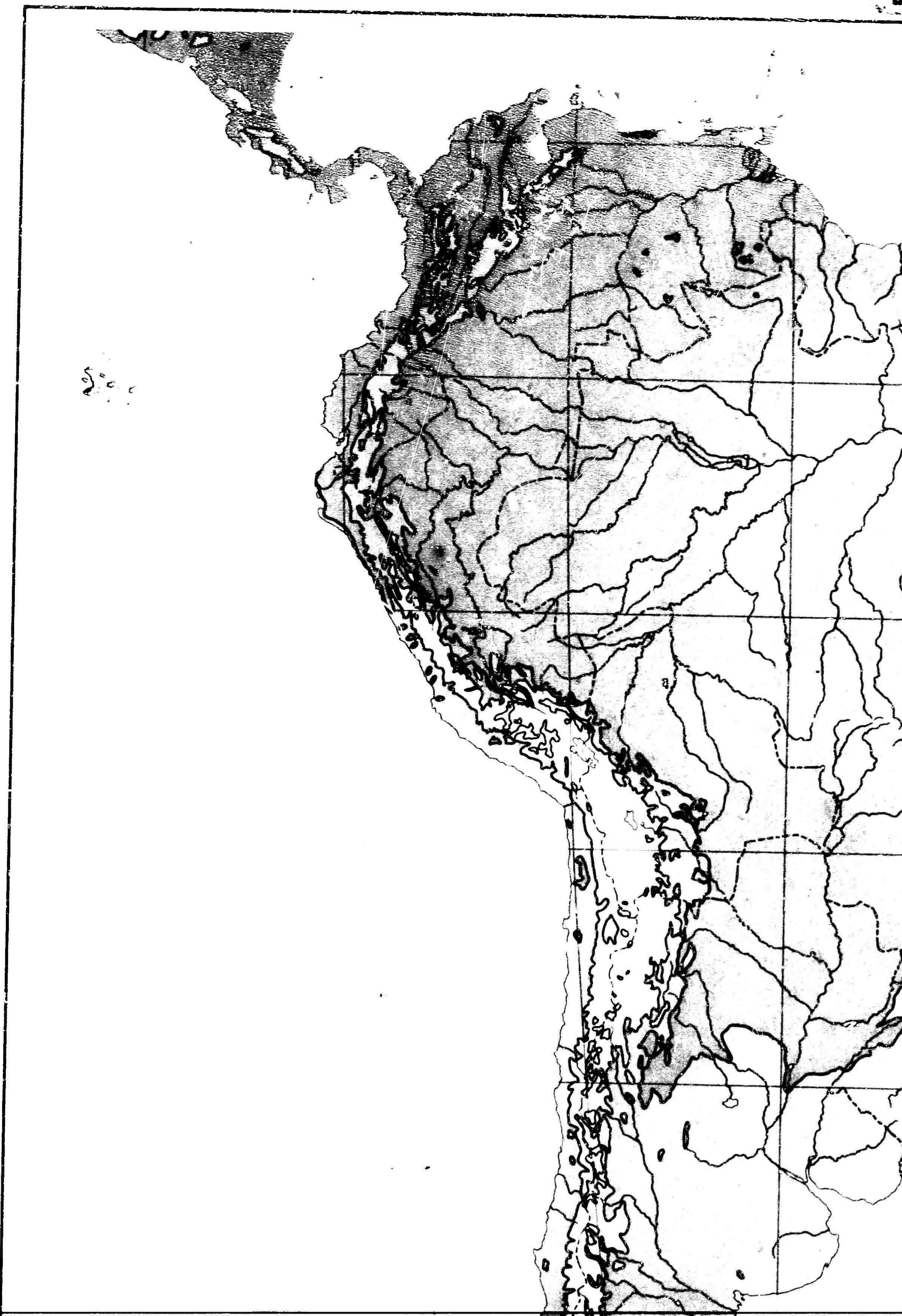
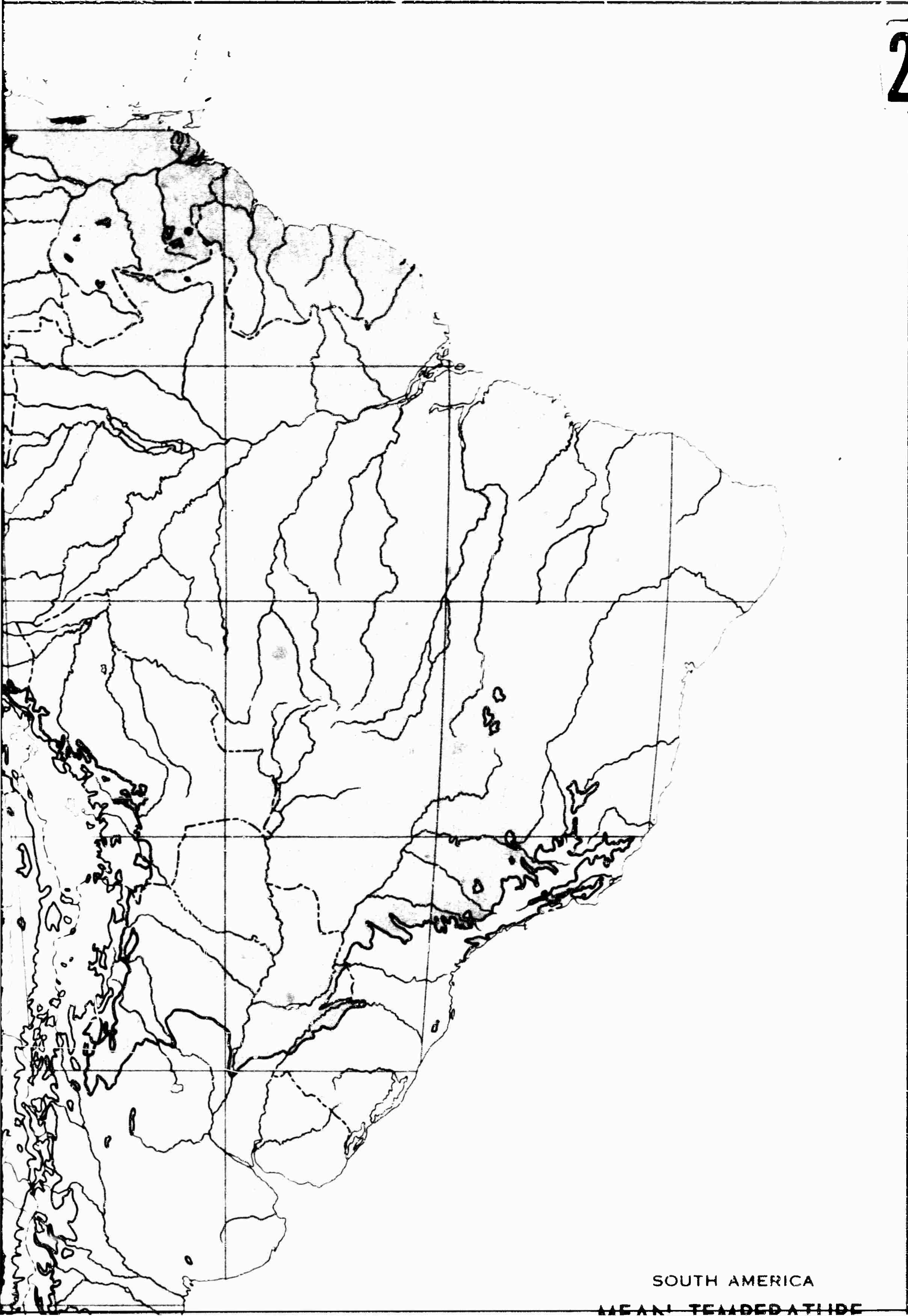
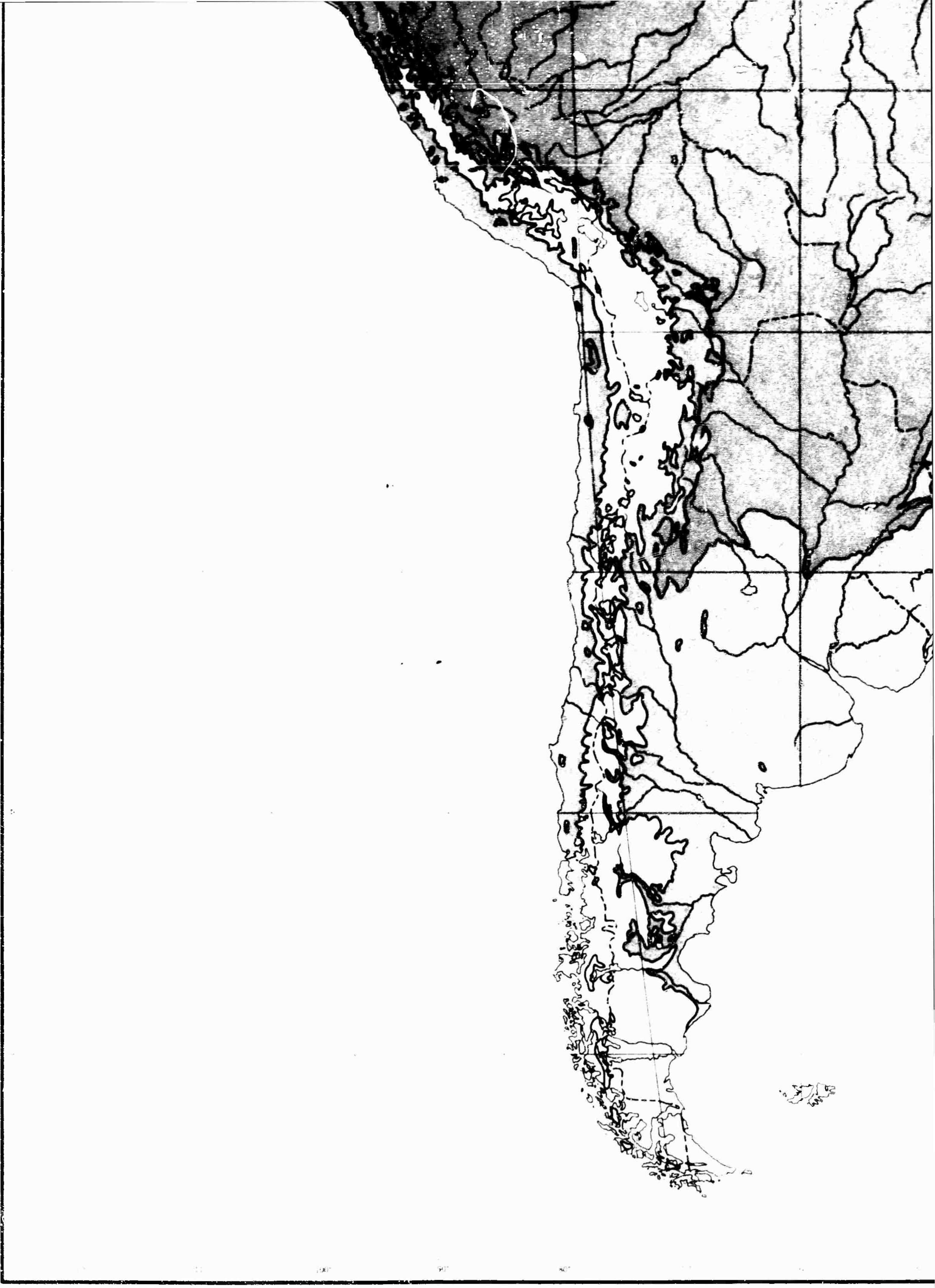

SOUTH AMERICA
MEAN TEMPERATURE
SEPTEMBER
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SINUSOIDAL PROJECTION

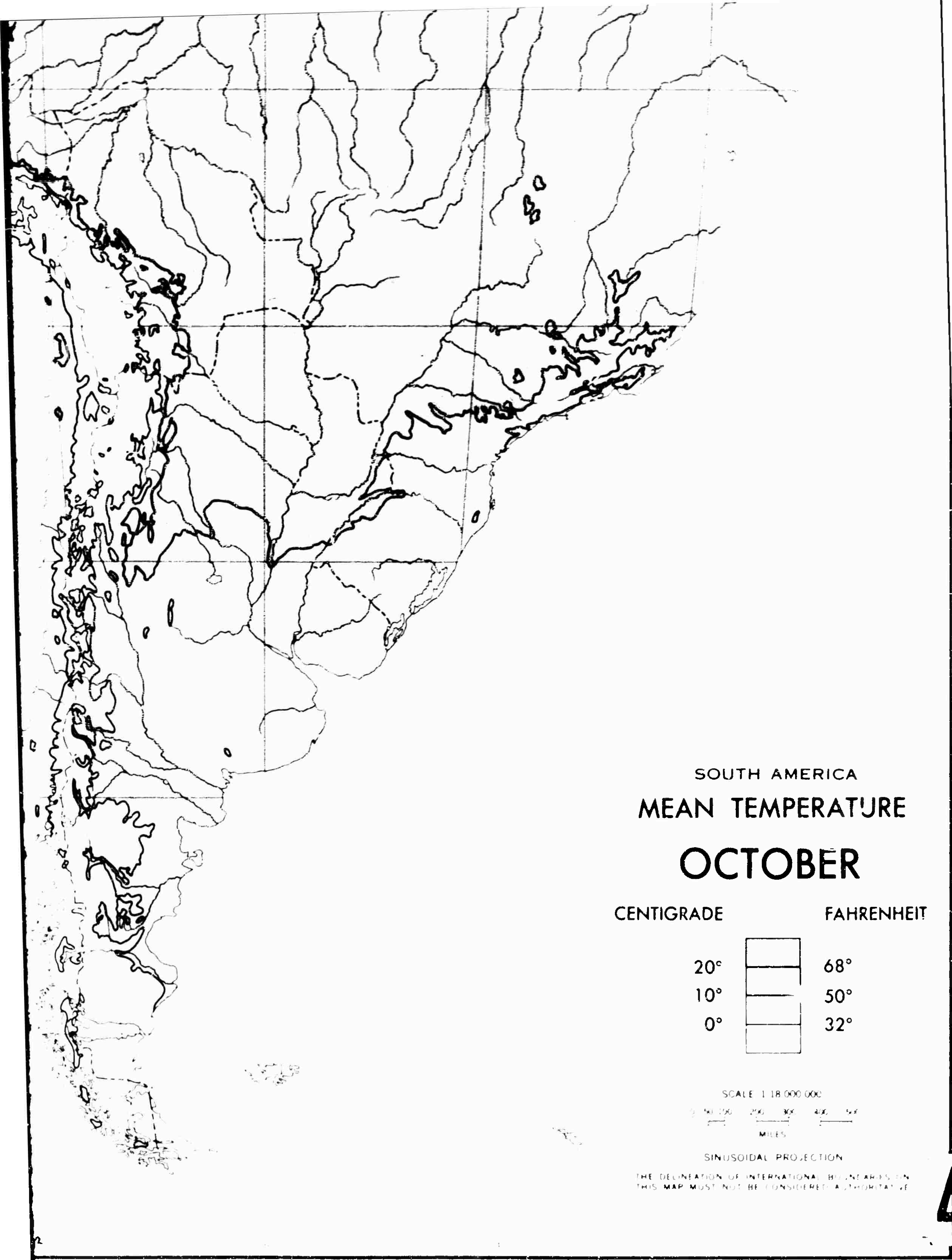




SOUTH AMERICA

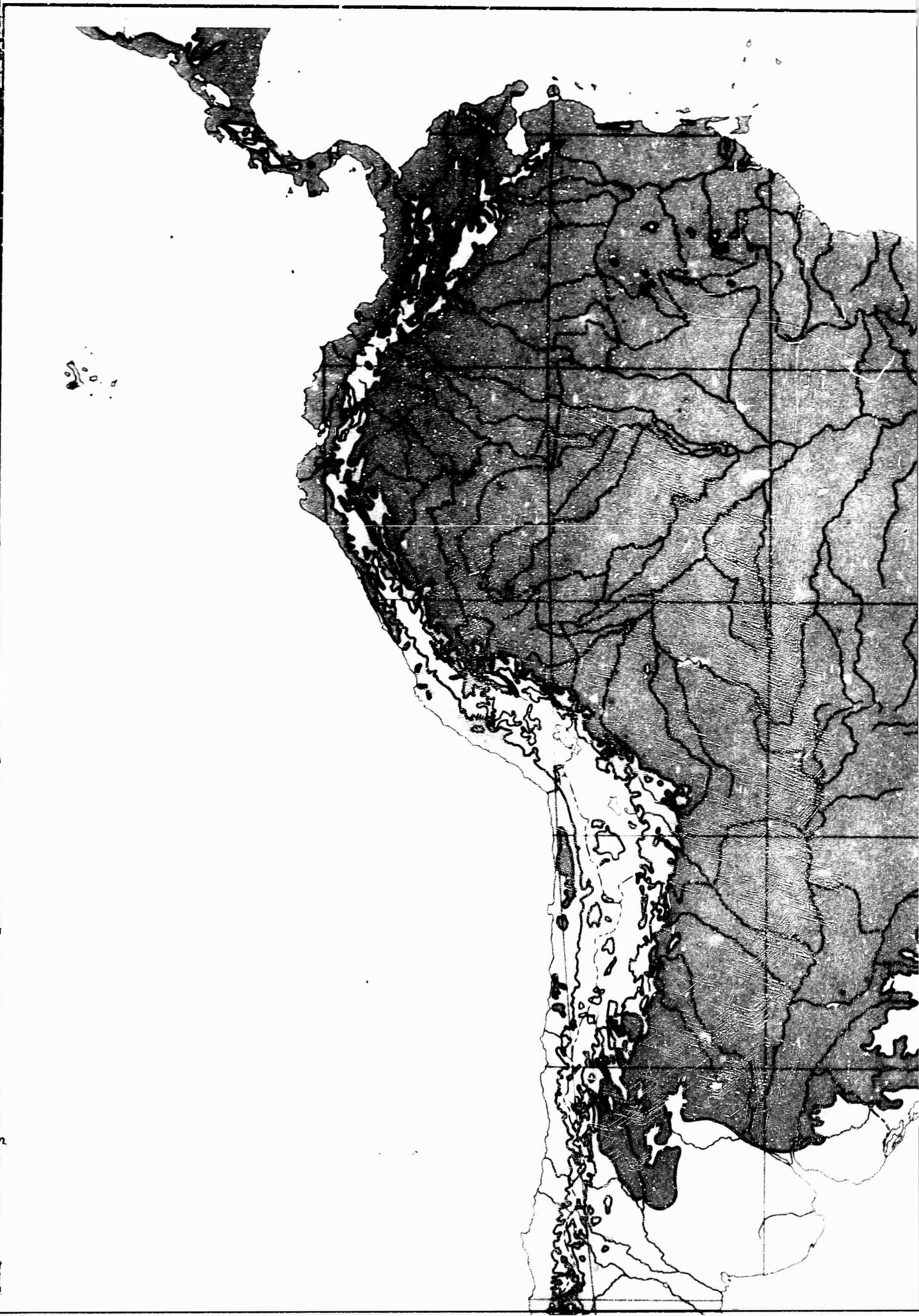
MEAN TEMPERATURE

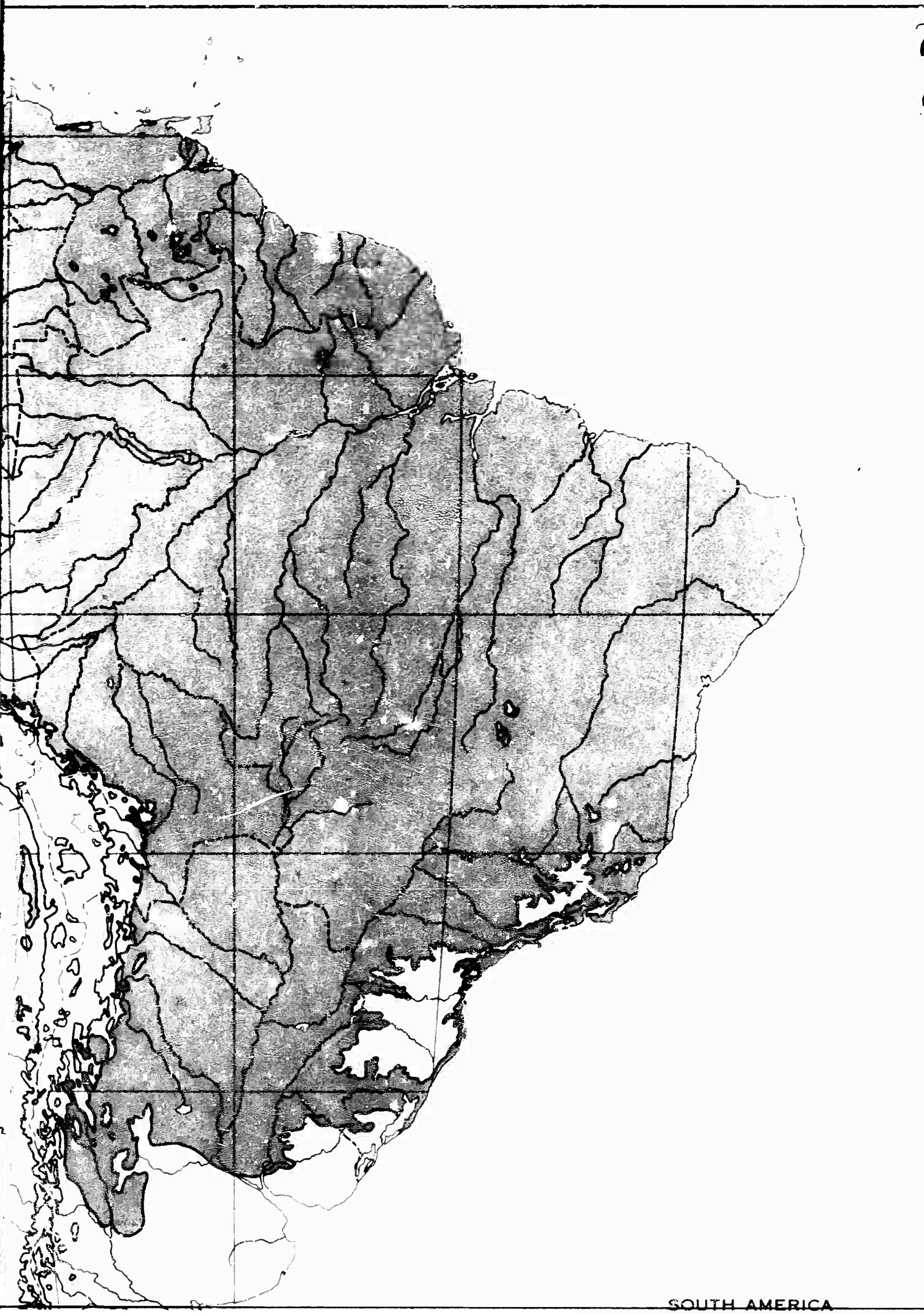


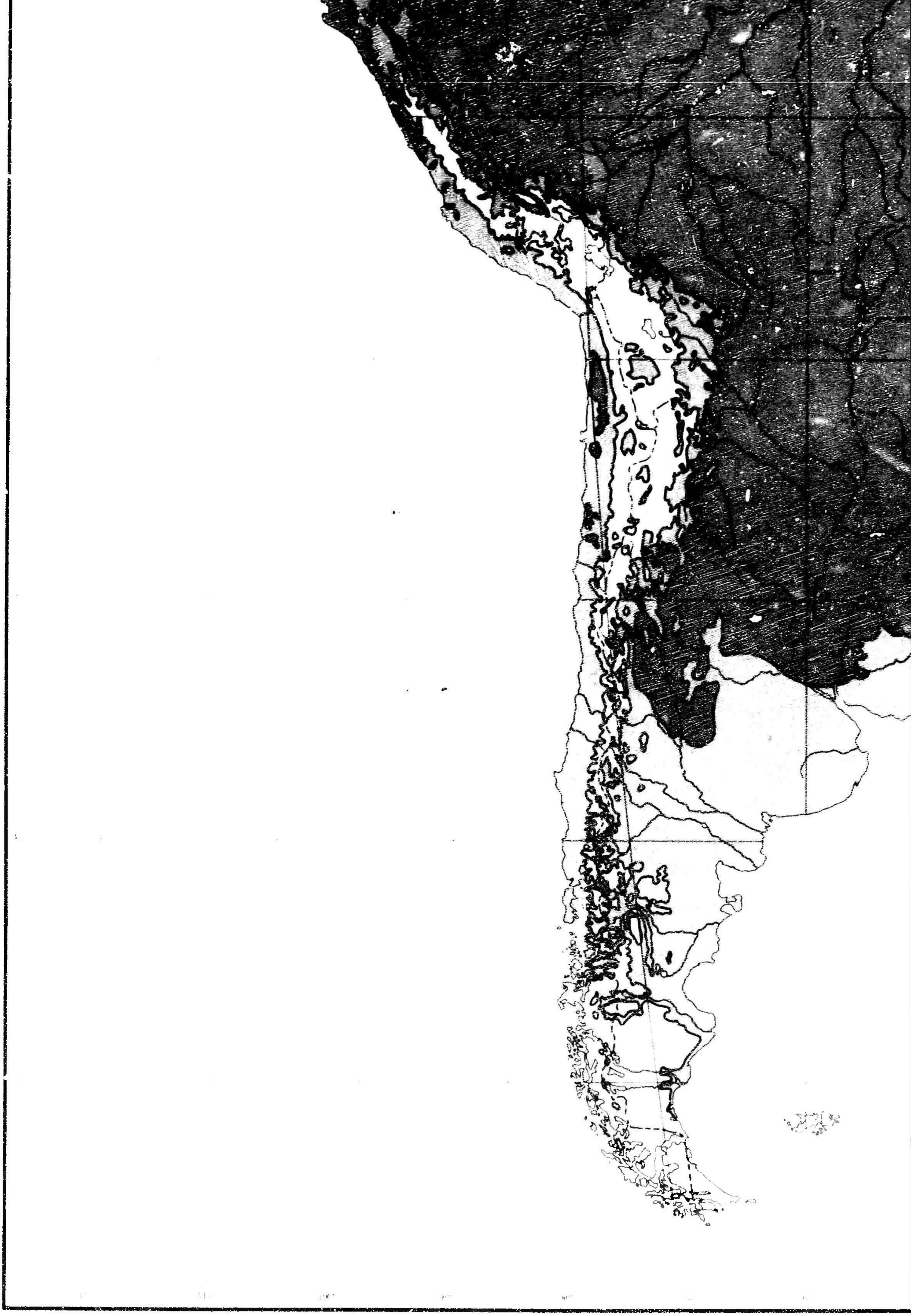


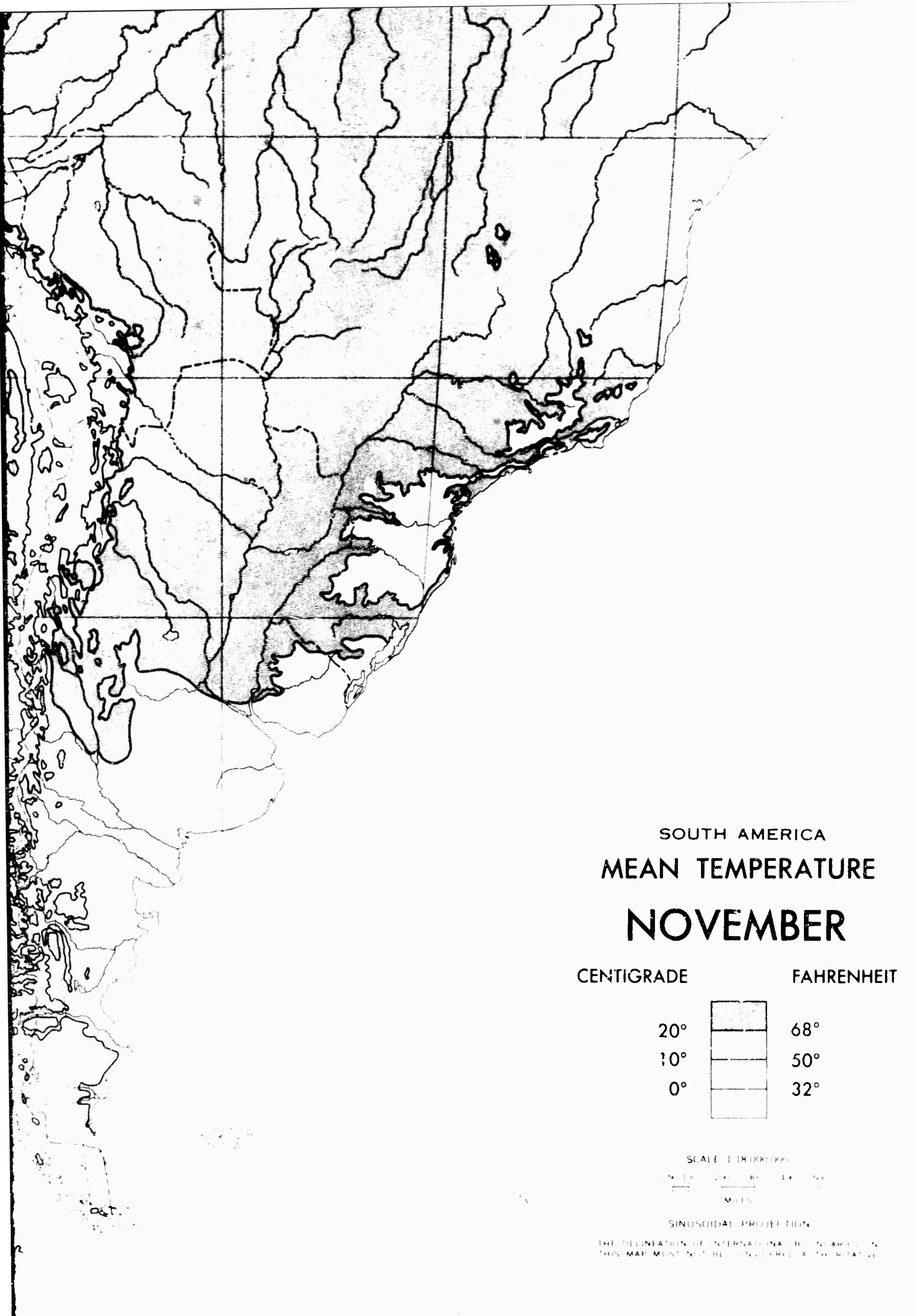
SOUTH AMERICA
MEAN TEMPERATURE
OCTOBER
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

4

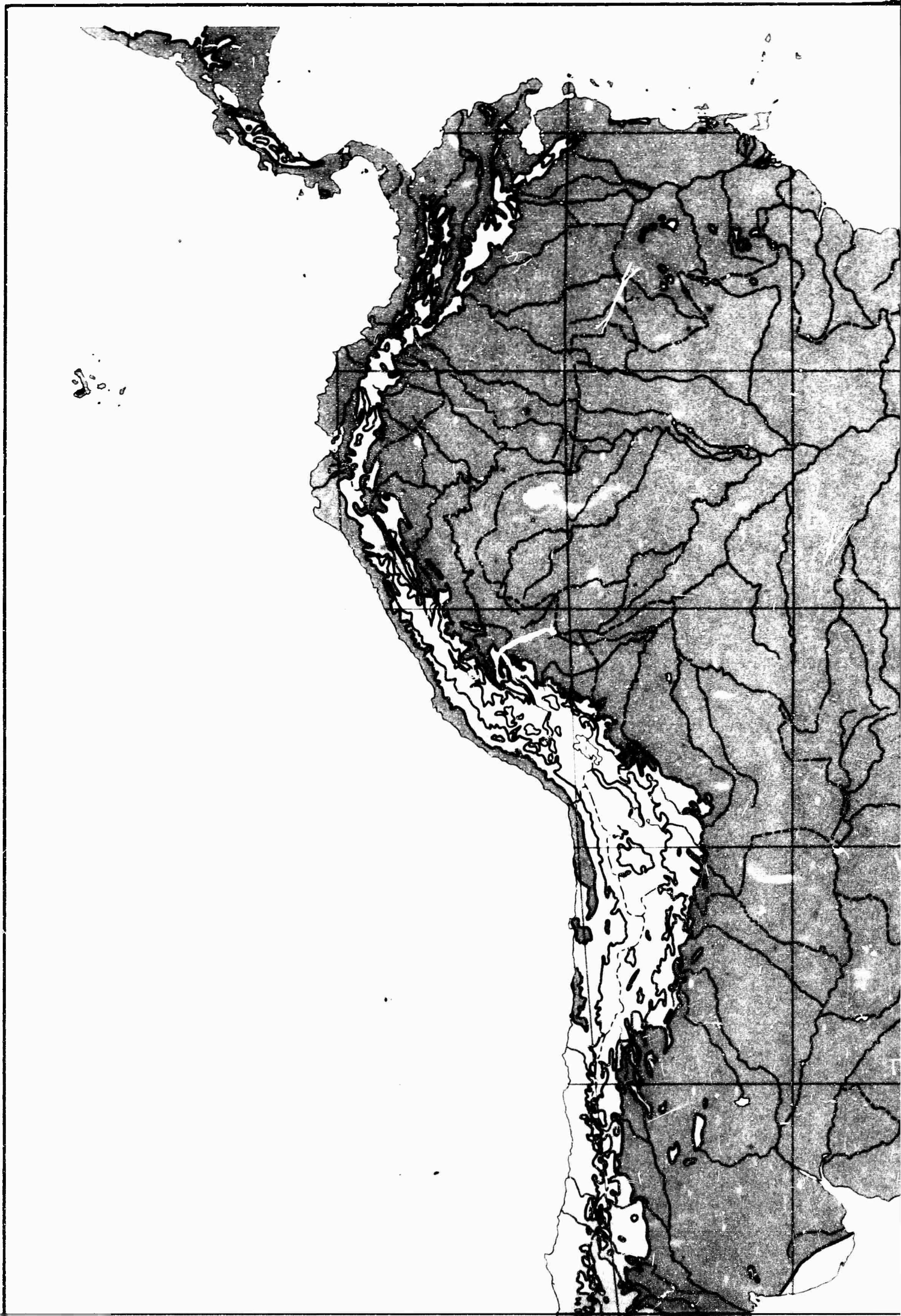



SOUTH AMERICA



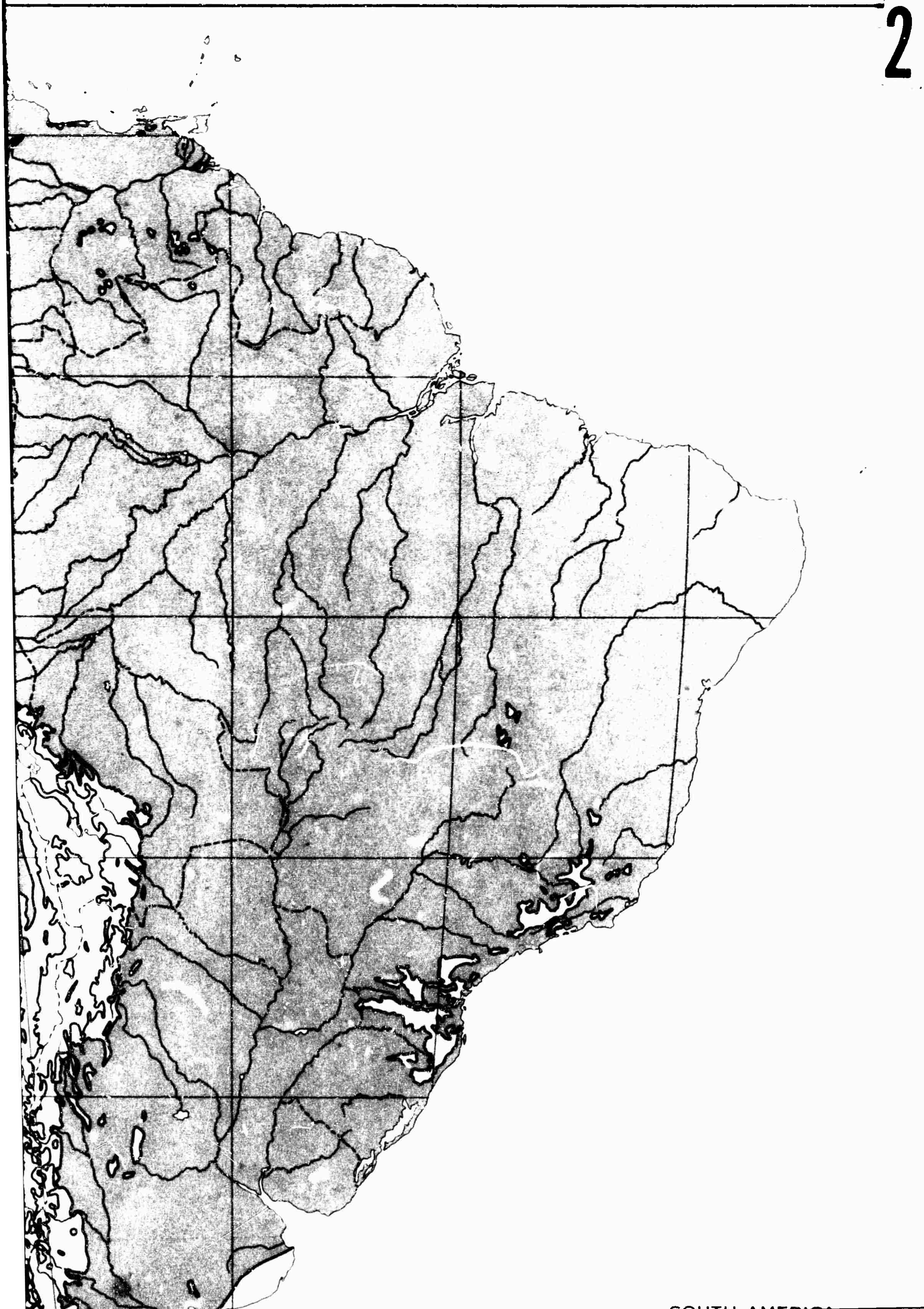

SOUTH AMERICA
MEAN TEMPERATURE
NOVEMBER
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SINUSOIDAL PROJECTION

4

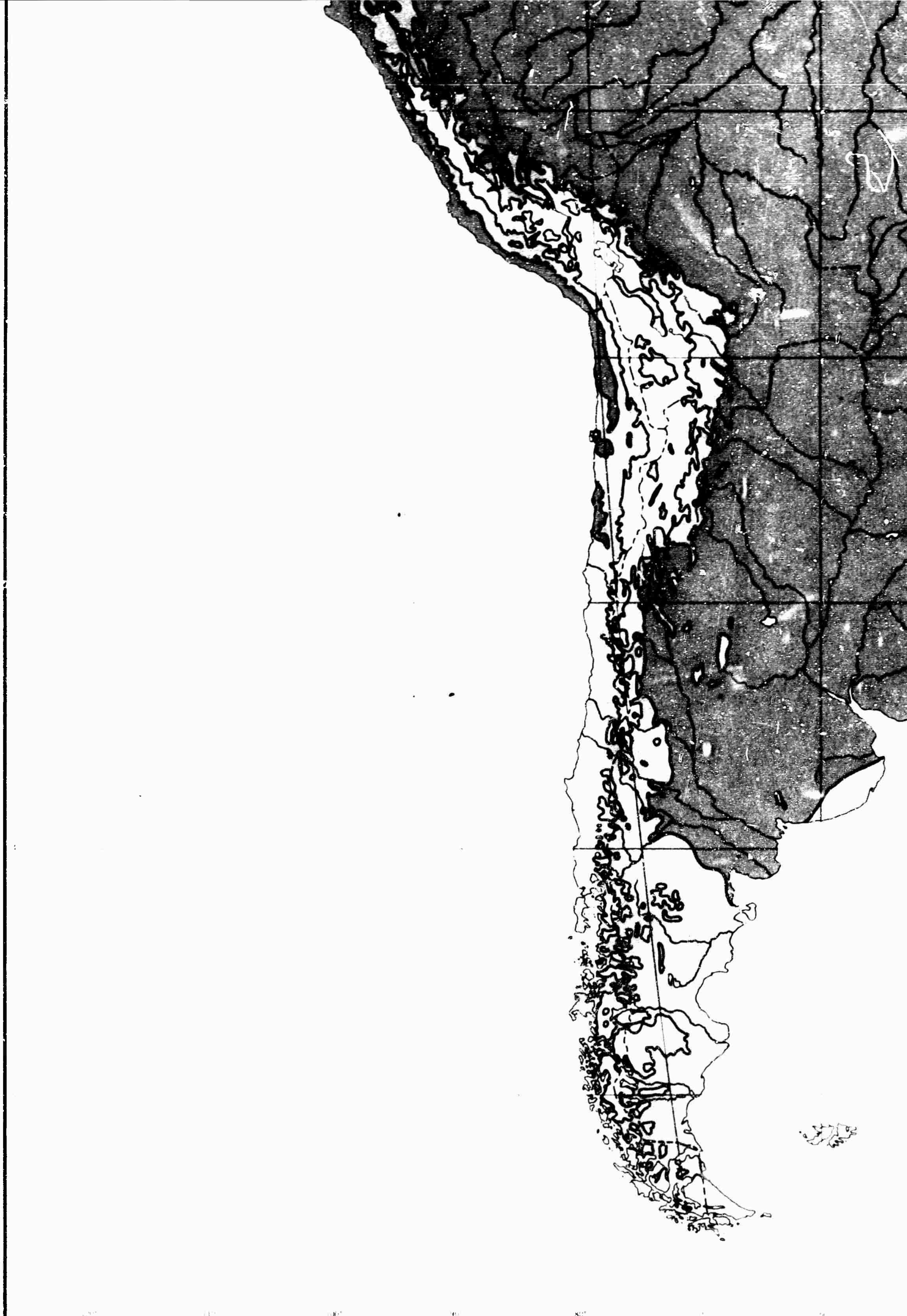


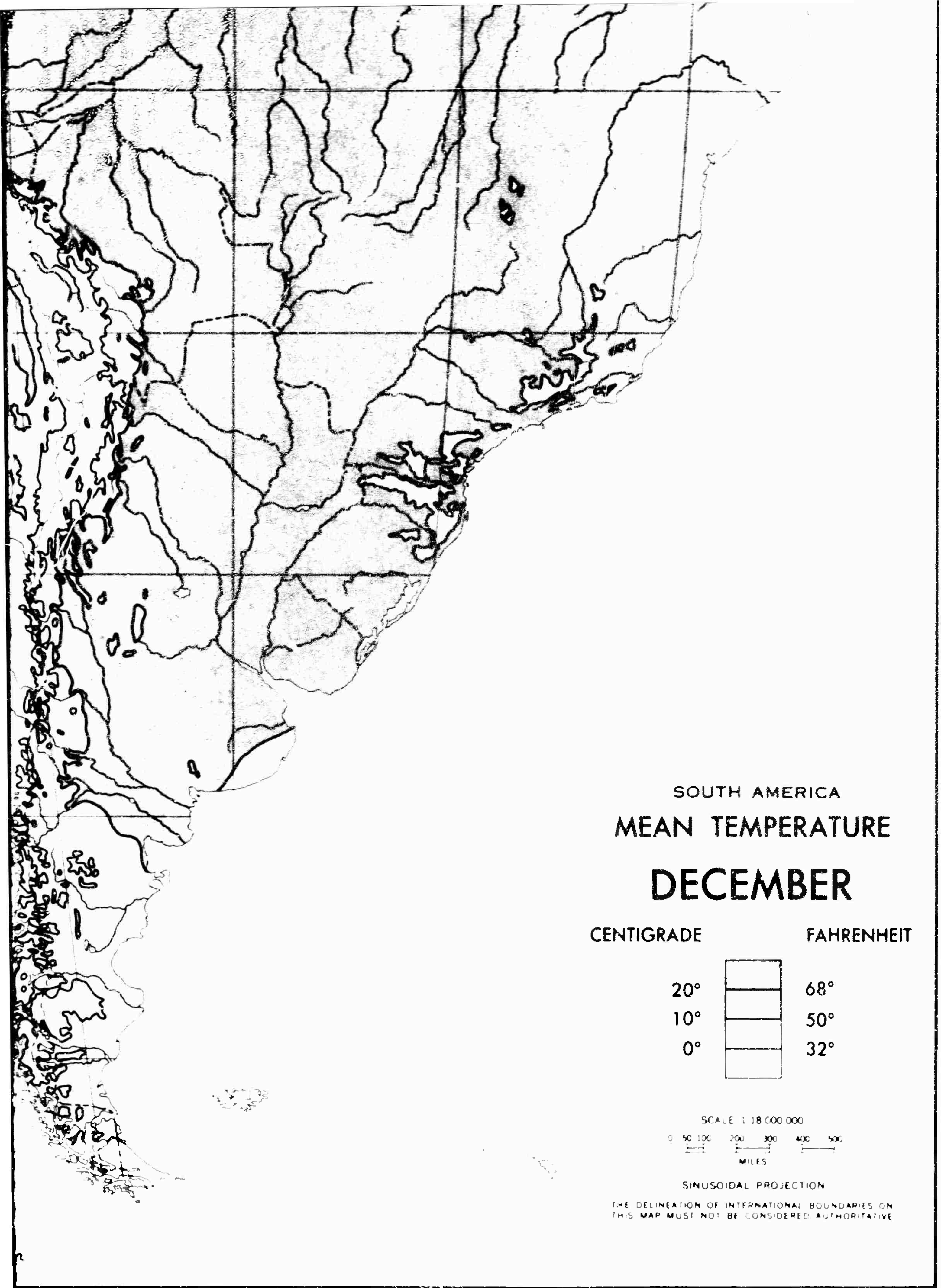
MAP 24

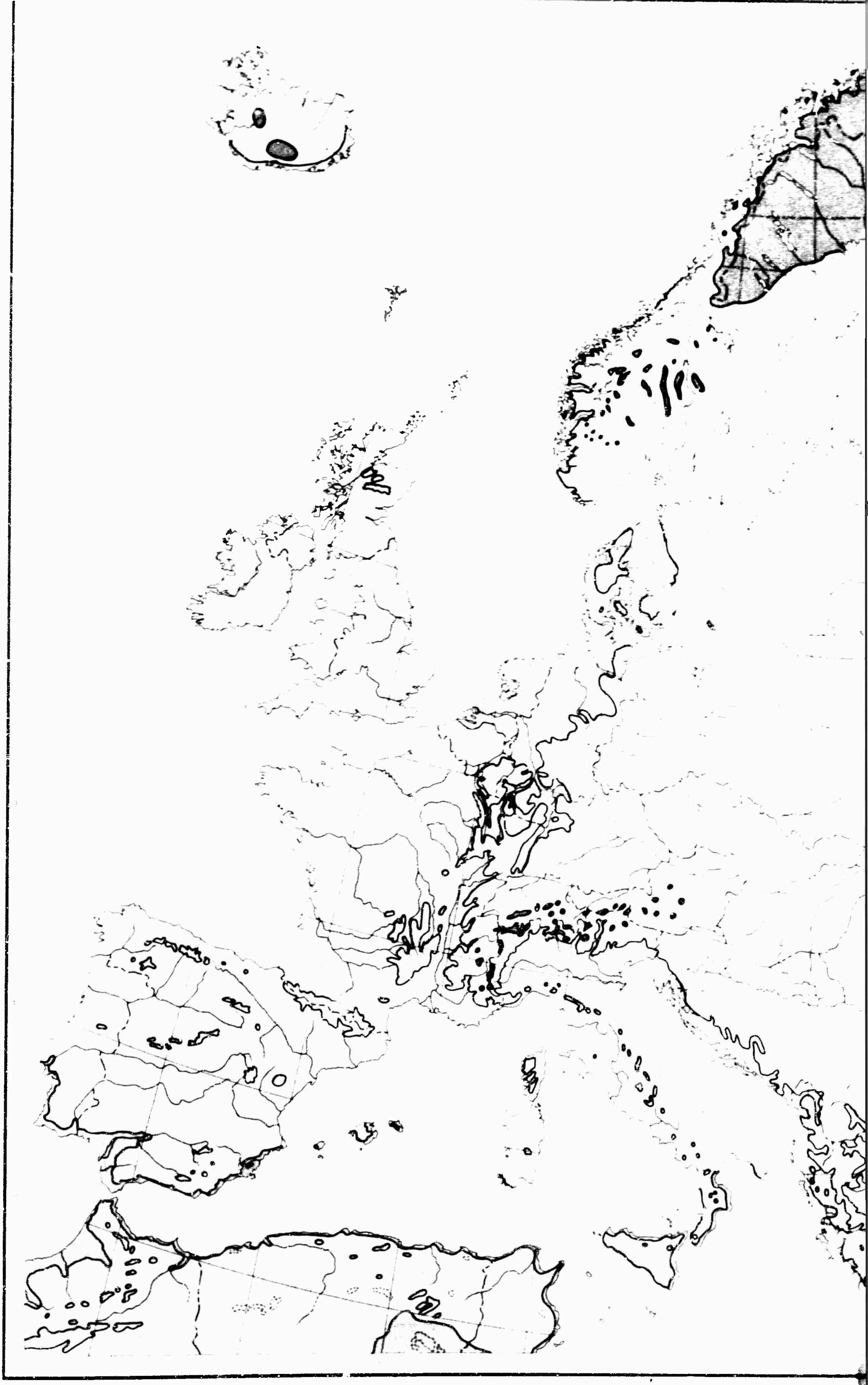
2

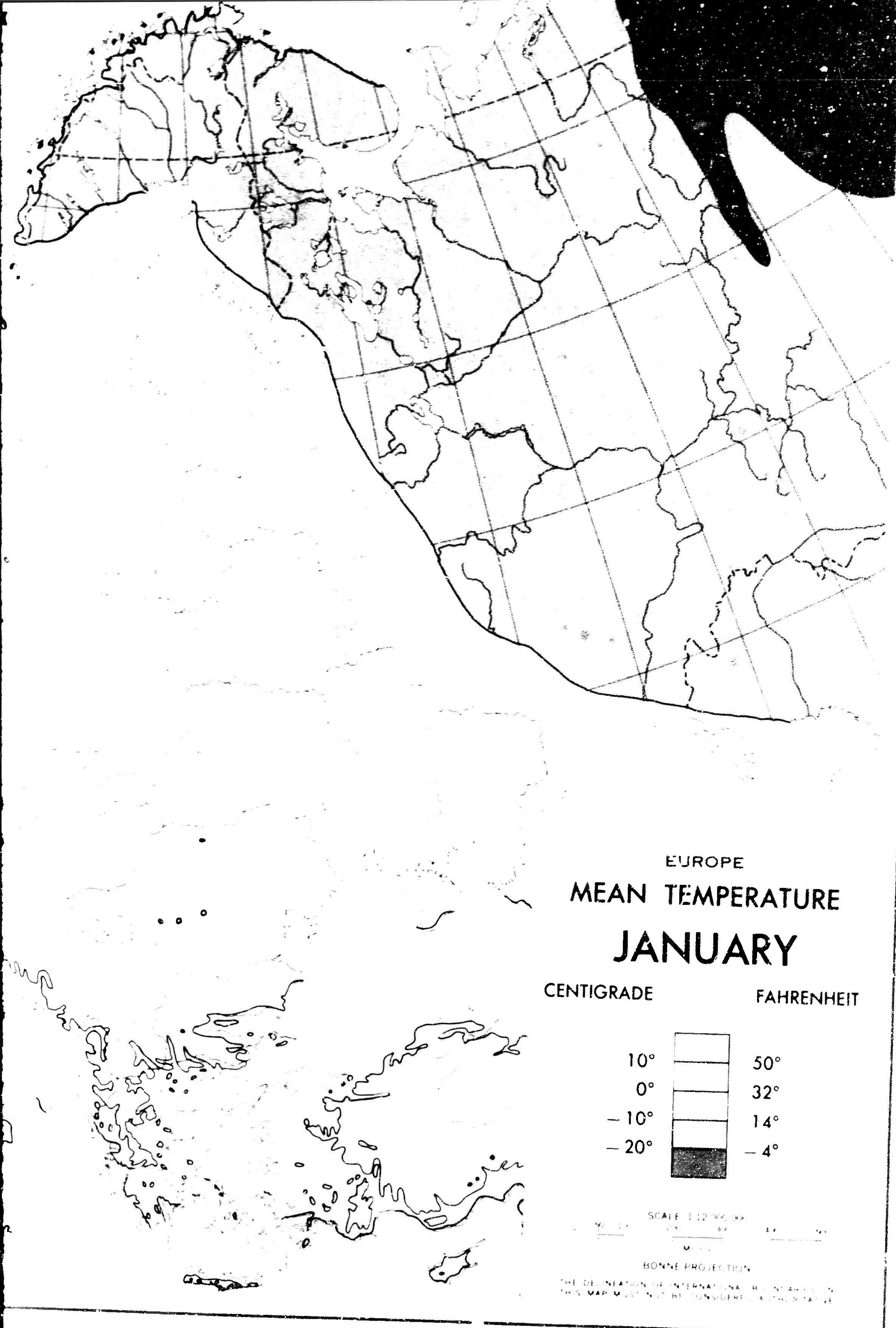


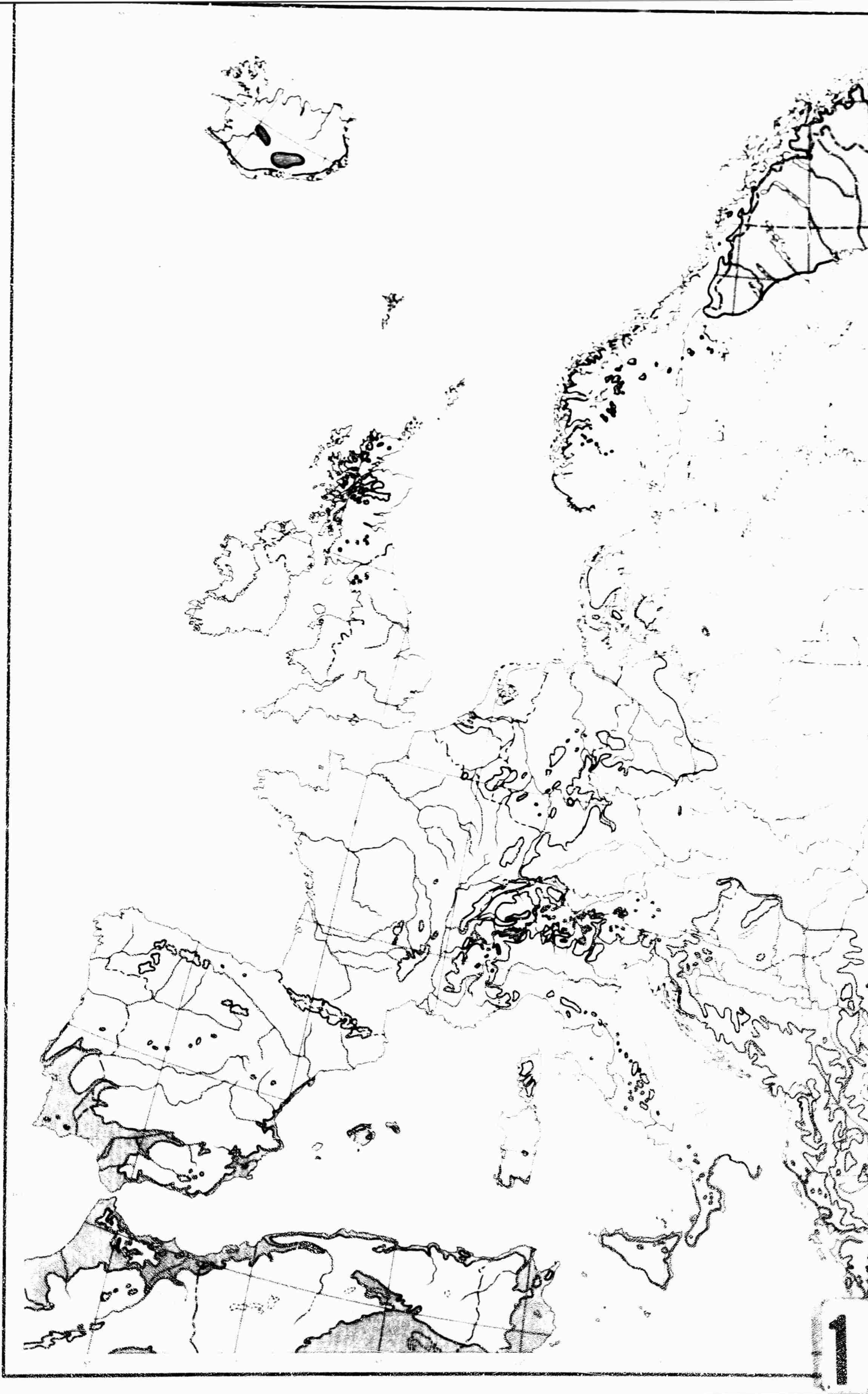
SOUTH AMERICA




SOUTH AMERICA
MEAN TEMPERATURE
DECEMBER
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:18 000 000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE




EUROPE
MEAN TEMPERATURE
JANUARY
CENTIGRADE
FAHRENHEIT
10°
50°
0°
32°
– 10°
14°
– 20°
– 4°
BONNE PROJECTION



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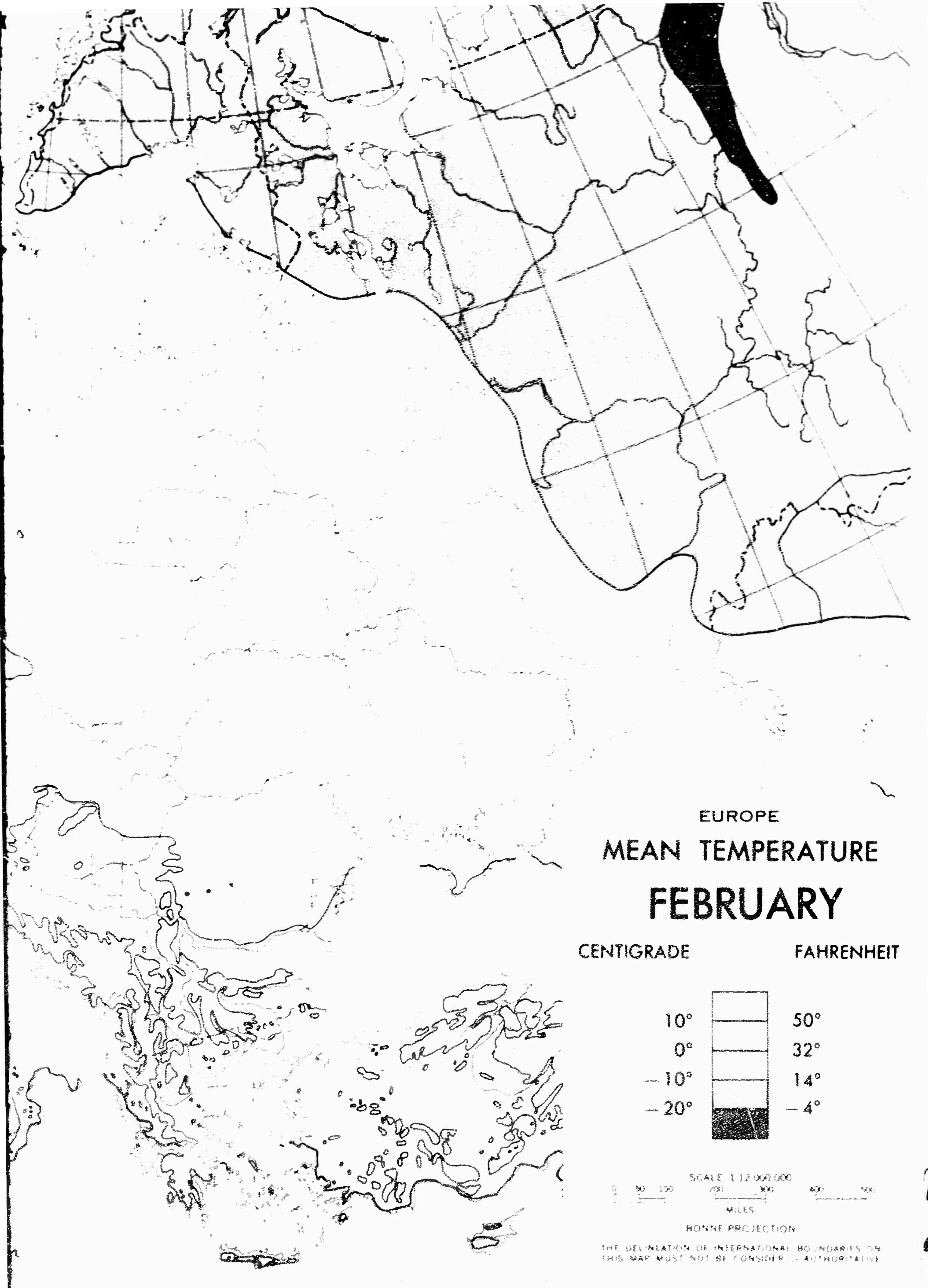
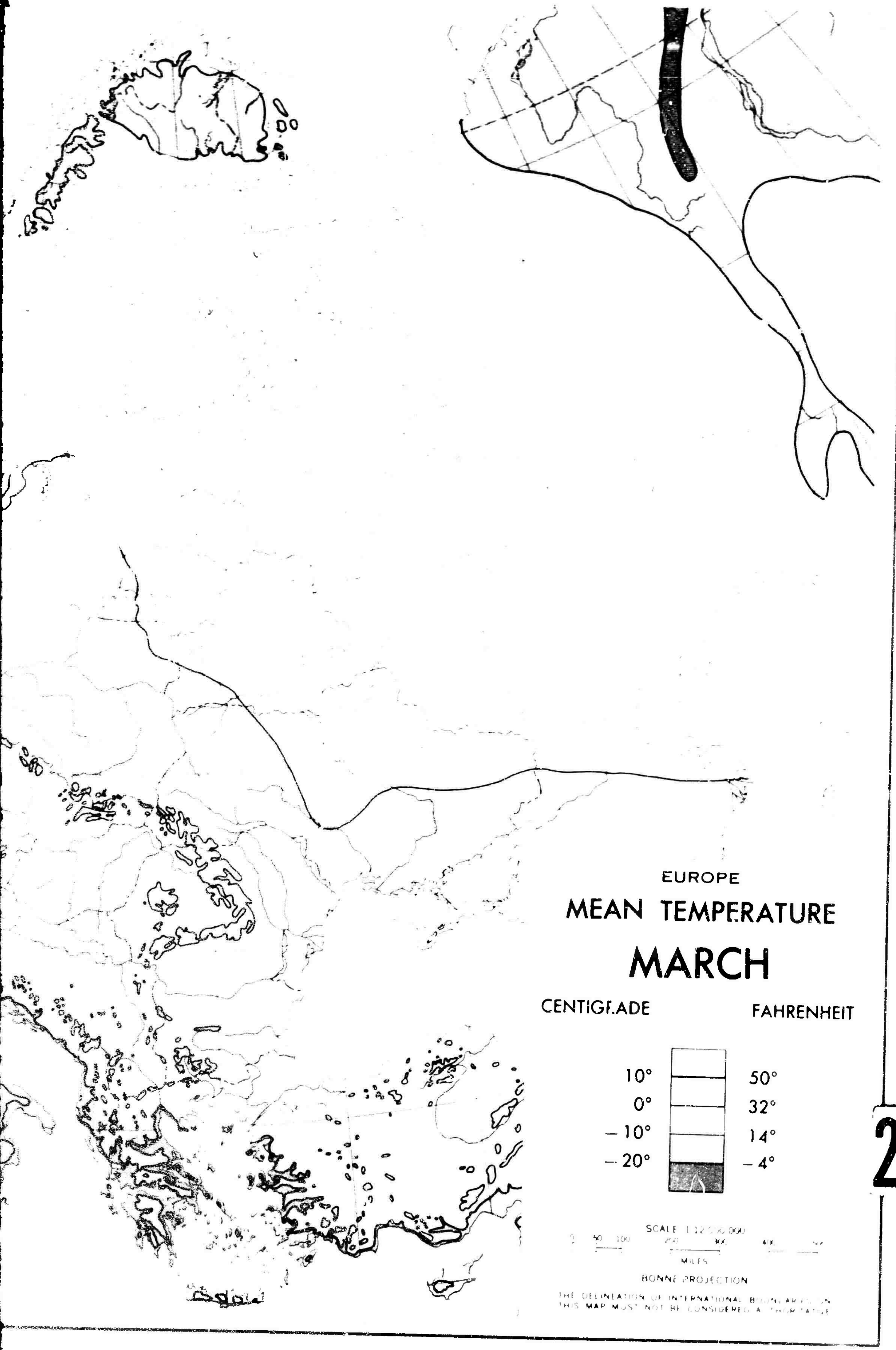

EUROPE
MEAN TEMPERATURE
FEBRUARY
CENTIGRADE
FAHRENHEIT
10°
0°
– 10°
– 20°
50°
32°
14°
– 4°
MILES
BONNE PROJECTION

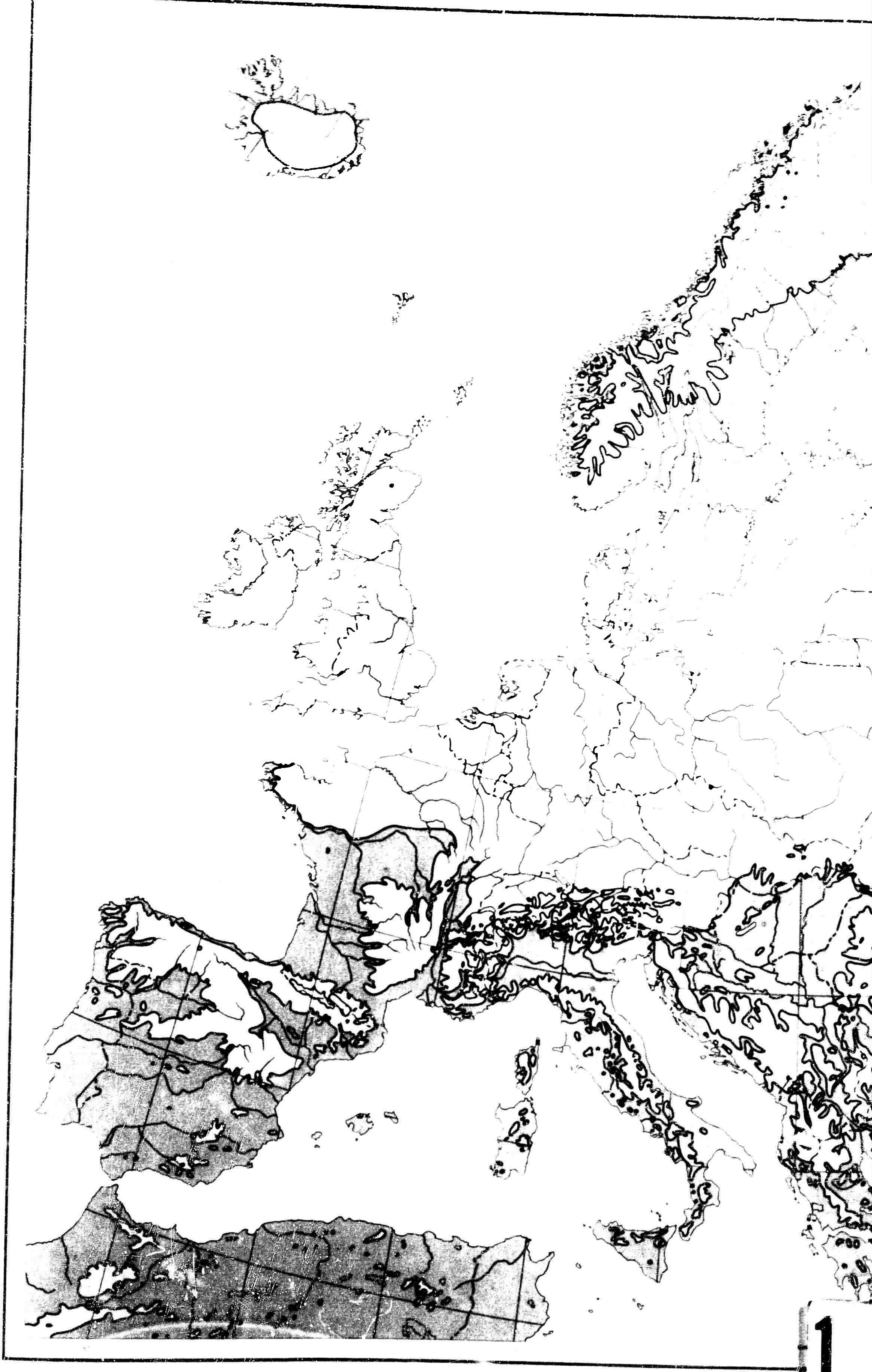
2

1



EUROPE
MEAN TEMPERATURE
MARCH
CENTIGRADE
FAHRENHEIT
10°
50°
0°
32°
– 10°
14°
– 20°
– 4°
SCALE
MILES
BONNE PROJECTION

2



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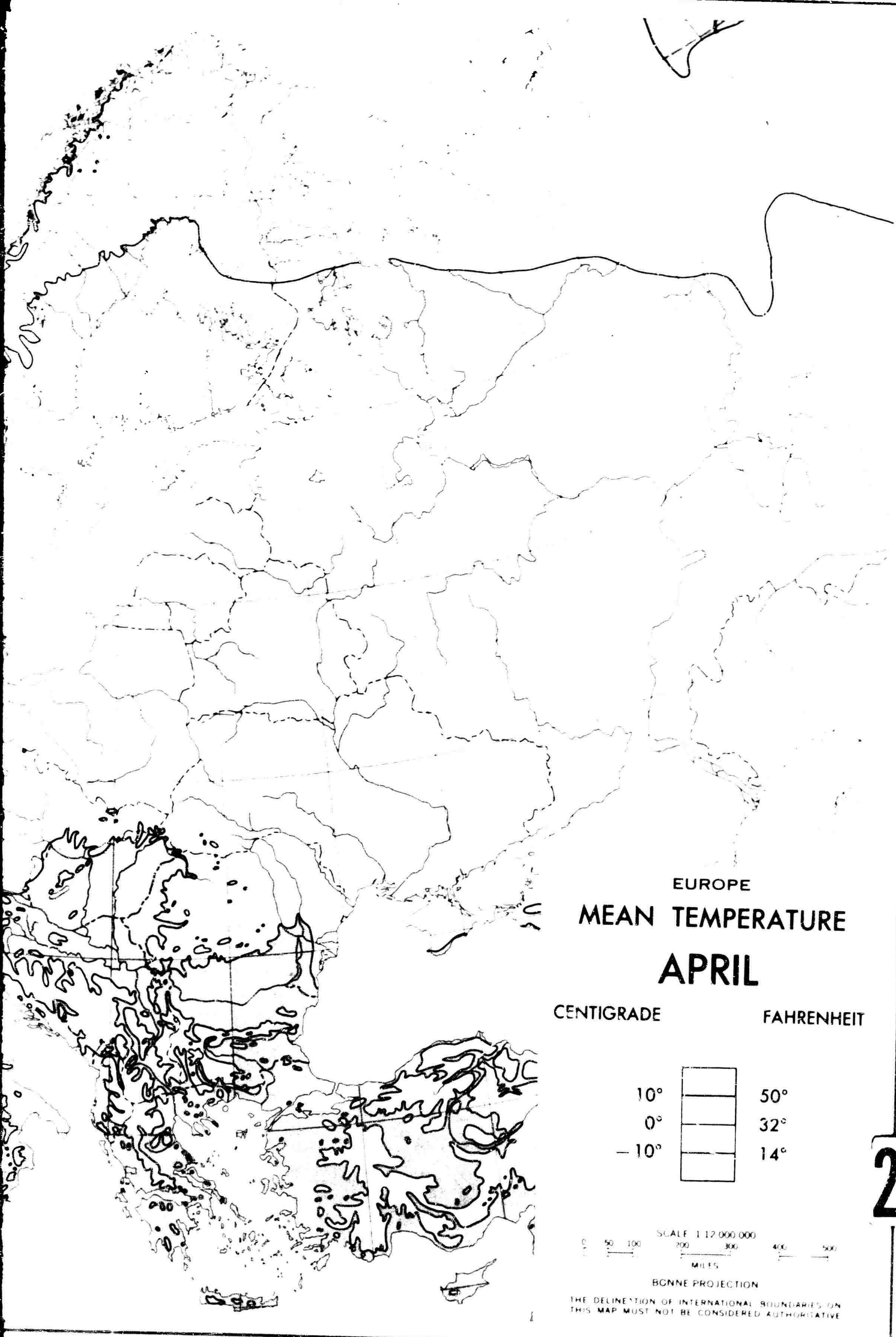
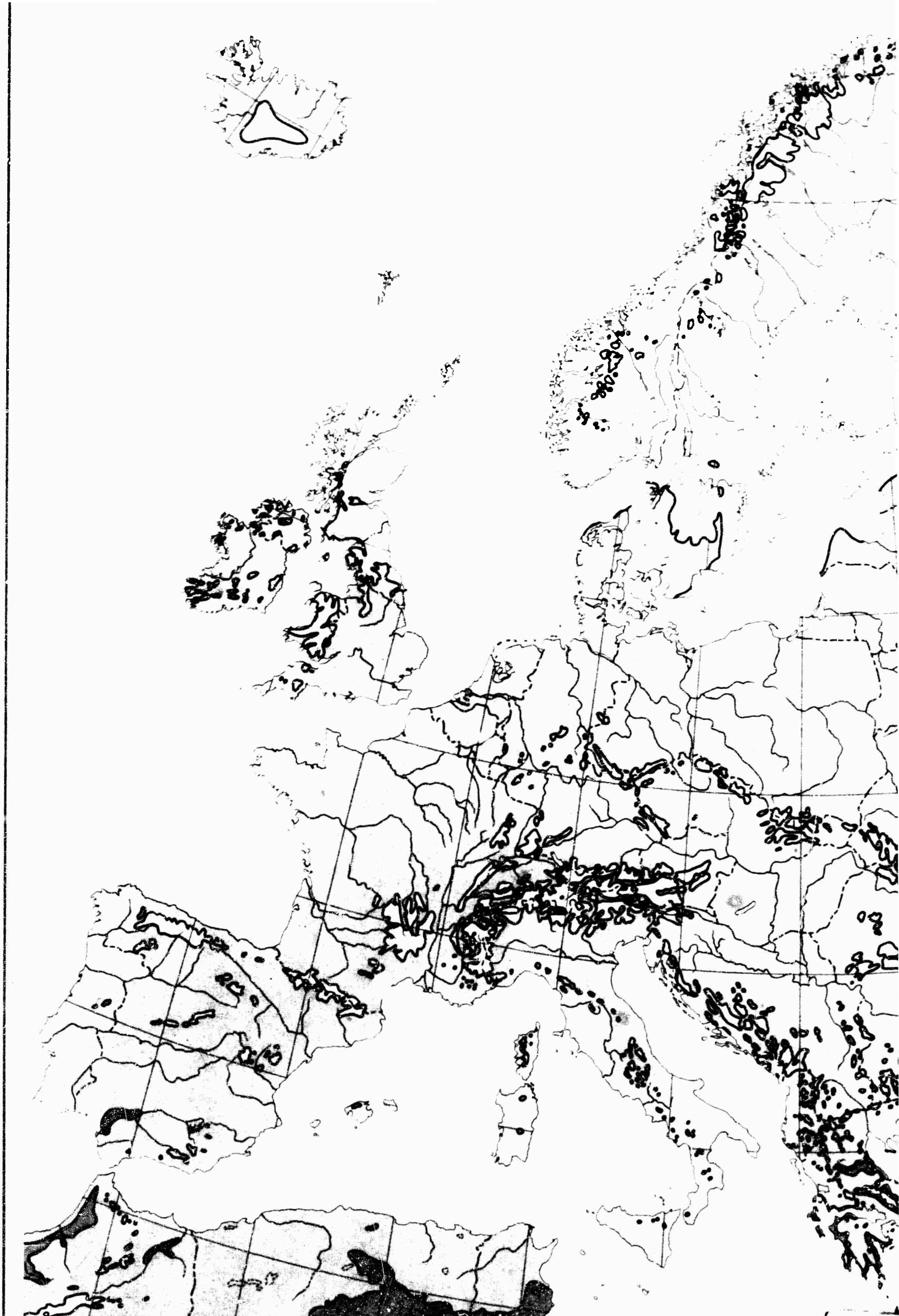

EUROPE
MEAN TEMPERATURE
APRIL
CENTIGRADE
FAHRENHEIT
10°
0°
−10°
50°
32°
14°
SCALE 1:12,000,000
0 50 100 200 300 400 500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

2



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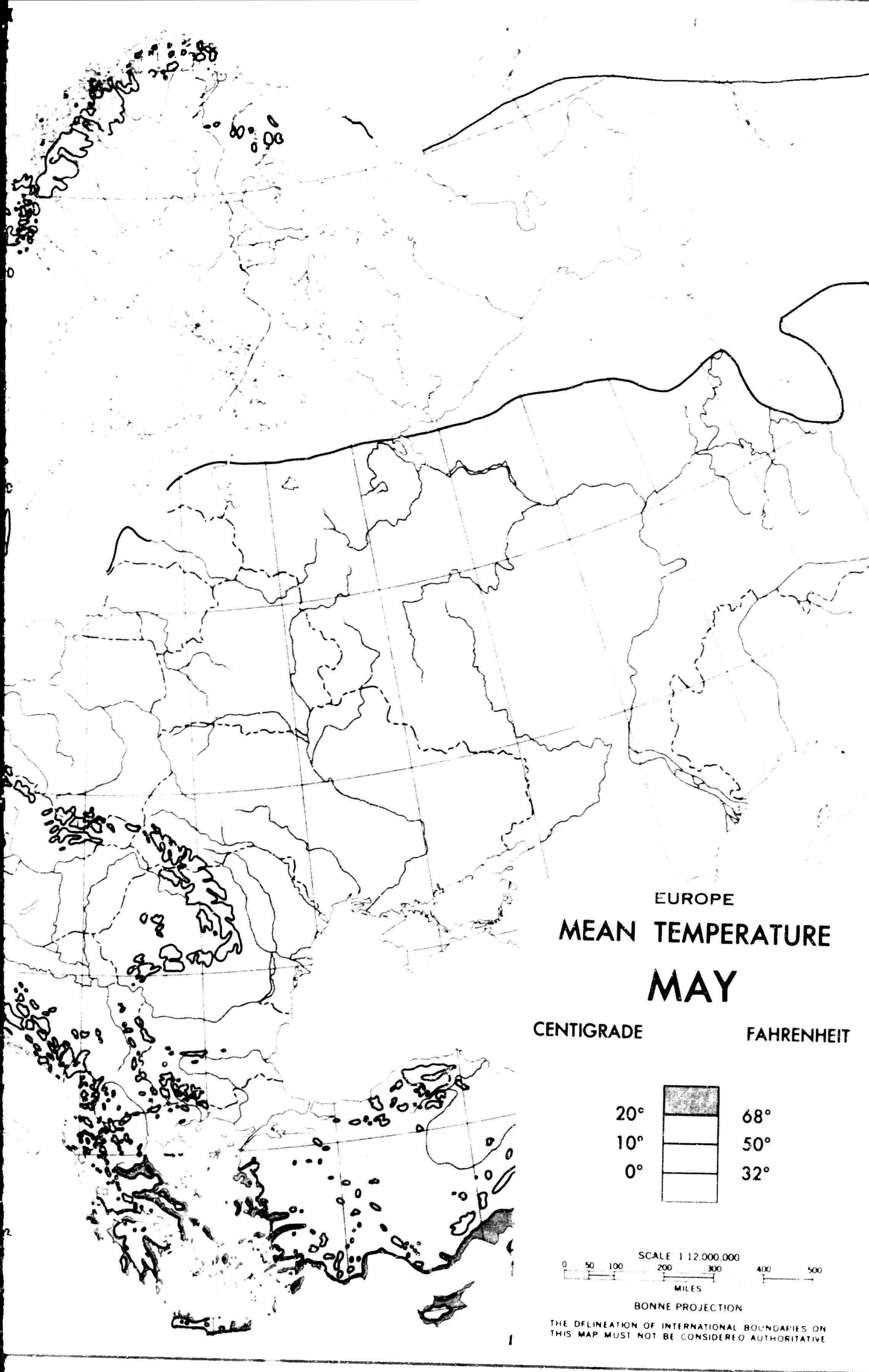
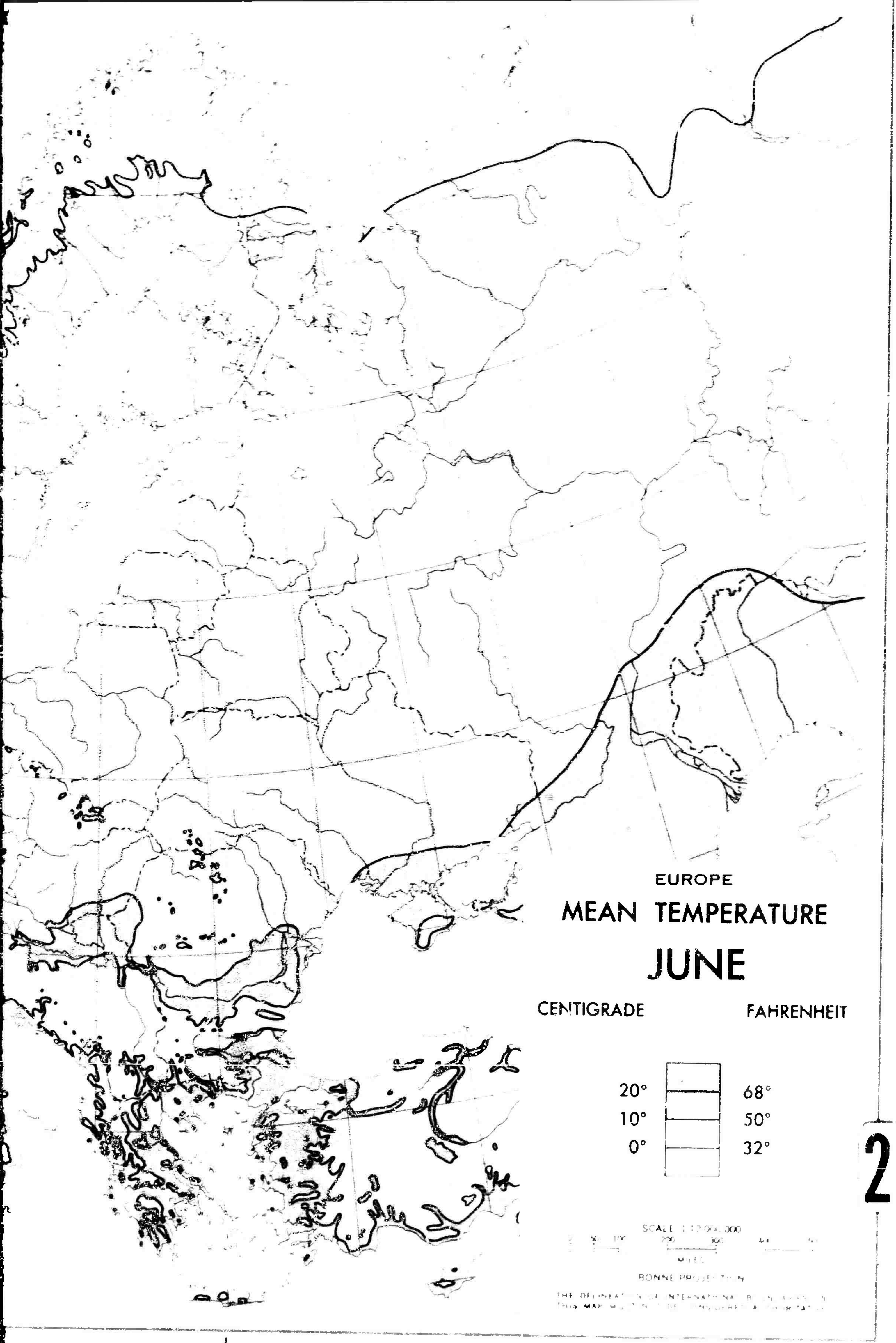
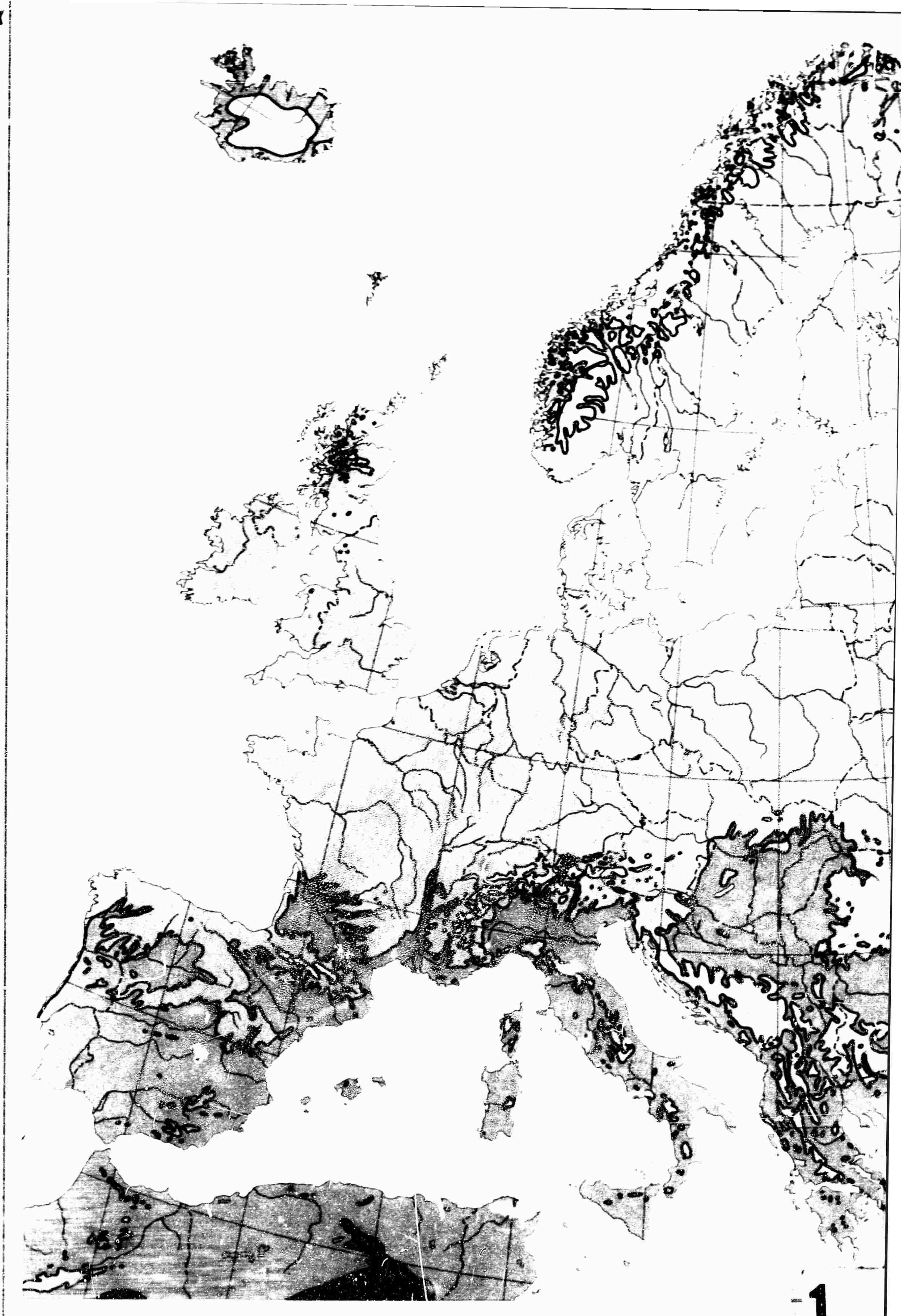

EUROPE
MEAN TEMPERATURE
MAY
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1 12.000.000
0
50
100
200
300
400
500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

2

1


EUROPE
MEAN TEMPERATURE
JUNE
CENTIGRADE
FAHRENHEIT
20°
10°
0°
68°
50°
32°

2



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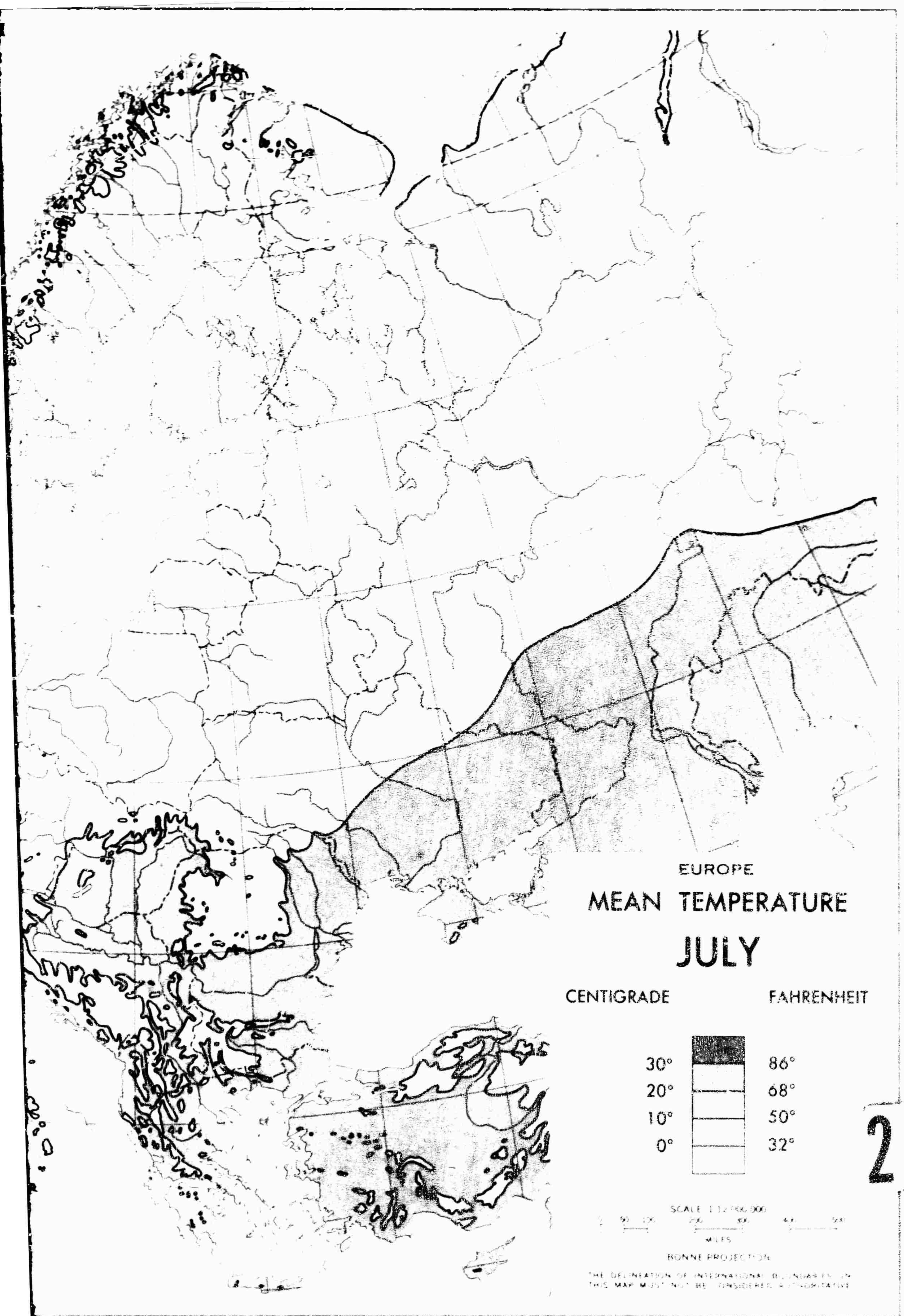
EUROPE
MEAN TEMPERATURE
JULY
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
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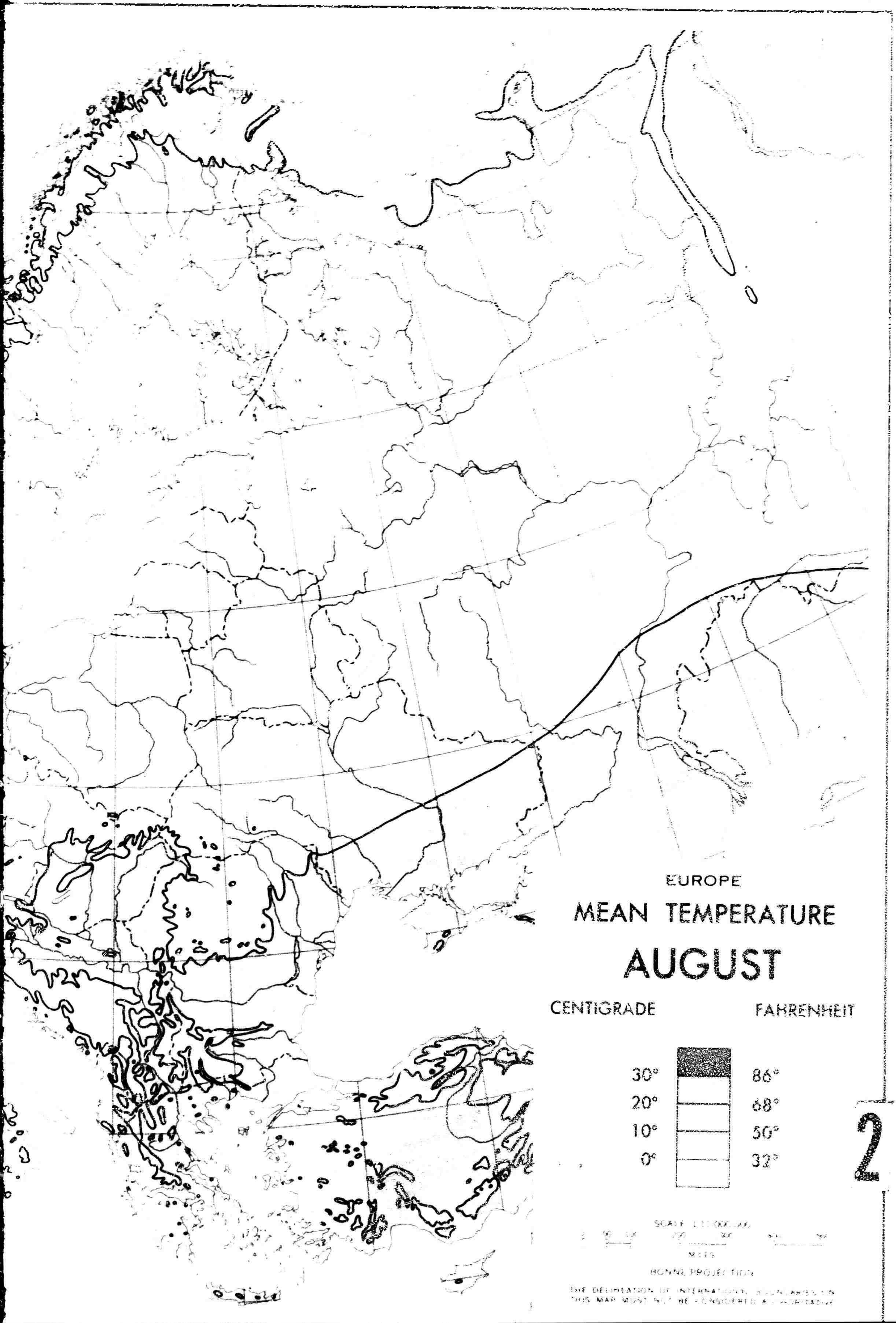
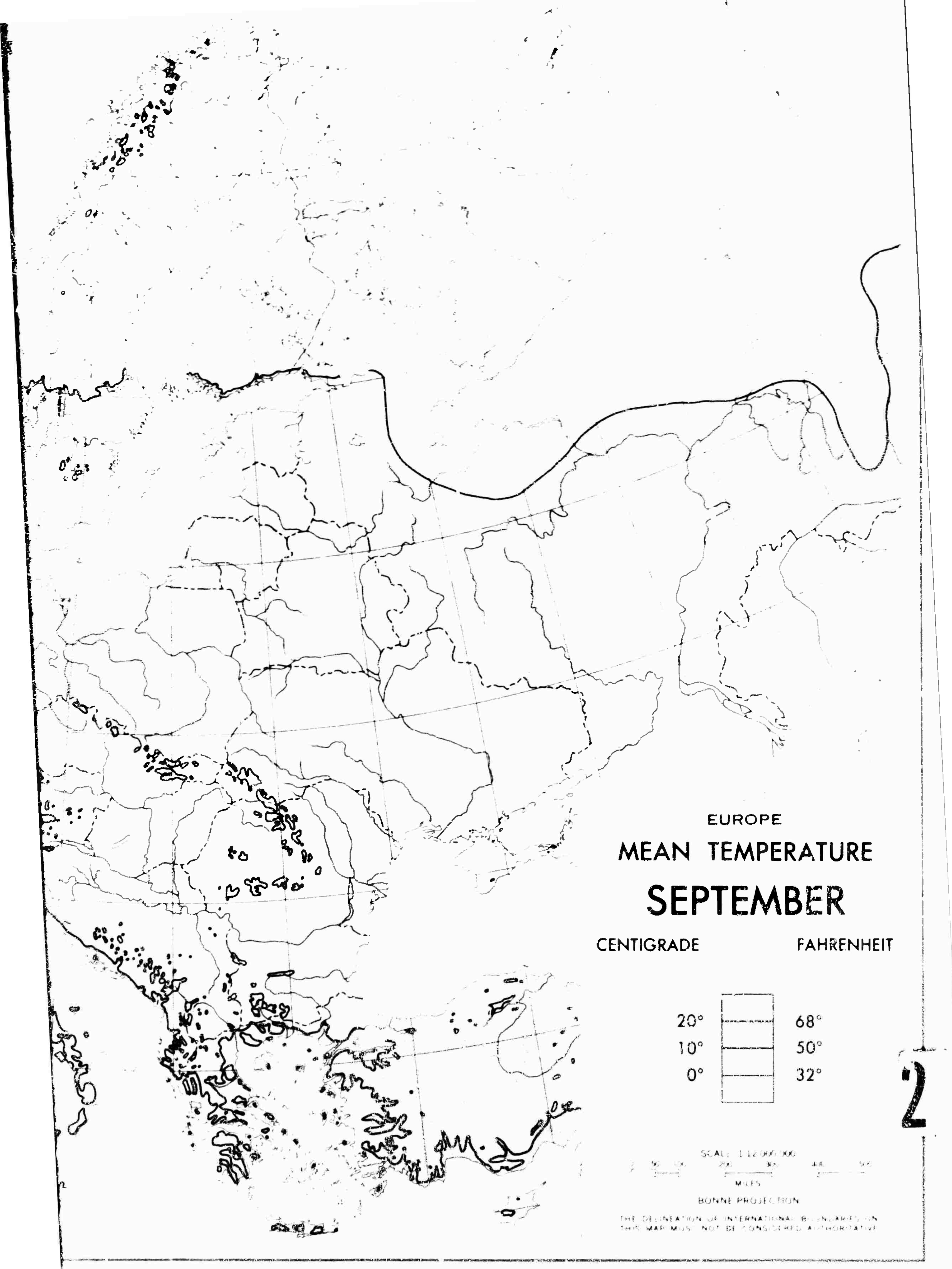
32°
2
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

1


EUROPE
MEAN TEMPERATURE
AUGUST
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
MILES
BONNE PROJECTION

1


EUROPE
MEAN TEMPERATURE
SEPTEMBER
CENTIGRADE
FAHRENHEIT
20°
68°
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50°
0°
32°
MILES
BONNE PROJECTION
2

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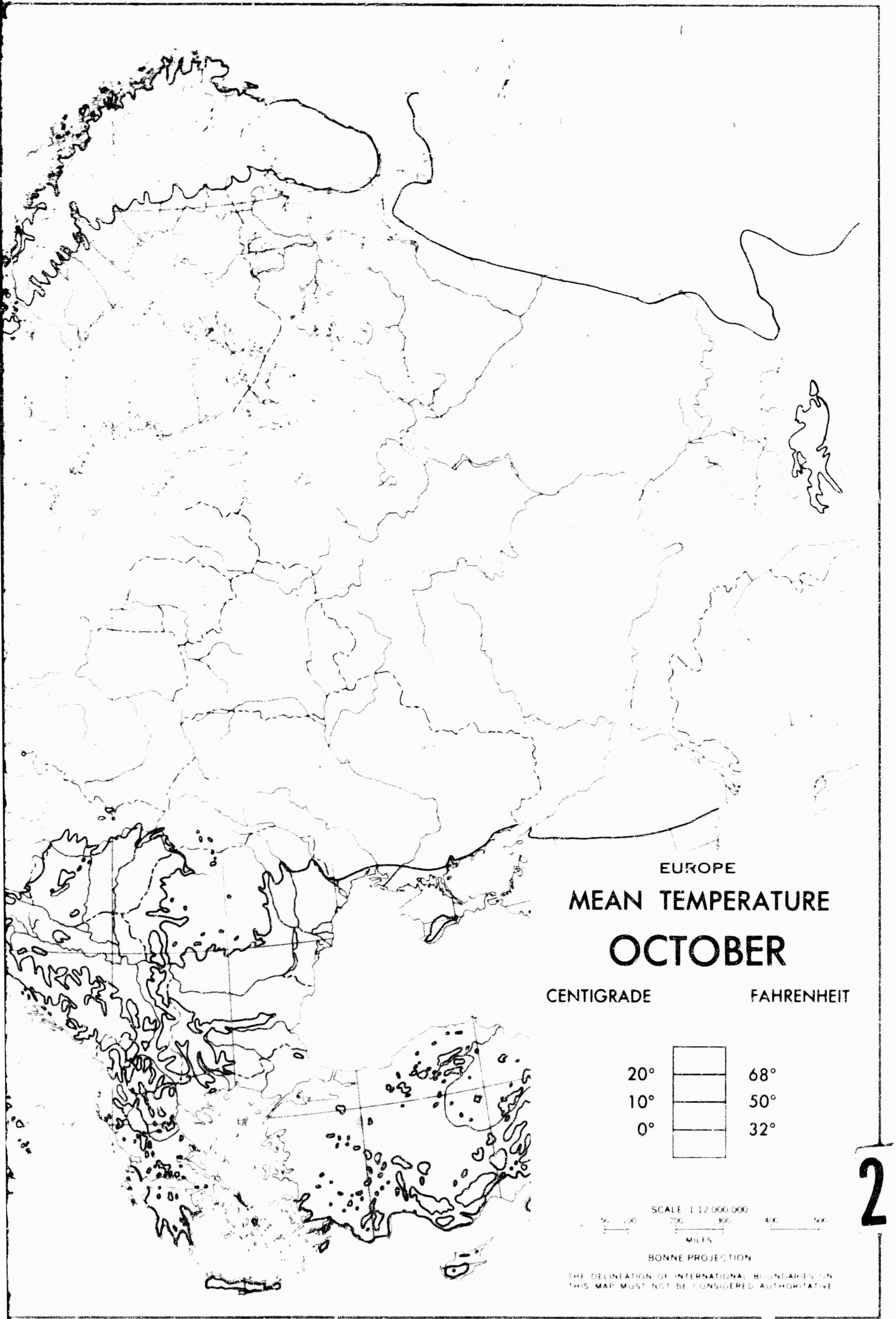
EUROPE
MEAN TEMPERATURE
OCTOBER
CENTIGRADE
FAHRENHEIT
20°
68°
10°
50°
0°
32°
SCALE 1:12,000,000
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MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE
2

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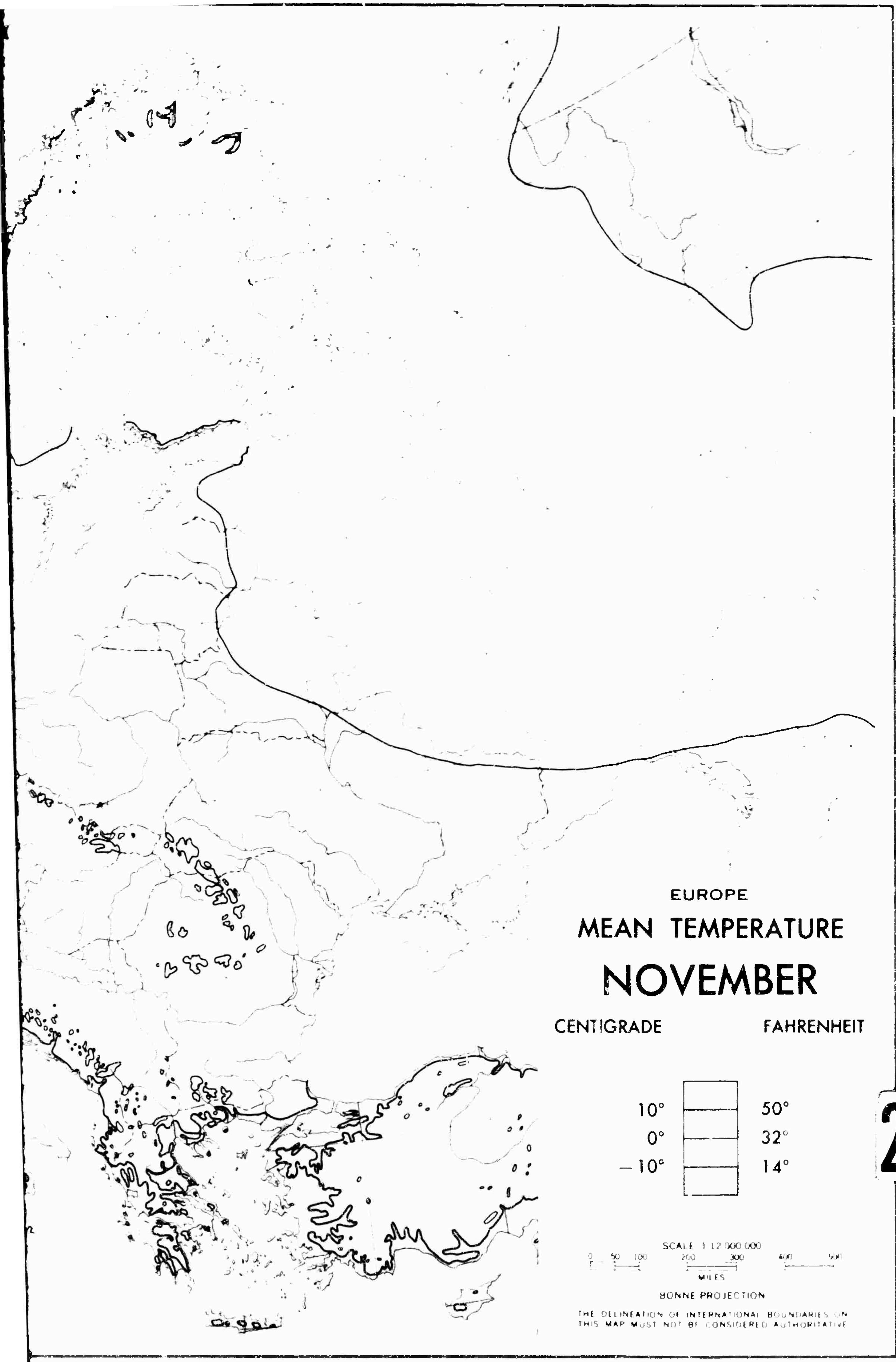

EUROPE
MEAN TEMPERATURE
NOVEMBER
CENTIGRADE
FAHRENHEIT
10°
50°
0°
32°
−10°
14°
SCALE 1:12 000 000
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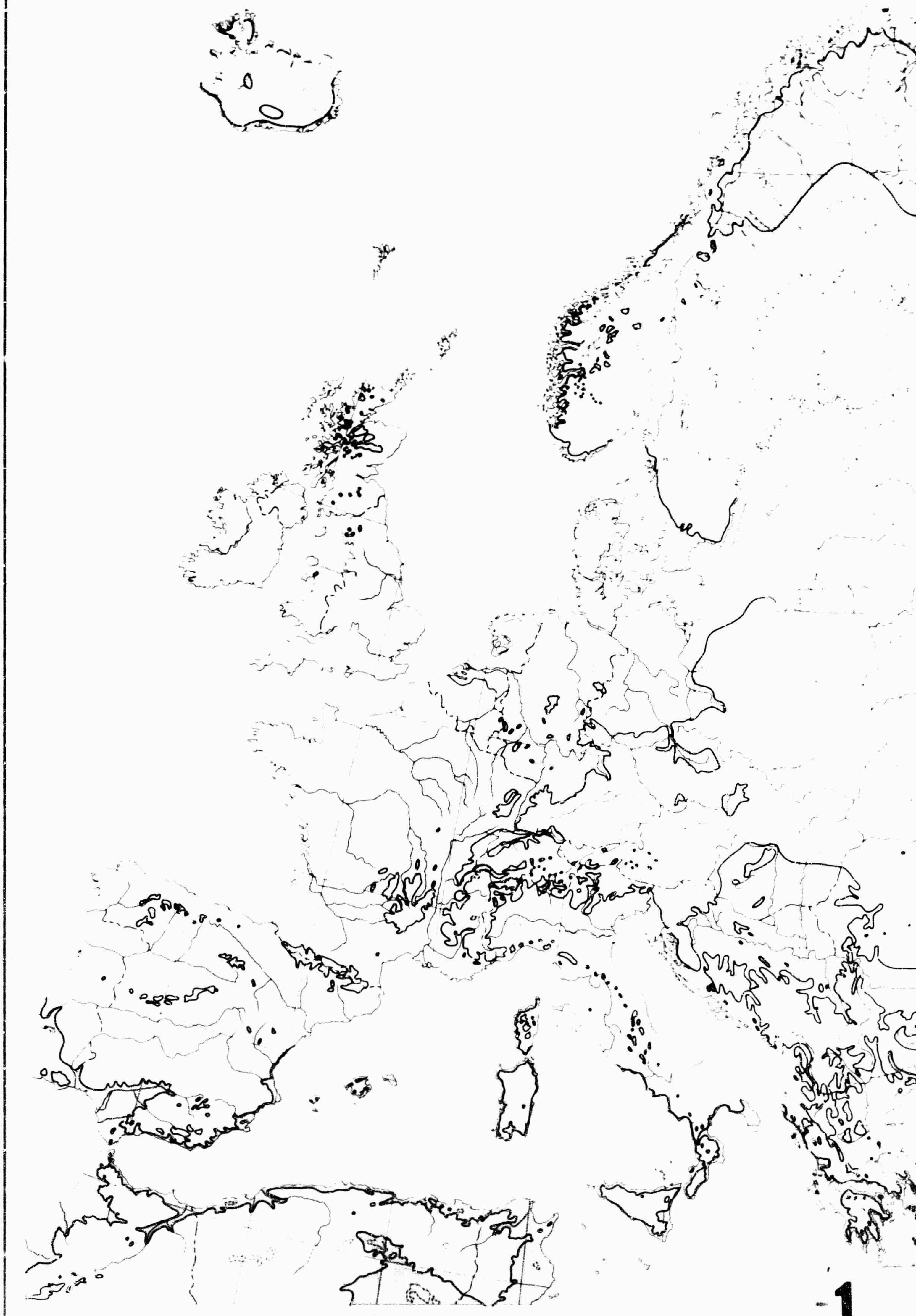
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

2



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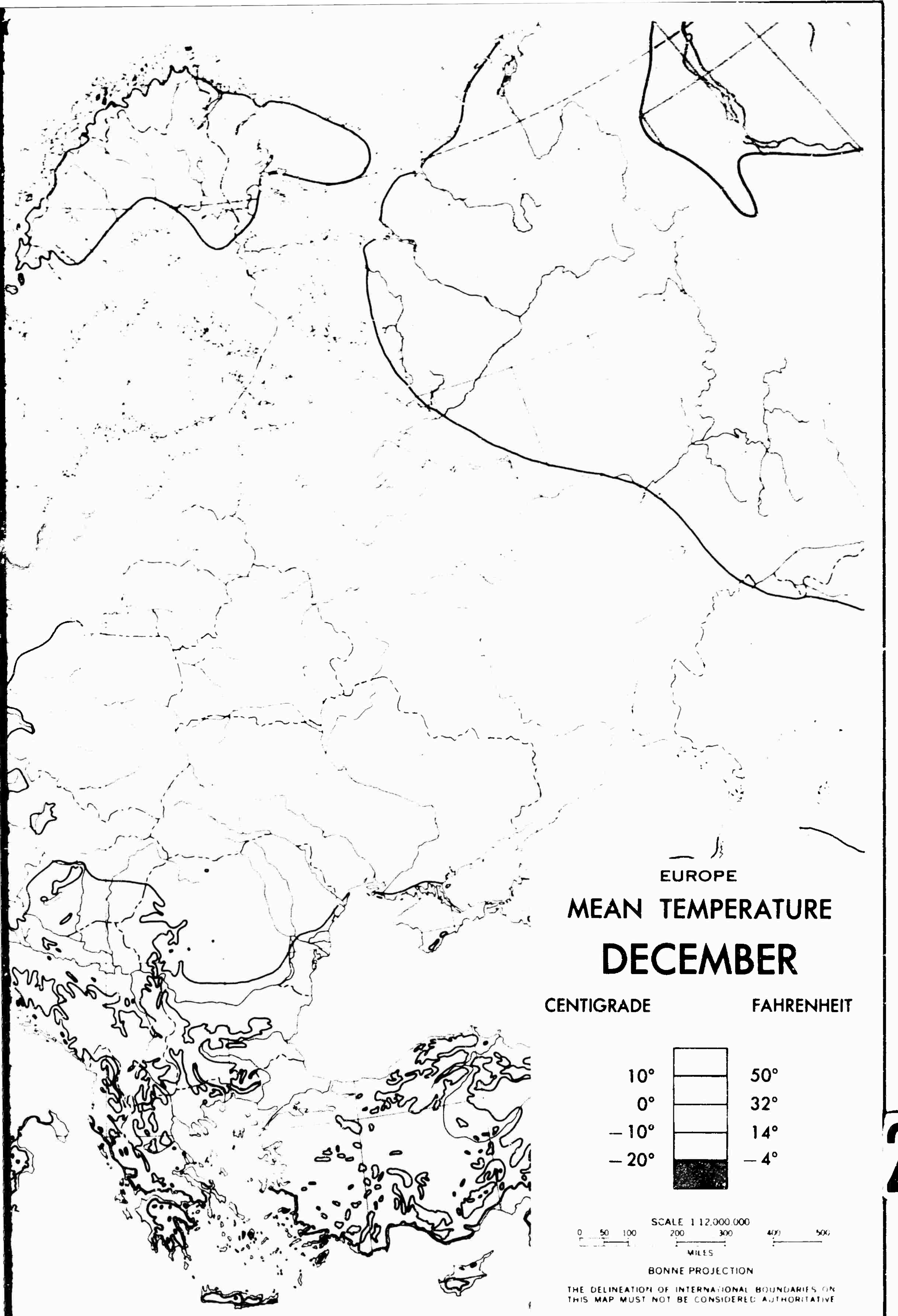
EUROPE
MEAN TEMPERATURE
DECEMBER
CENTIGRADE
FAHRENHEIT
10°
50°
0°
32°
– 10°
14°
– 20°
– 4°
SCALE 1:12,000,000
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MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

2

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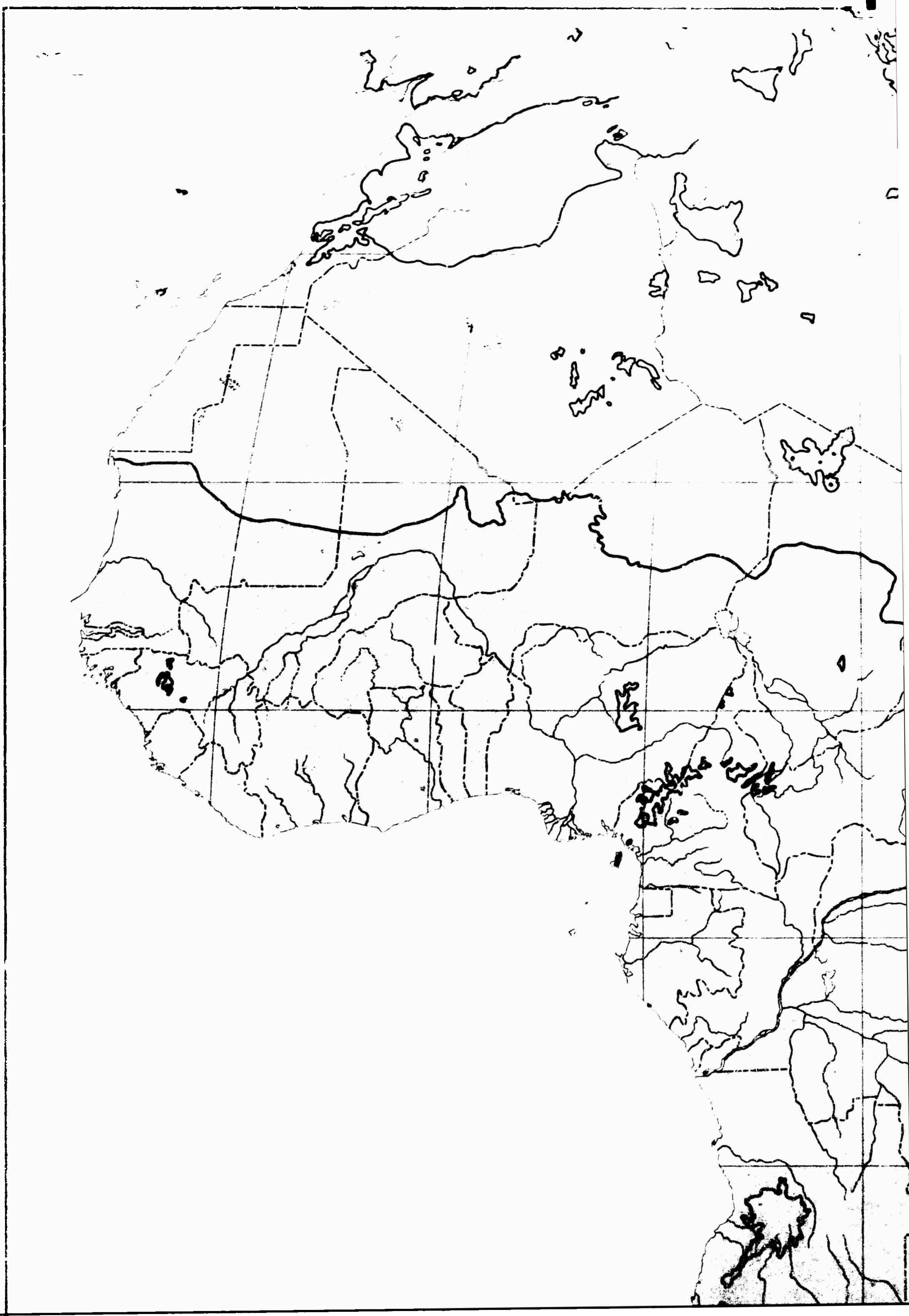

MAP 37

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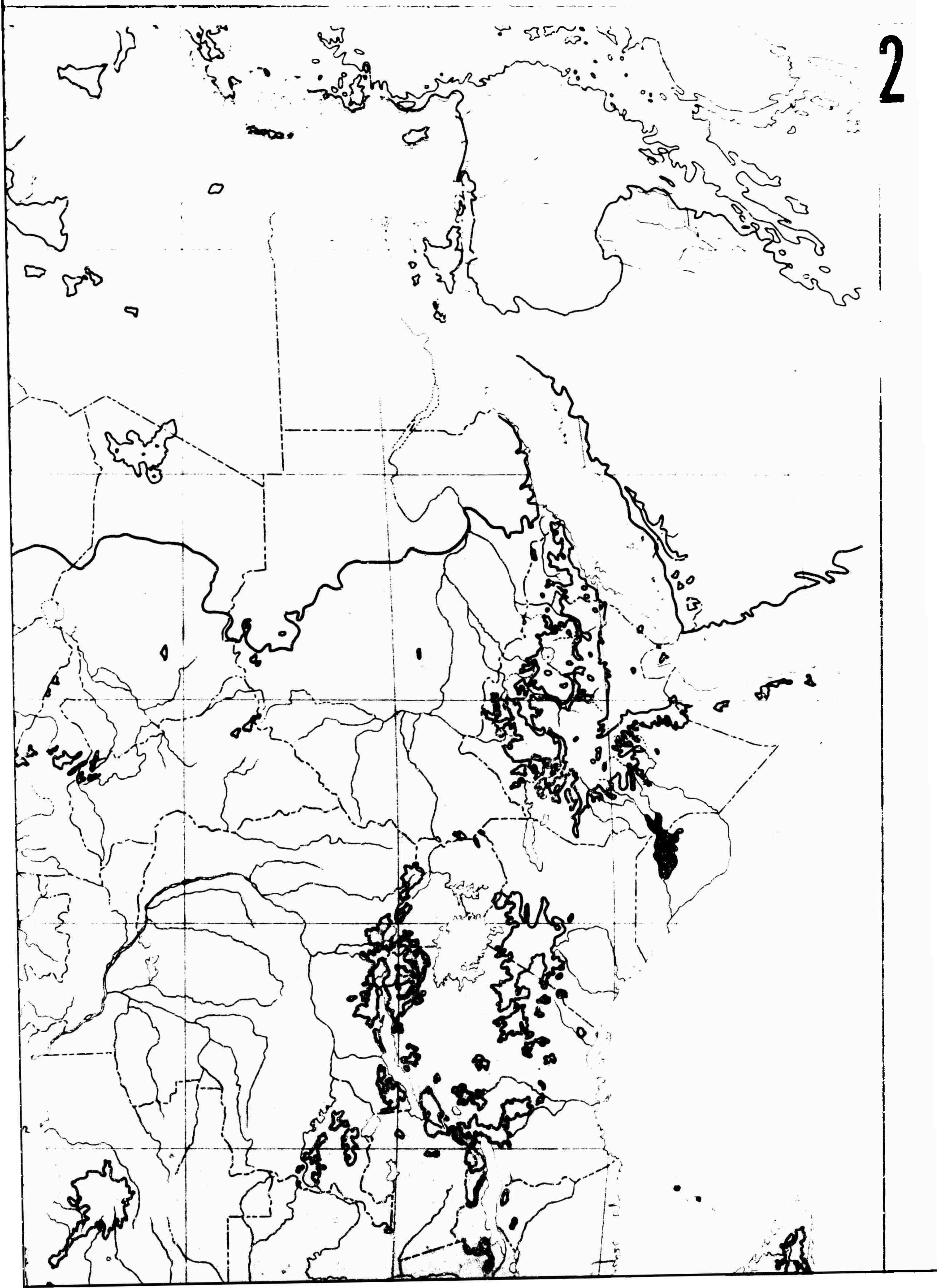
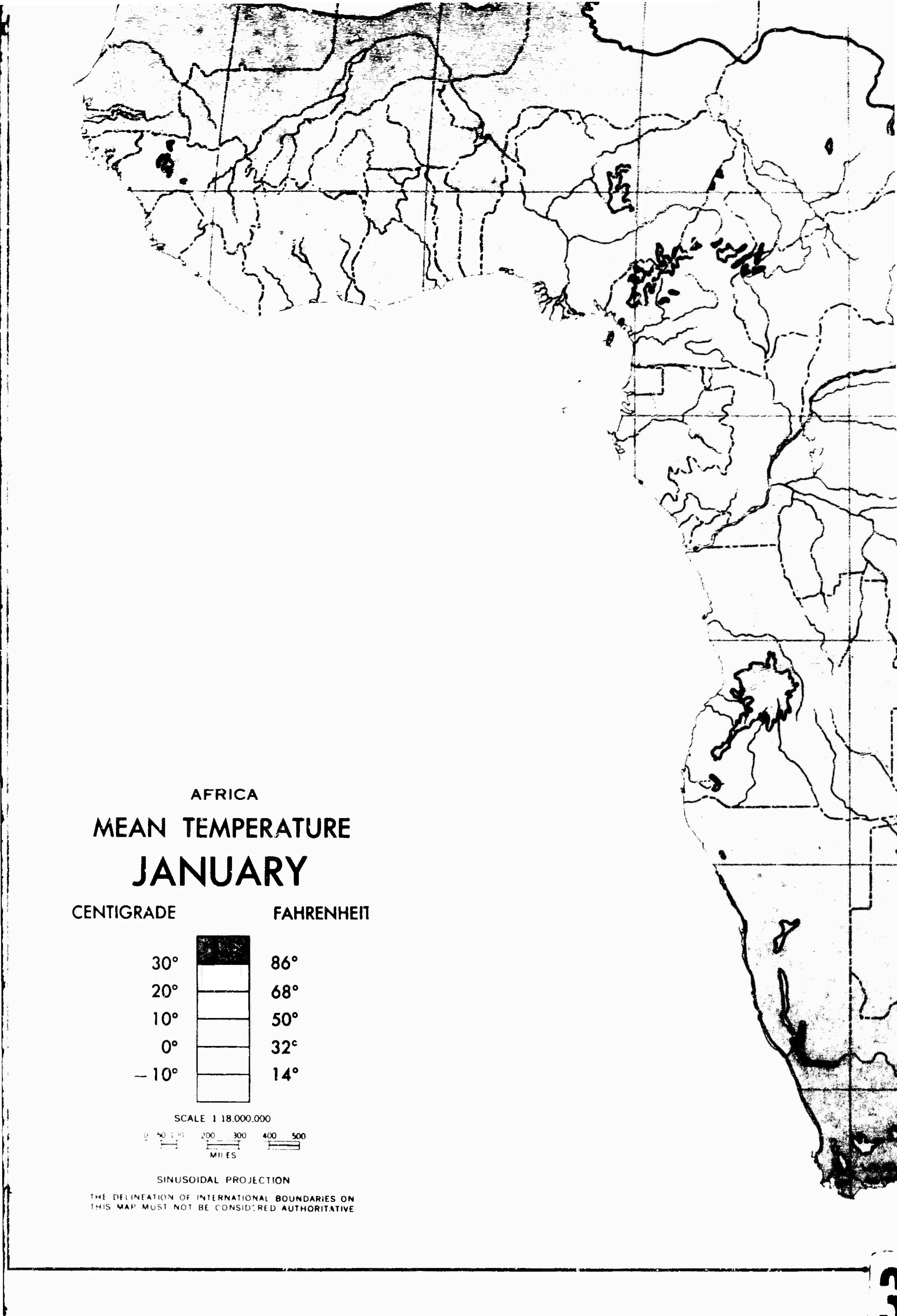
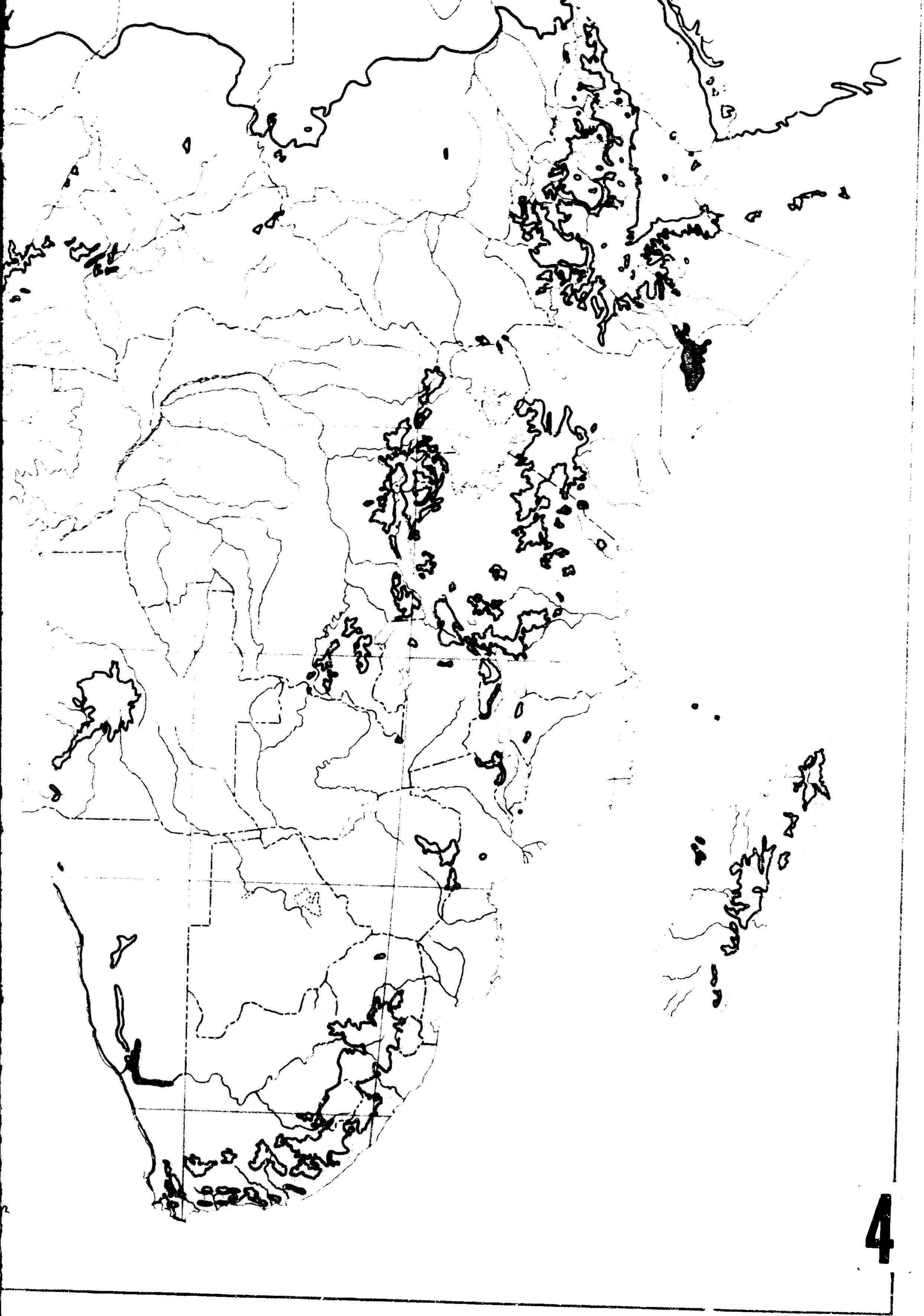



AFRICA
MEAN TEMPERATURE
JANUARY
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
–10°
14°
SCALE 1:18,000,000
200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE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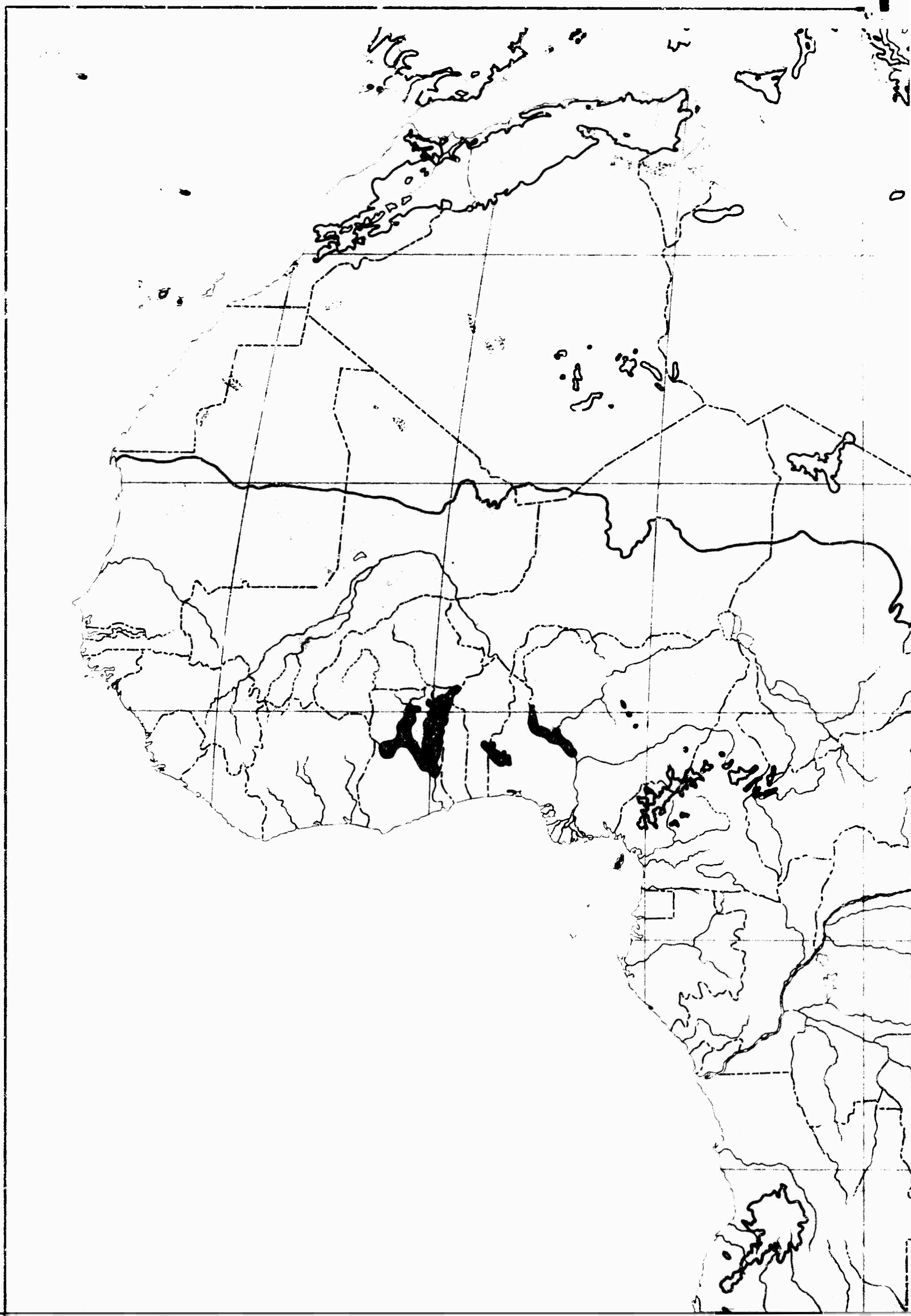

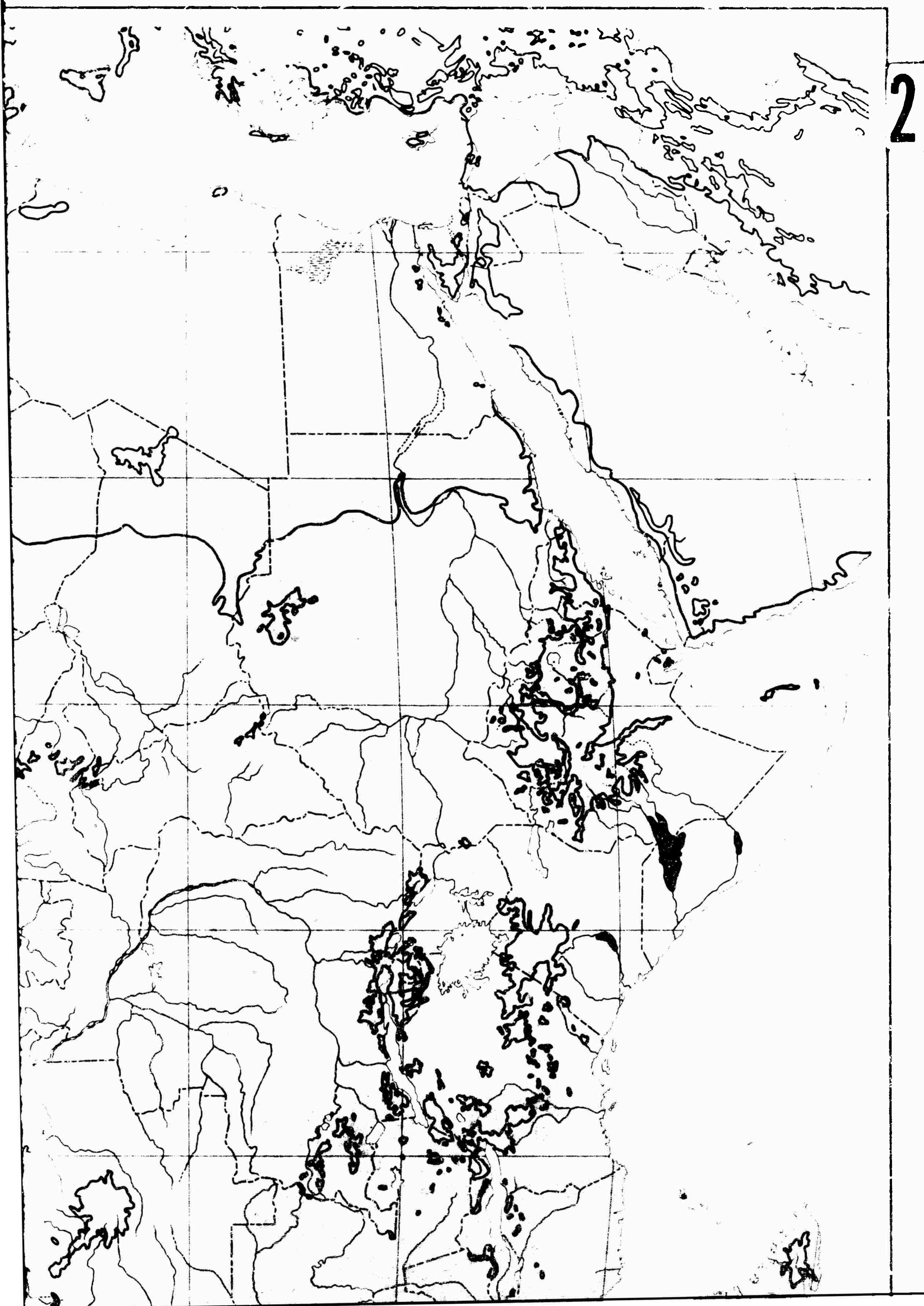
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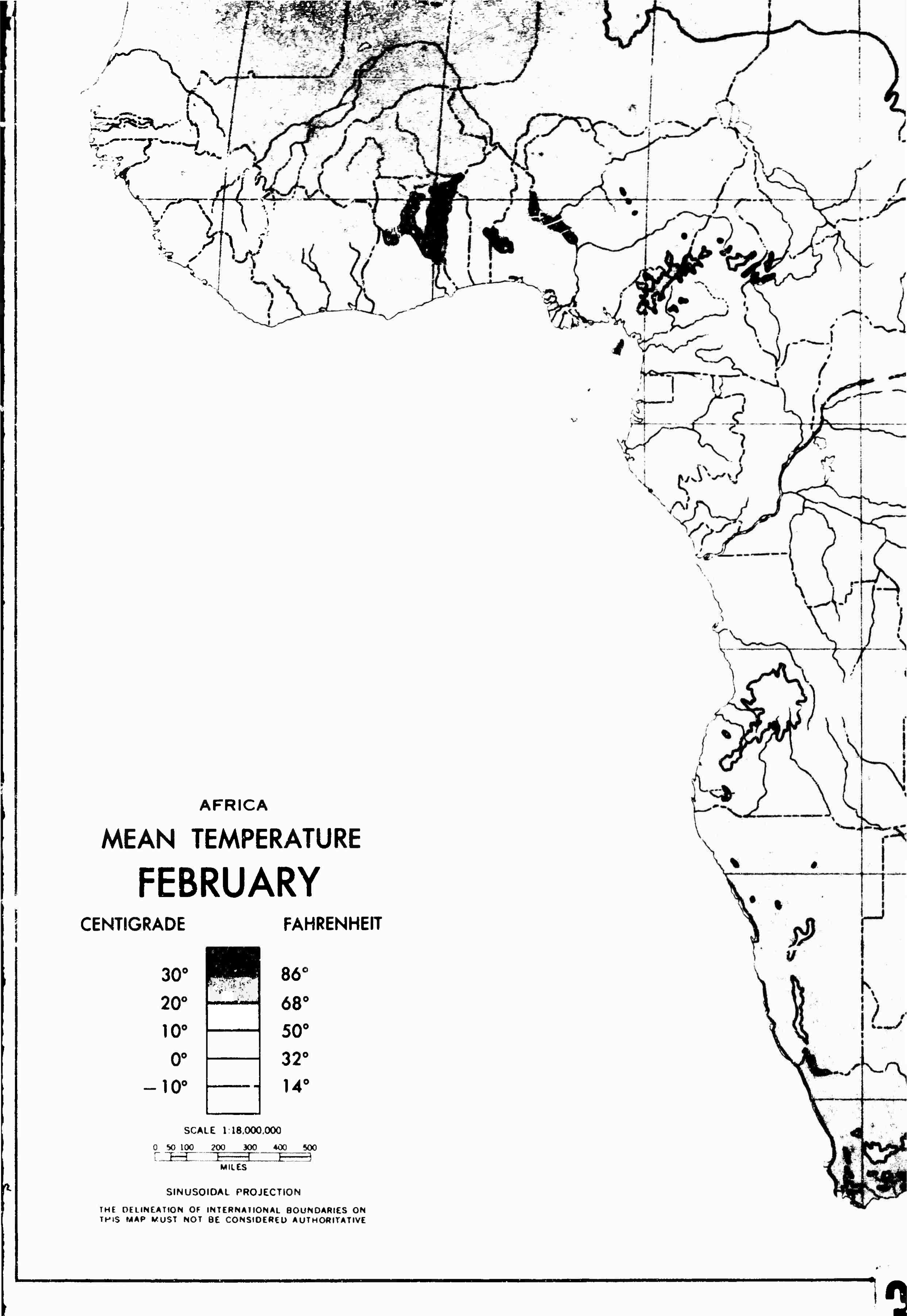
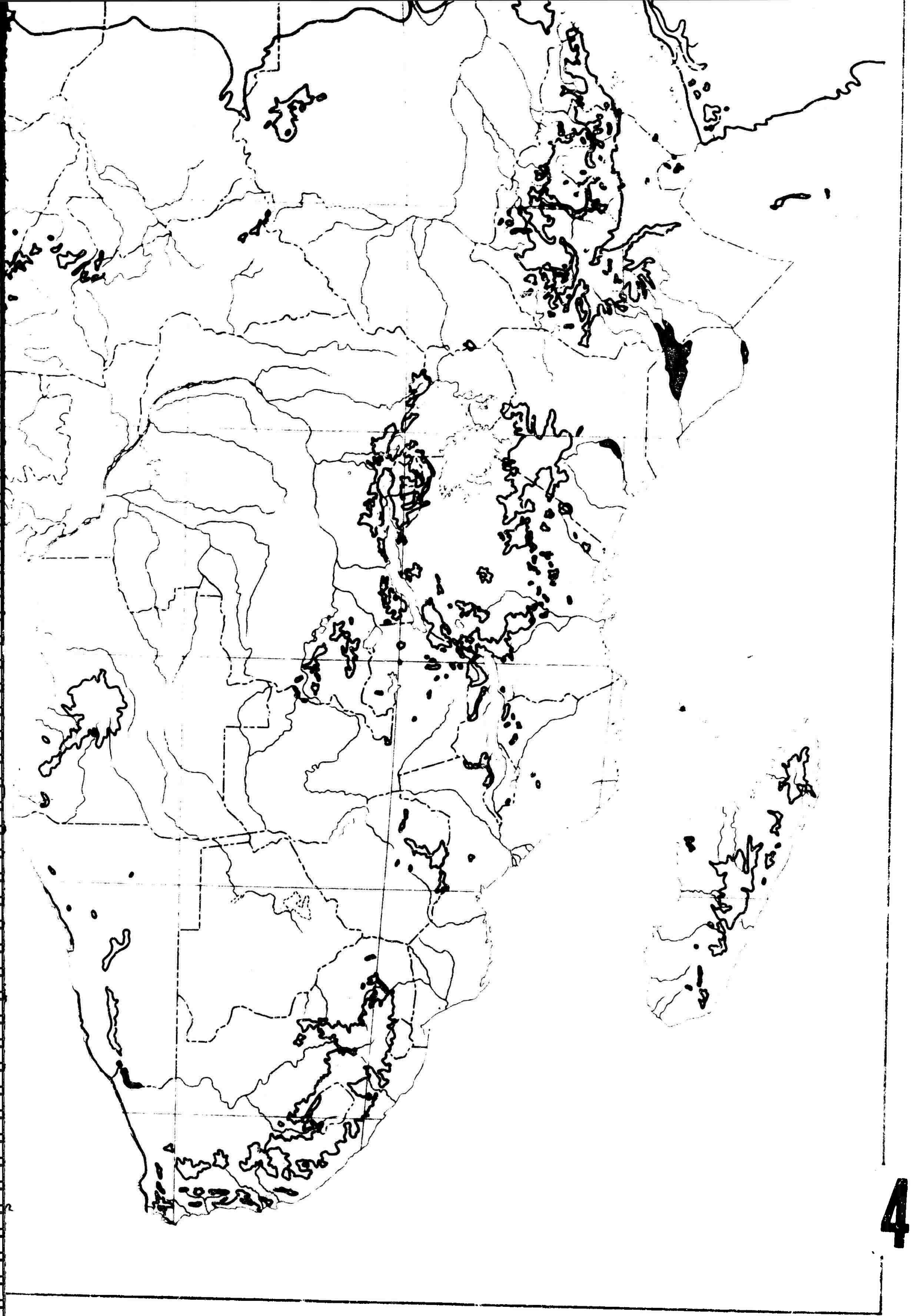


AFRICA
MEAN TEMPERATURE
FEBRUARY
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
−10°
14°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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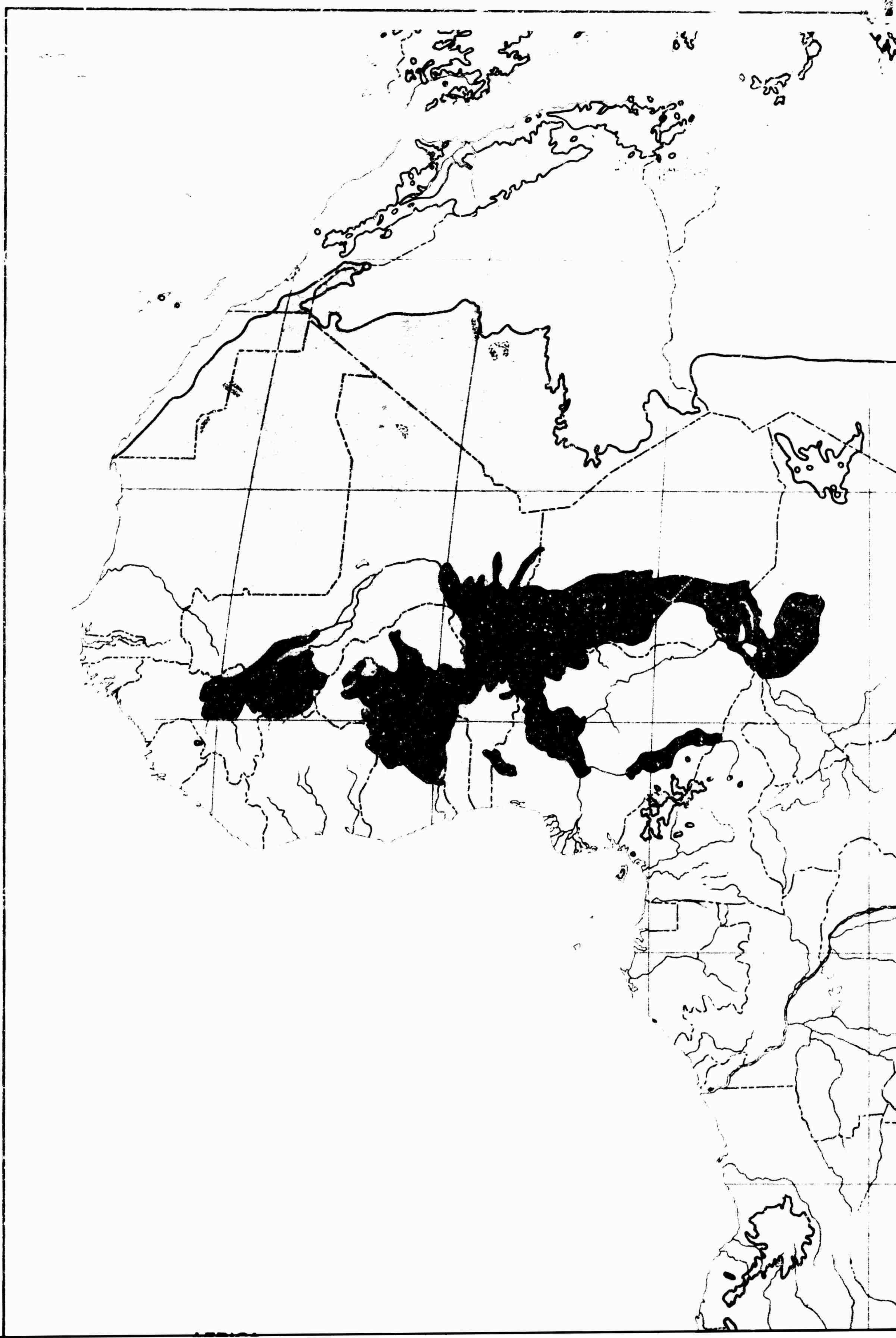

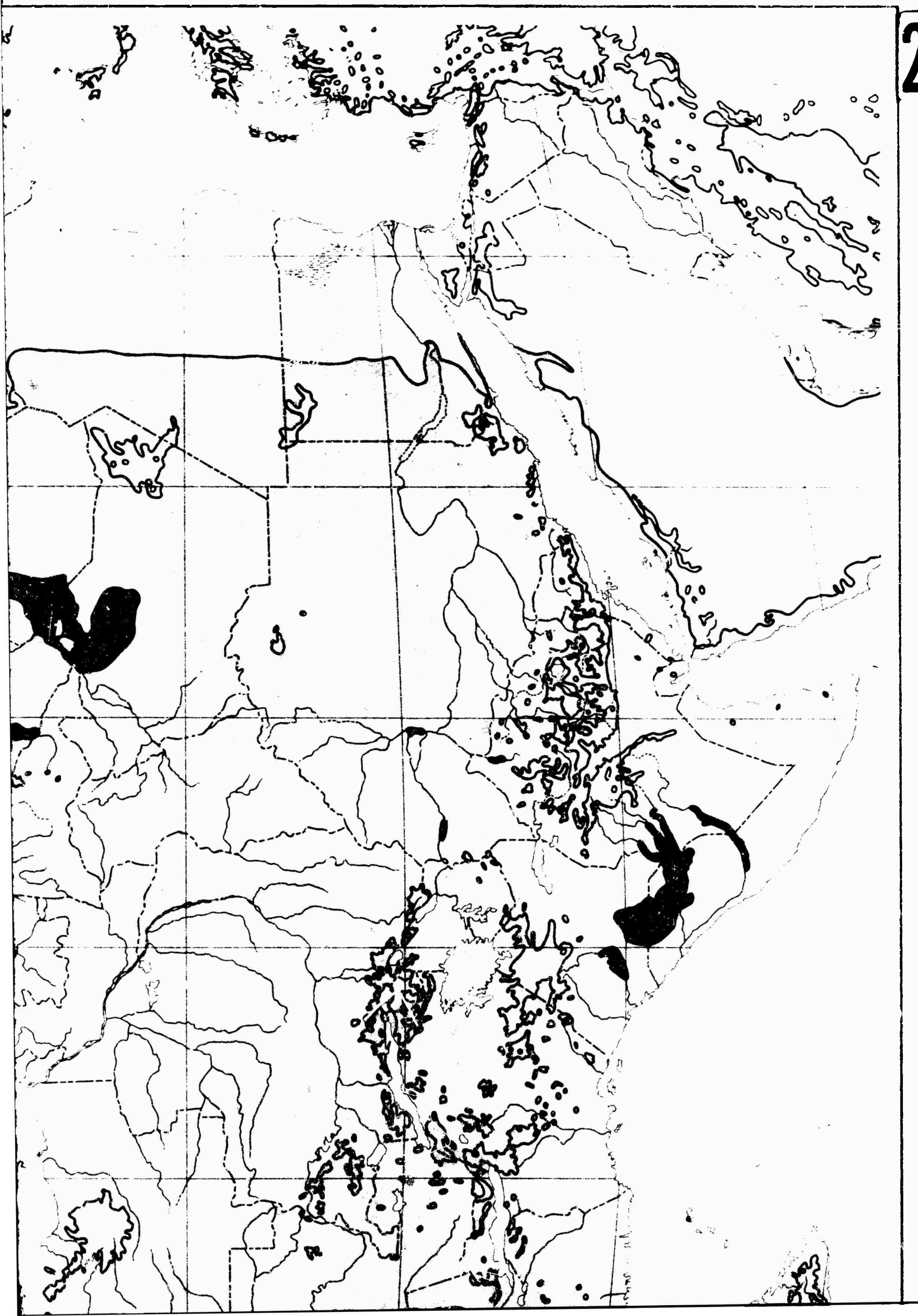
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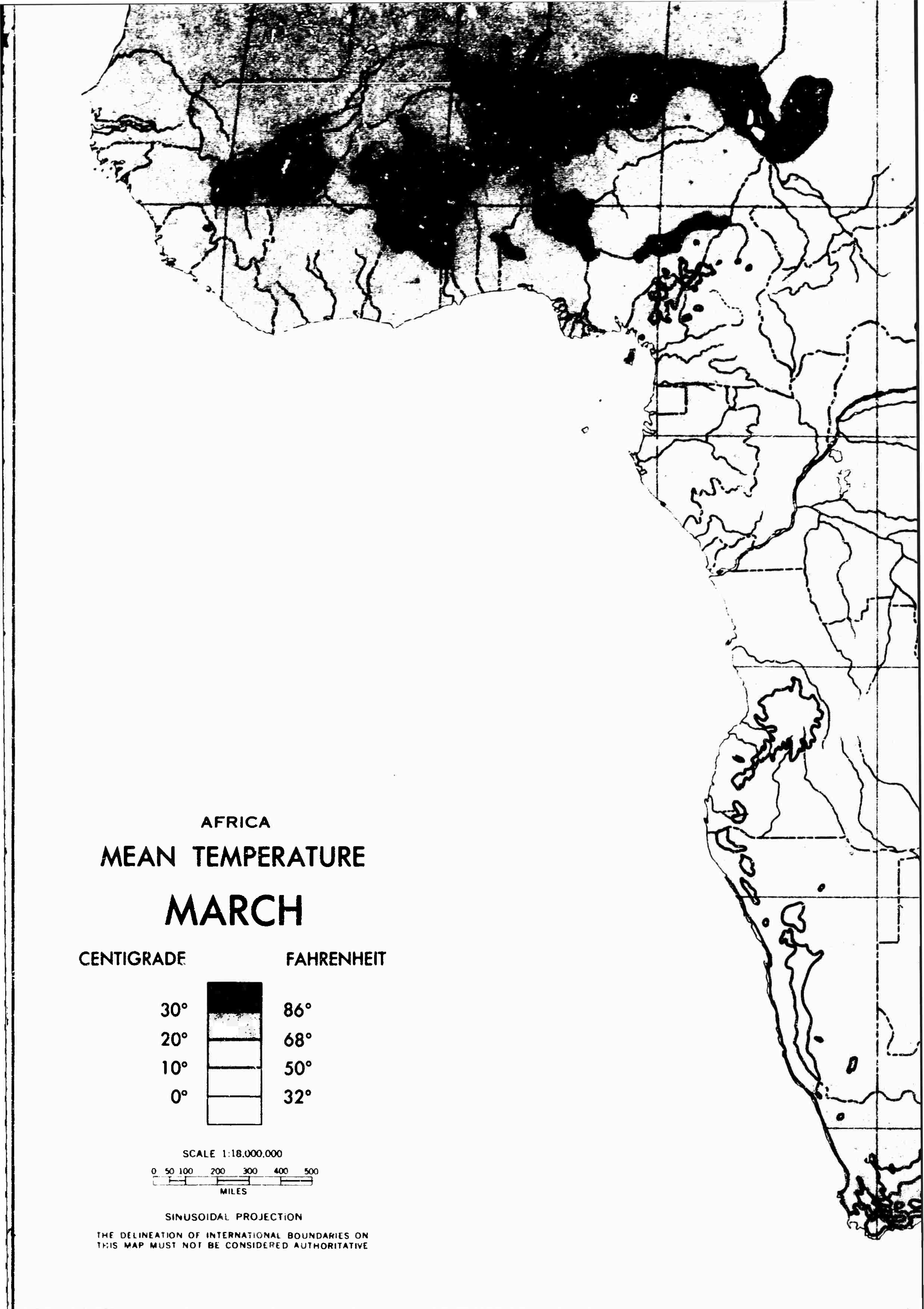
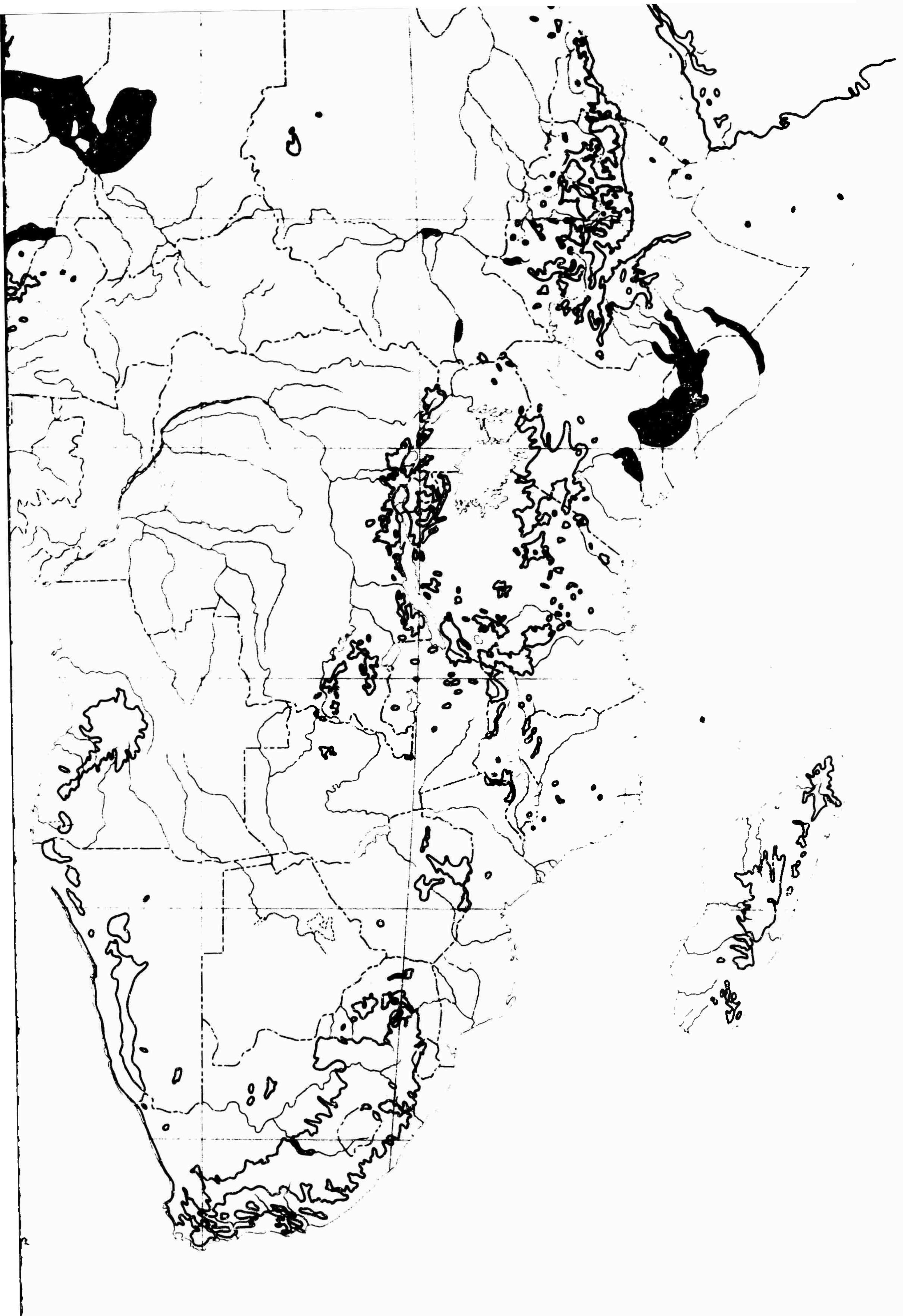

AFRICA
MEAN TEMPERATURE
MARCH
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



2

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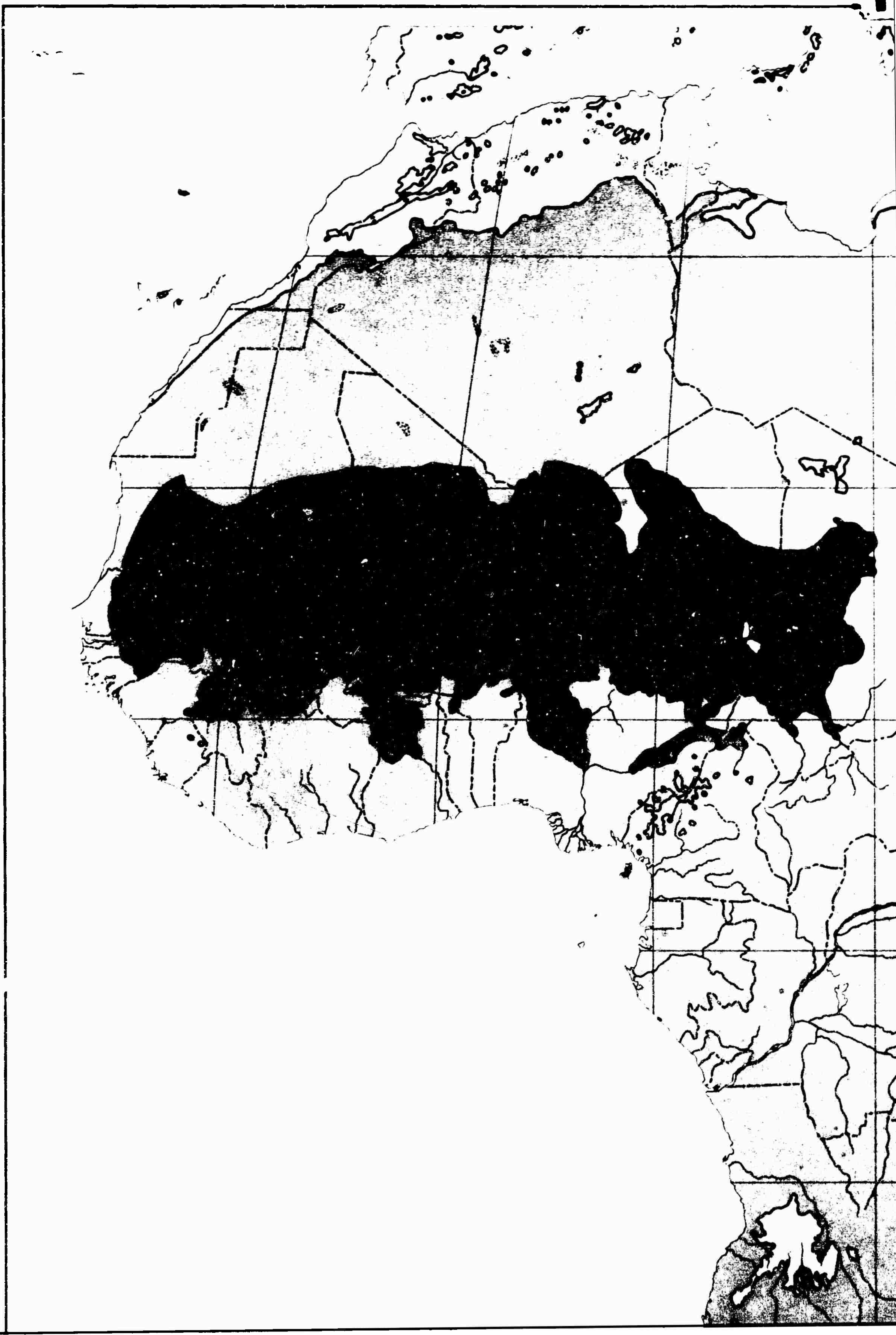

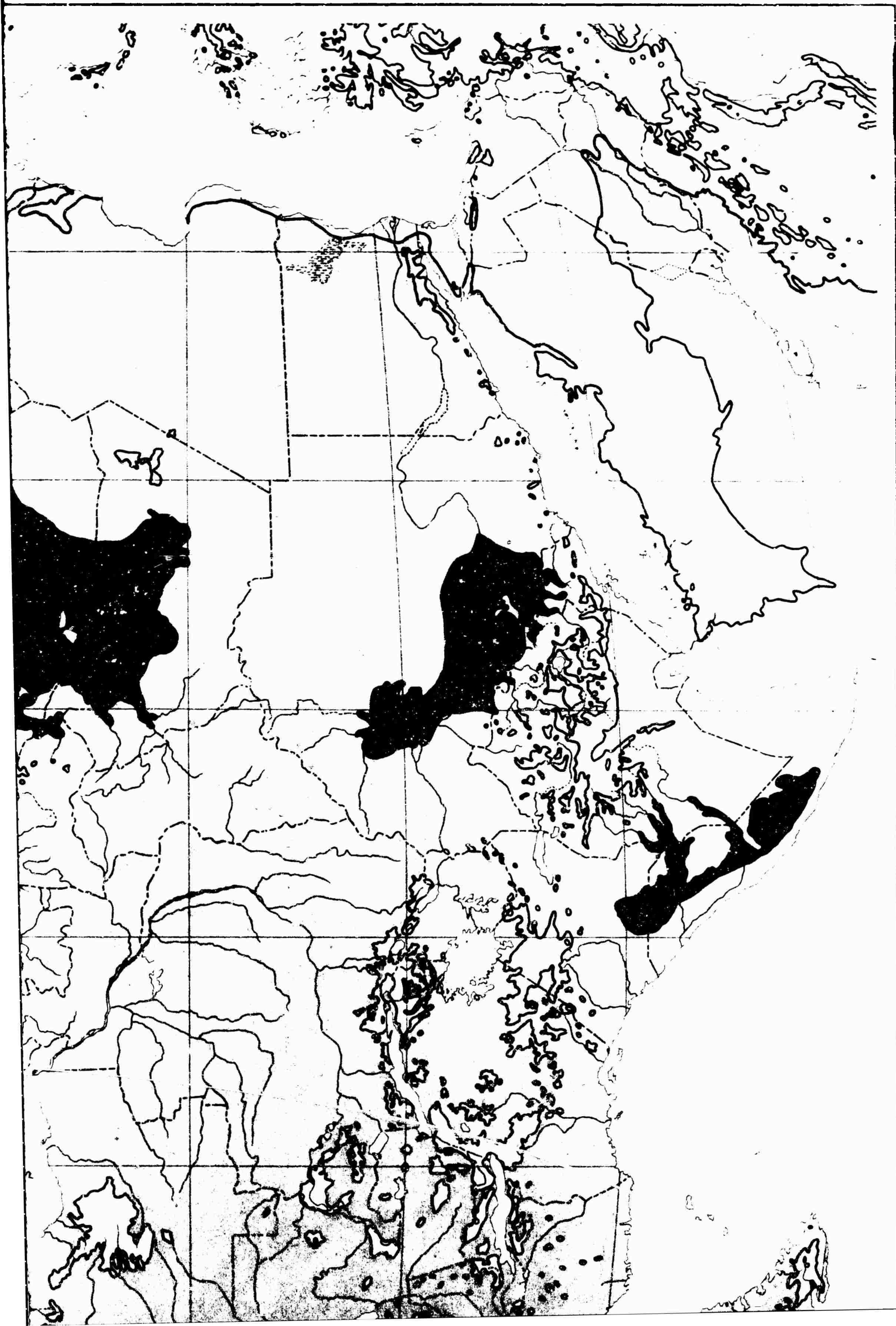

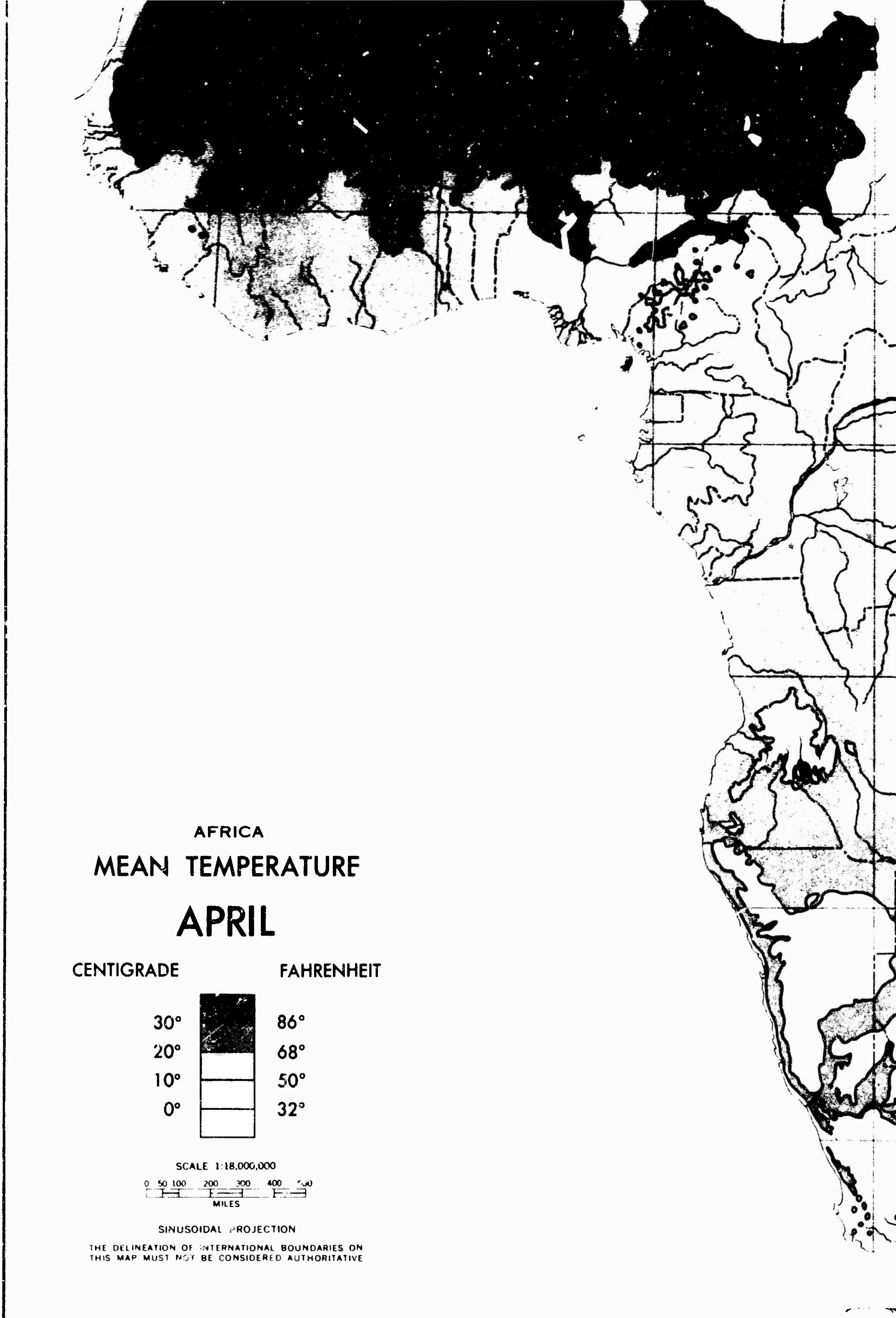
AFRICA
MEAN TEMPERATURE
APRIL
CENTIGRADE
FAHRENHEIT
30°
20°
10°
0°
86°
68°
50°
32°
SCALE 1:18,000,000
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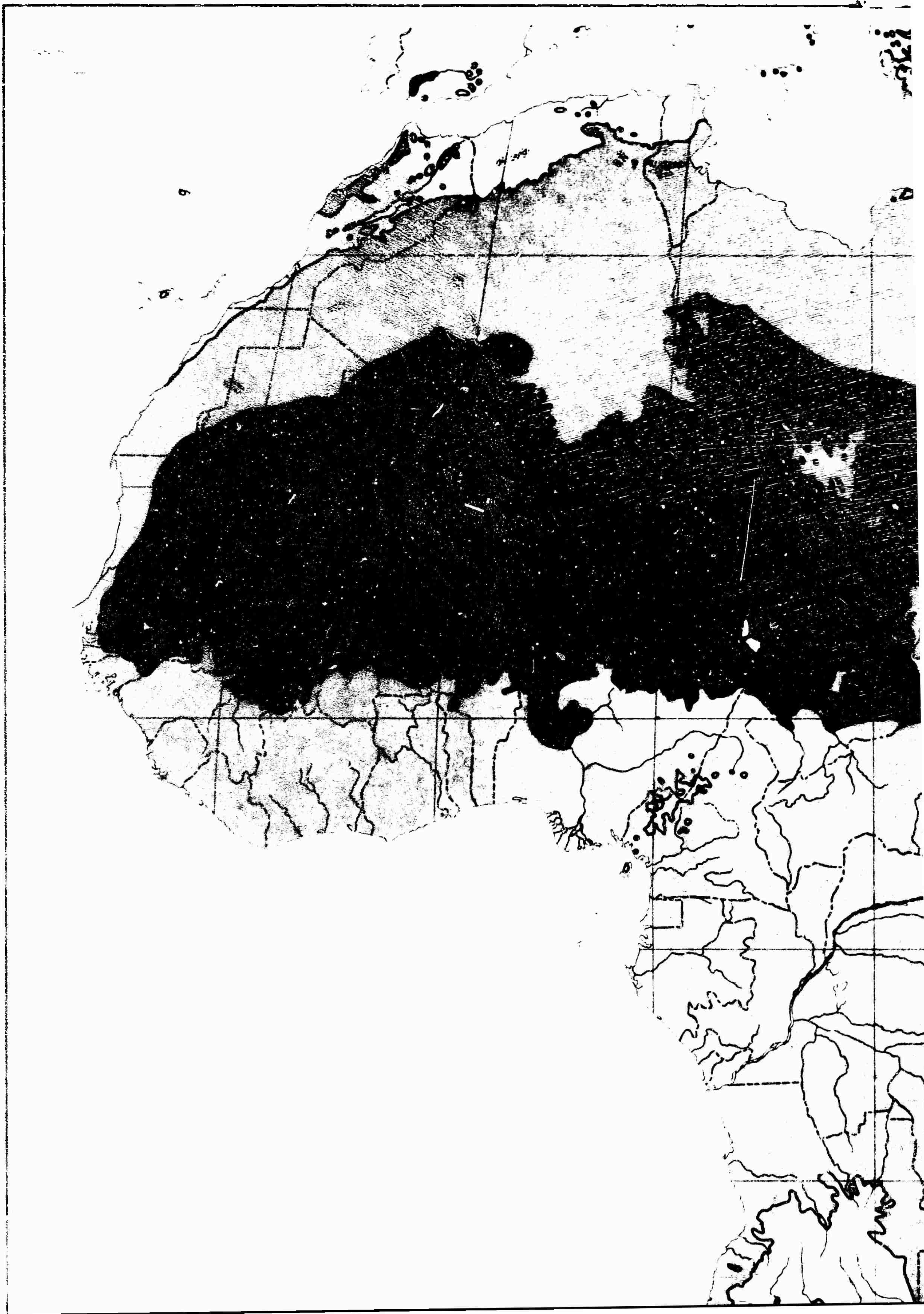
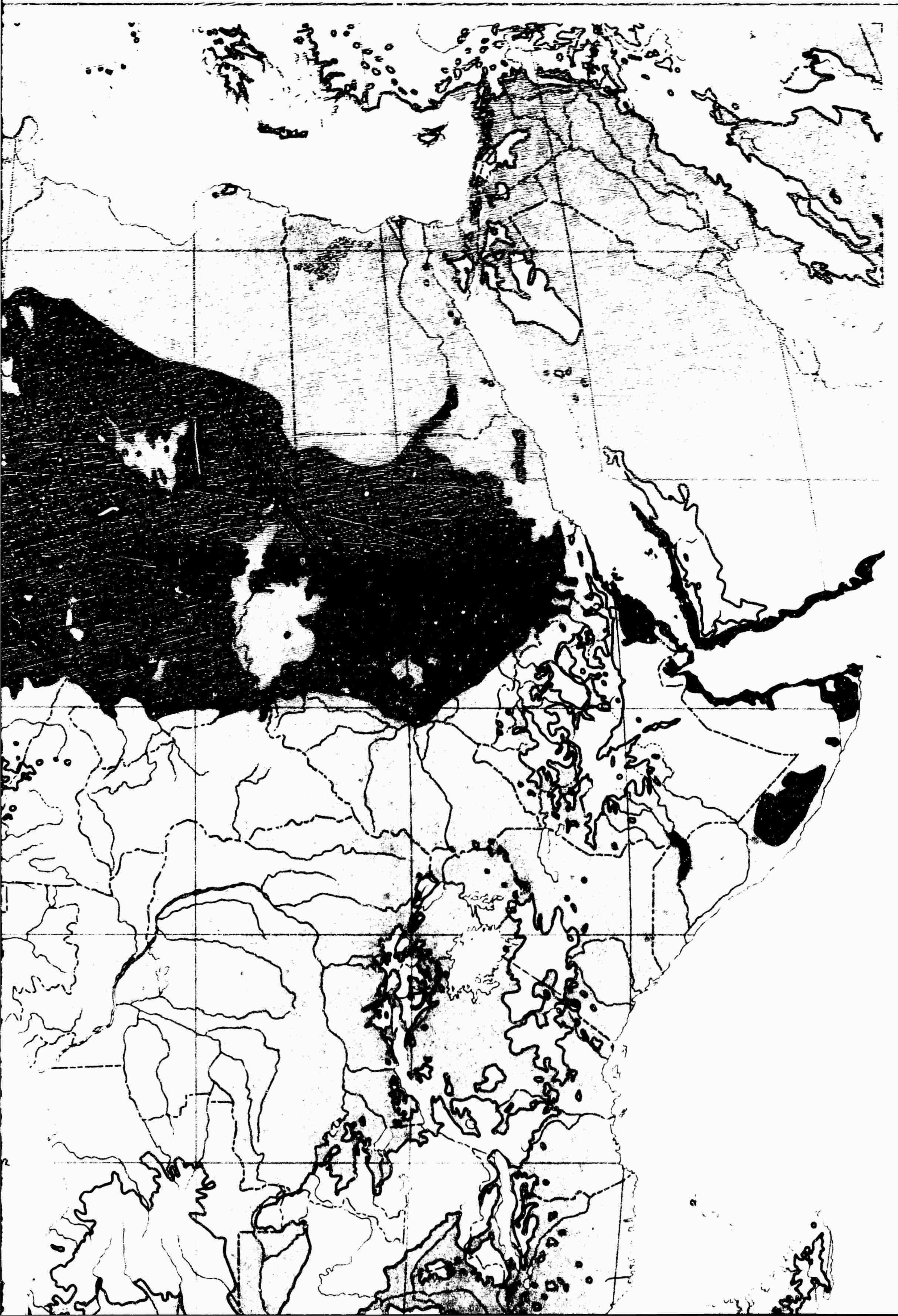
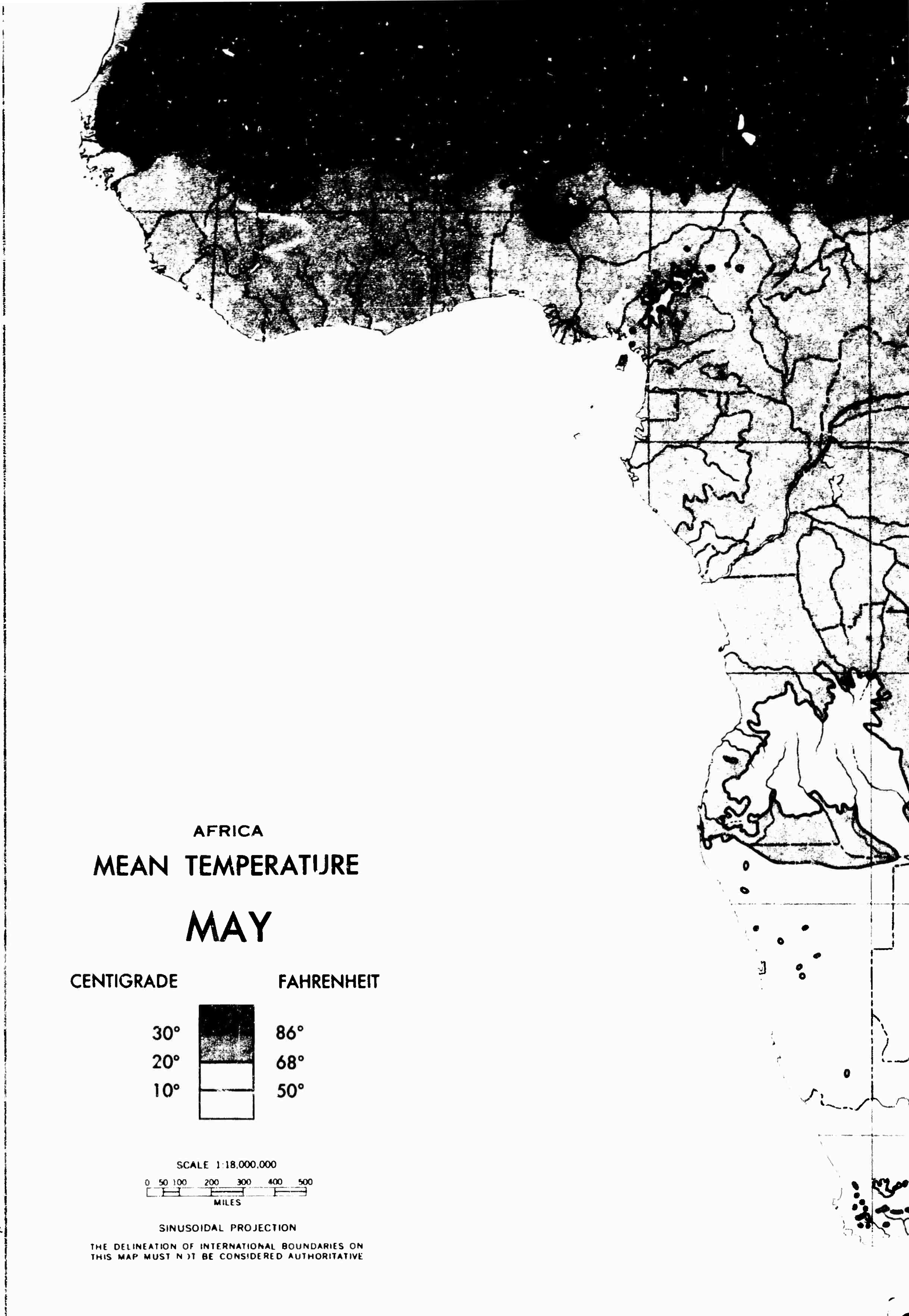
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE

4

1






AFRICA
MEAN TEMPERATURE
MAY
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
SCALE 1:18,000,000
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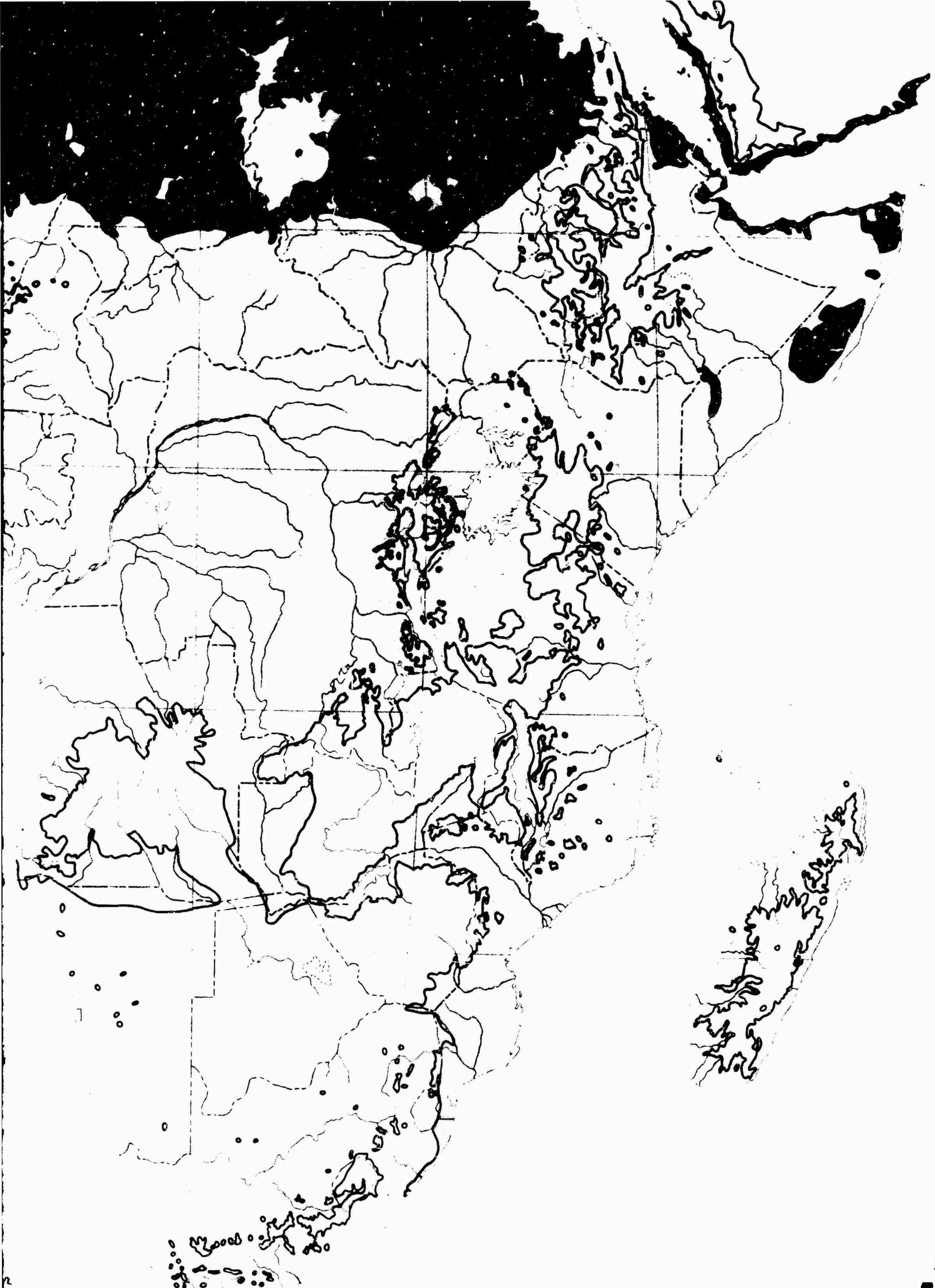
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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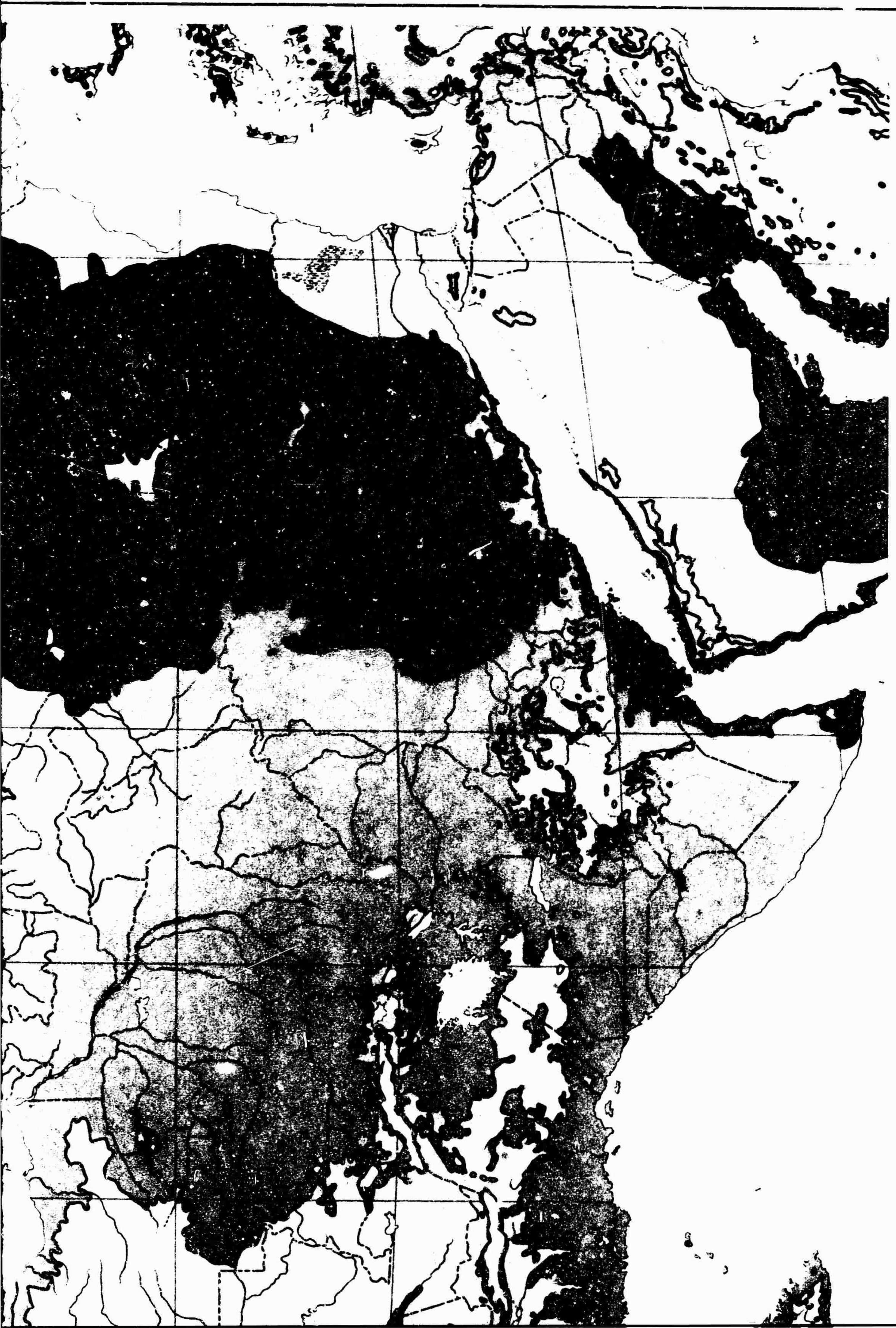

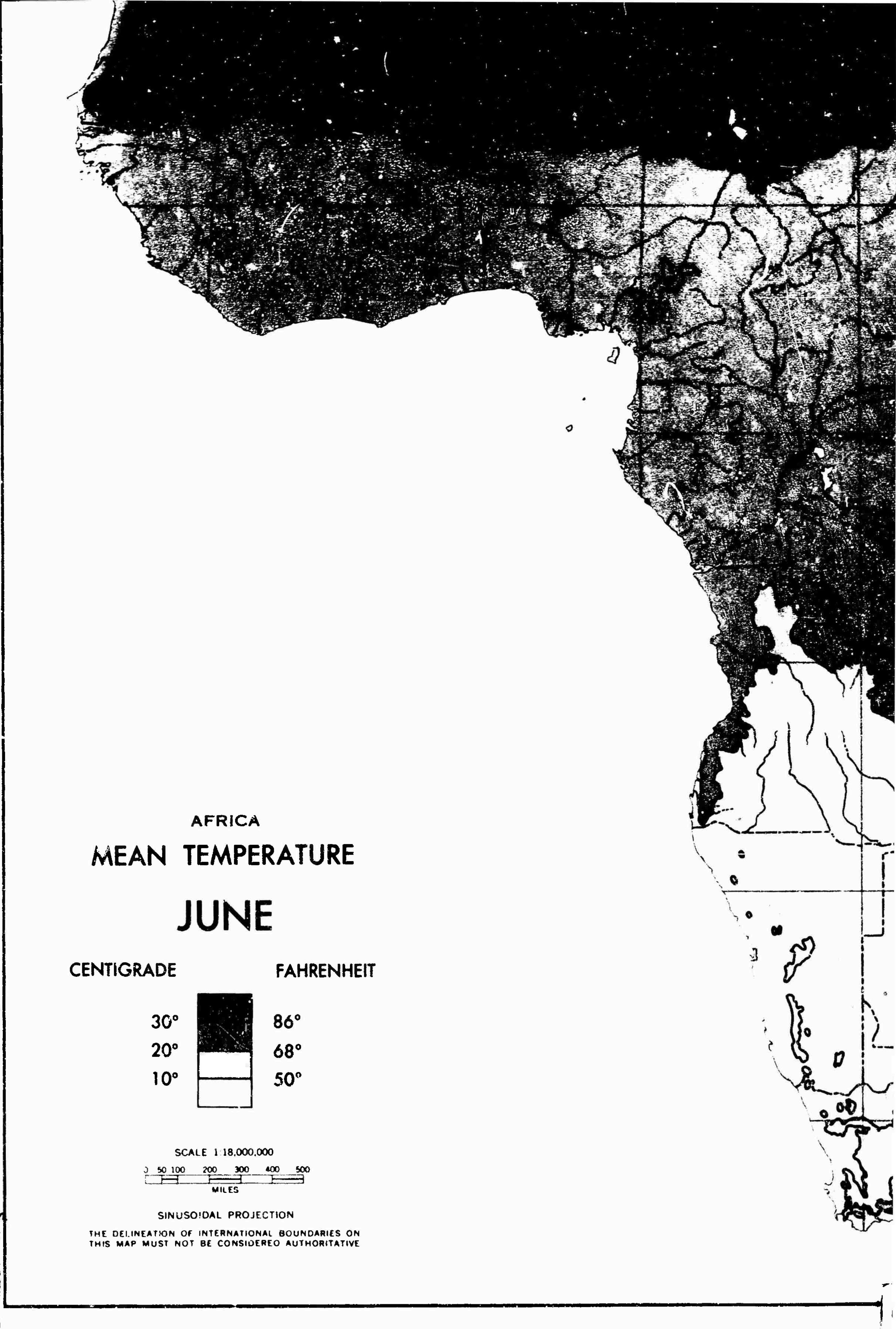
AFRICA
MEAN TEMPERATURE
JUNE
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
SCALE 1:18,000,000
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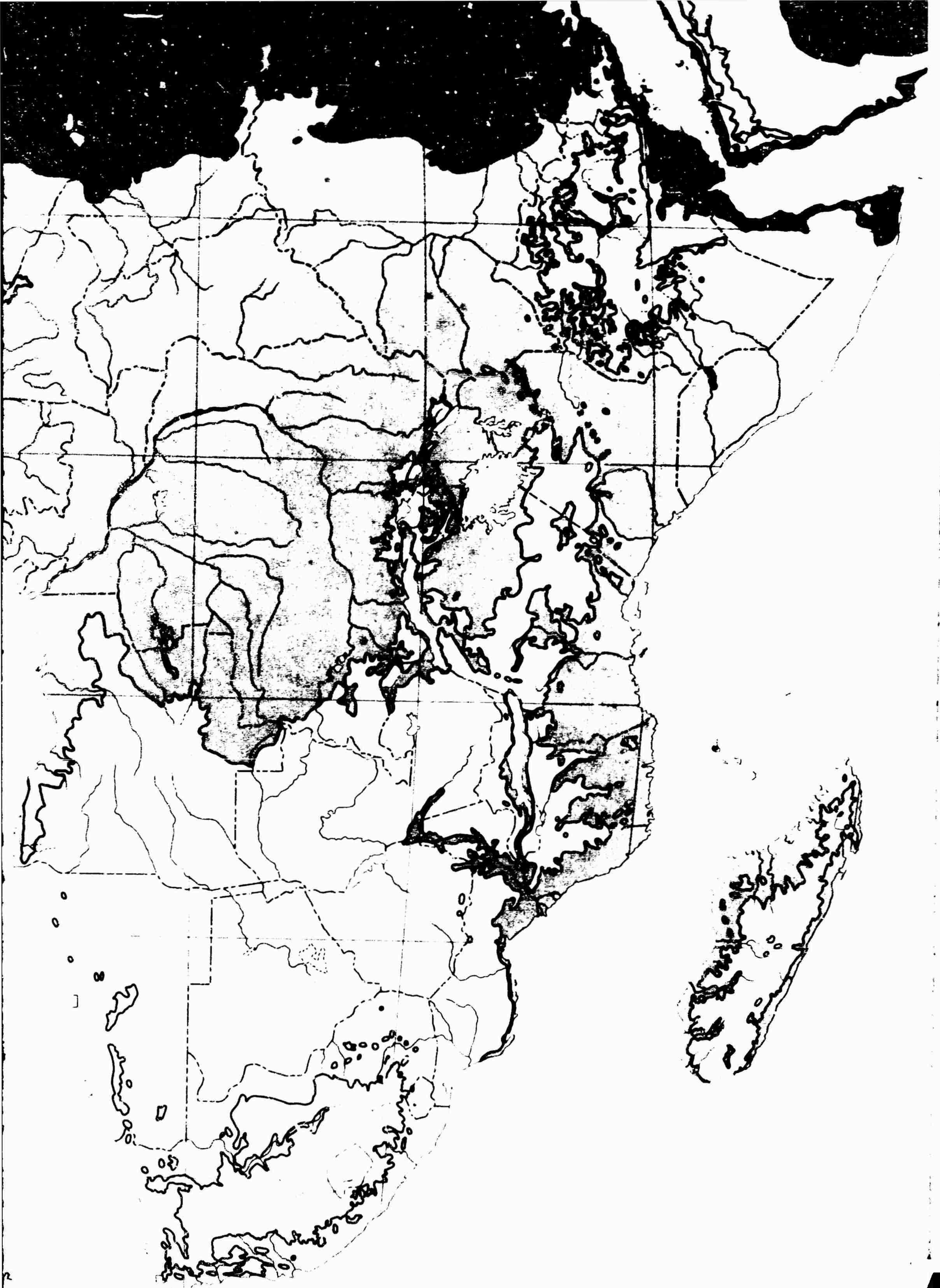
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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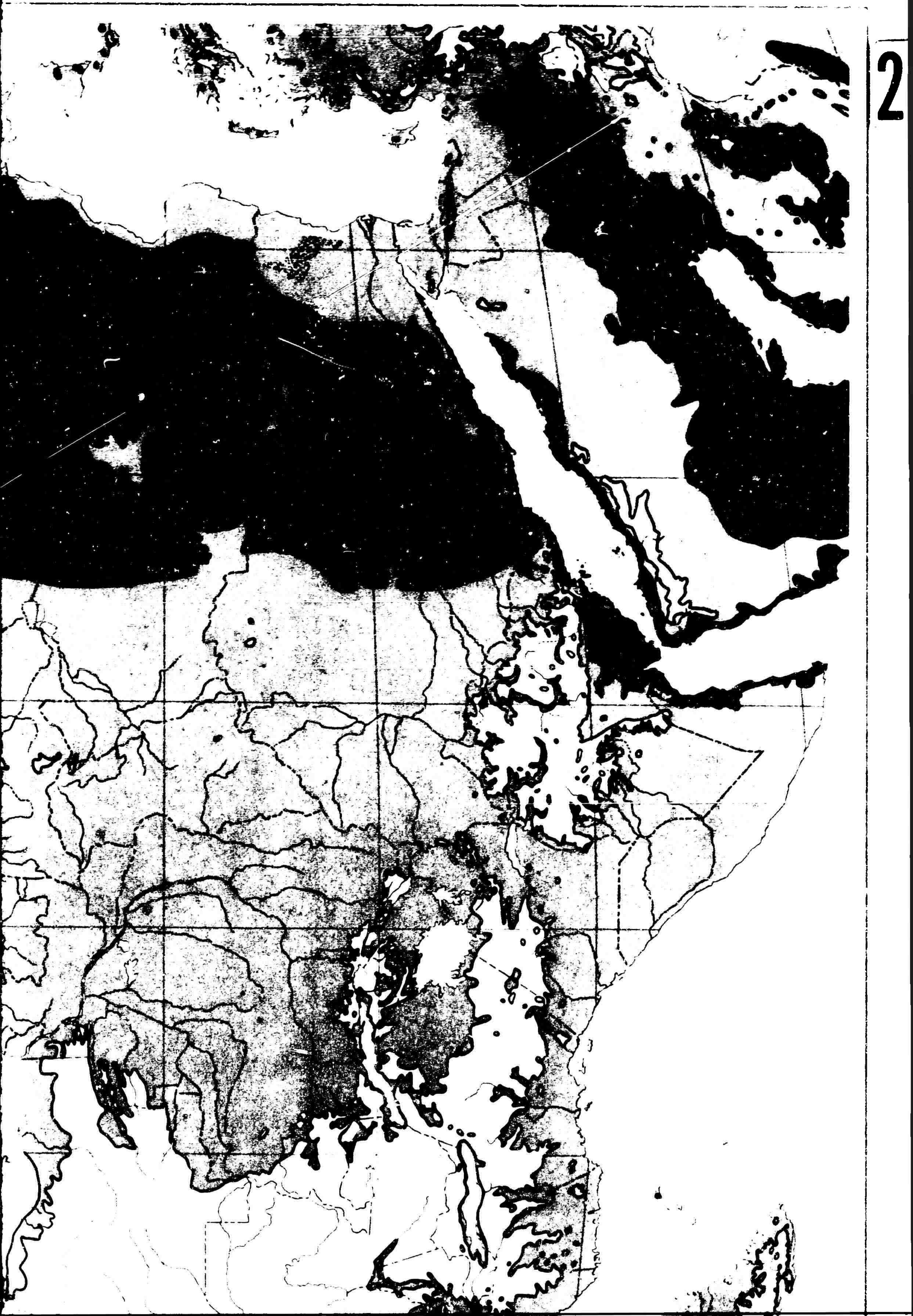
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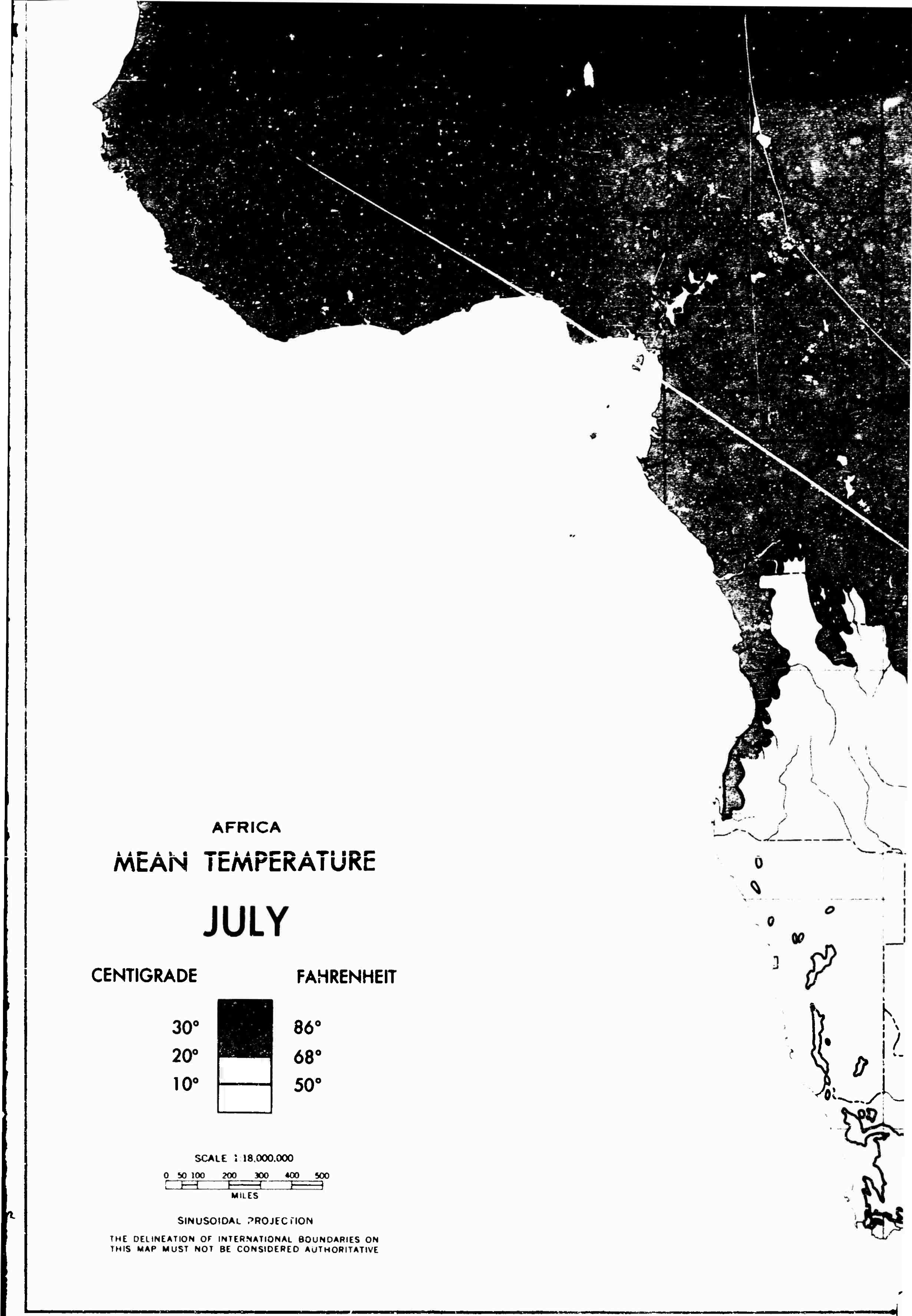
AFRICA
MEAN TEMPERATURE
JULY
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
SCALE 1:18,000,000
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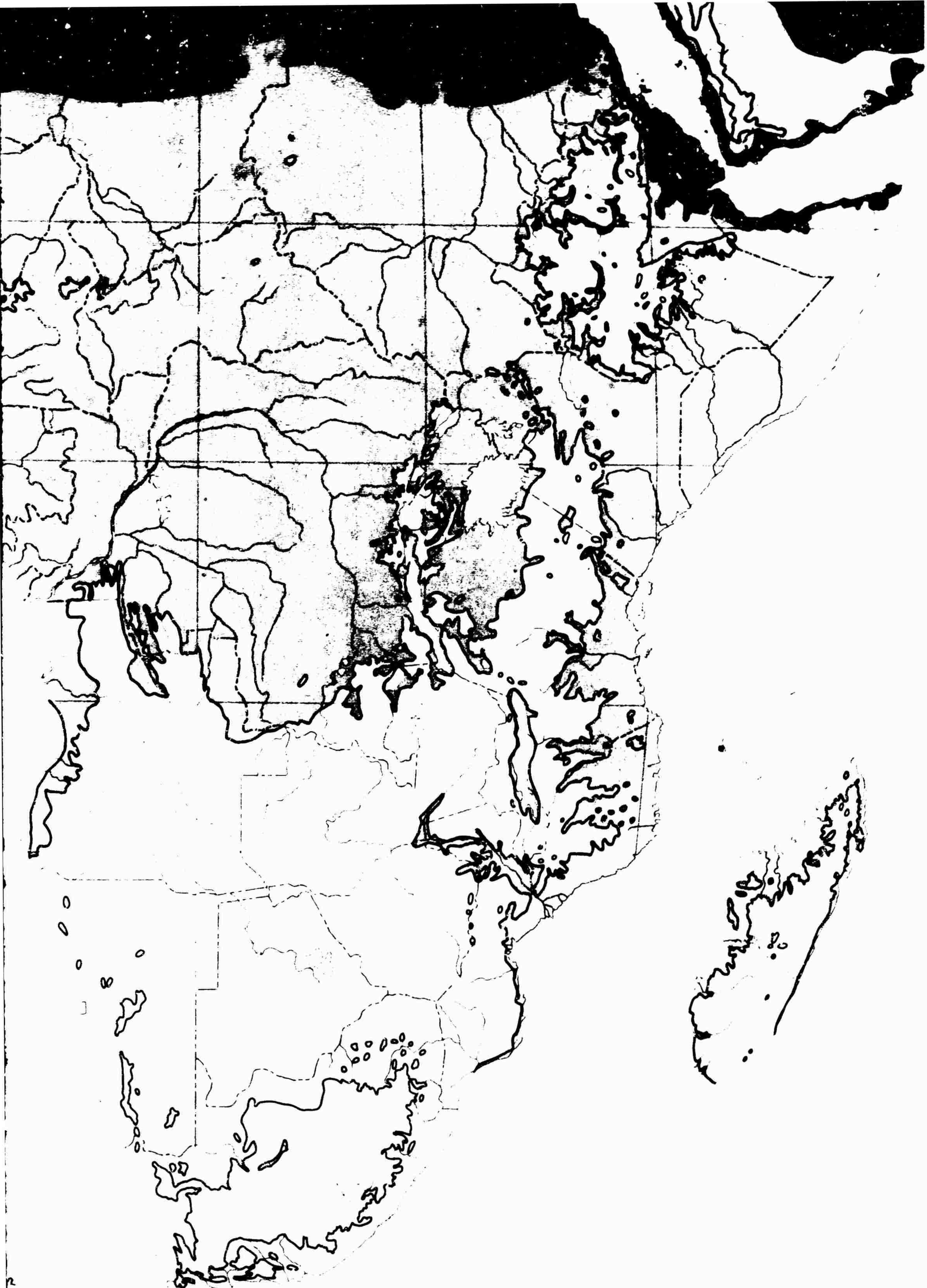
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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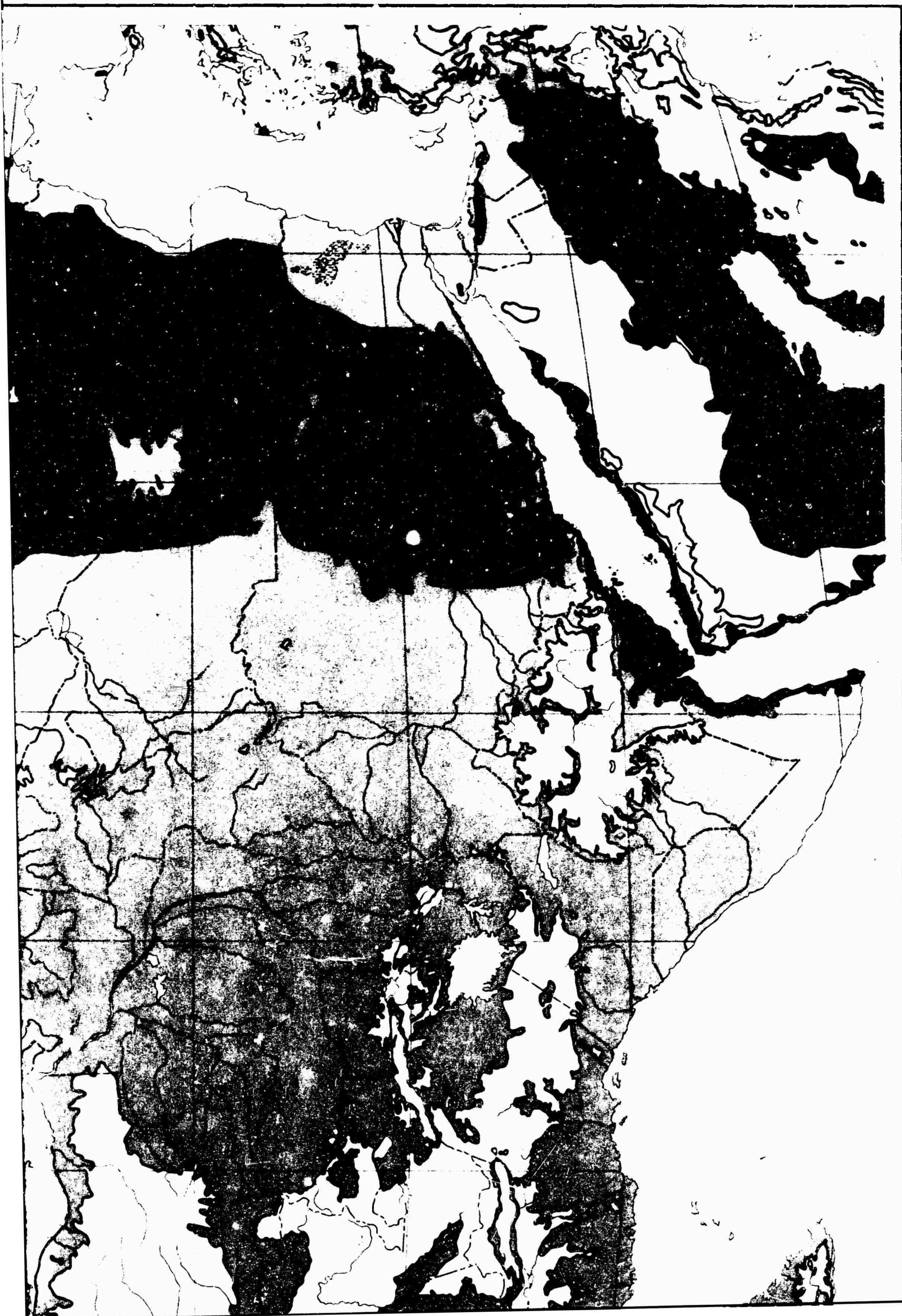
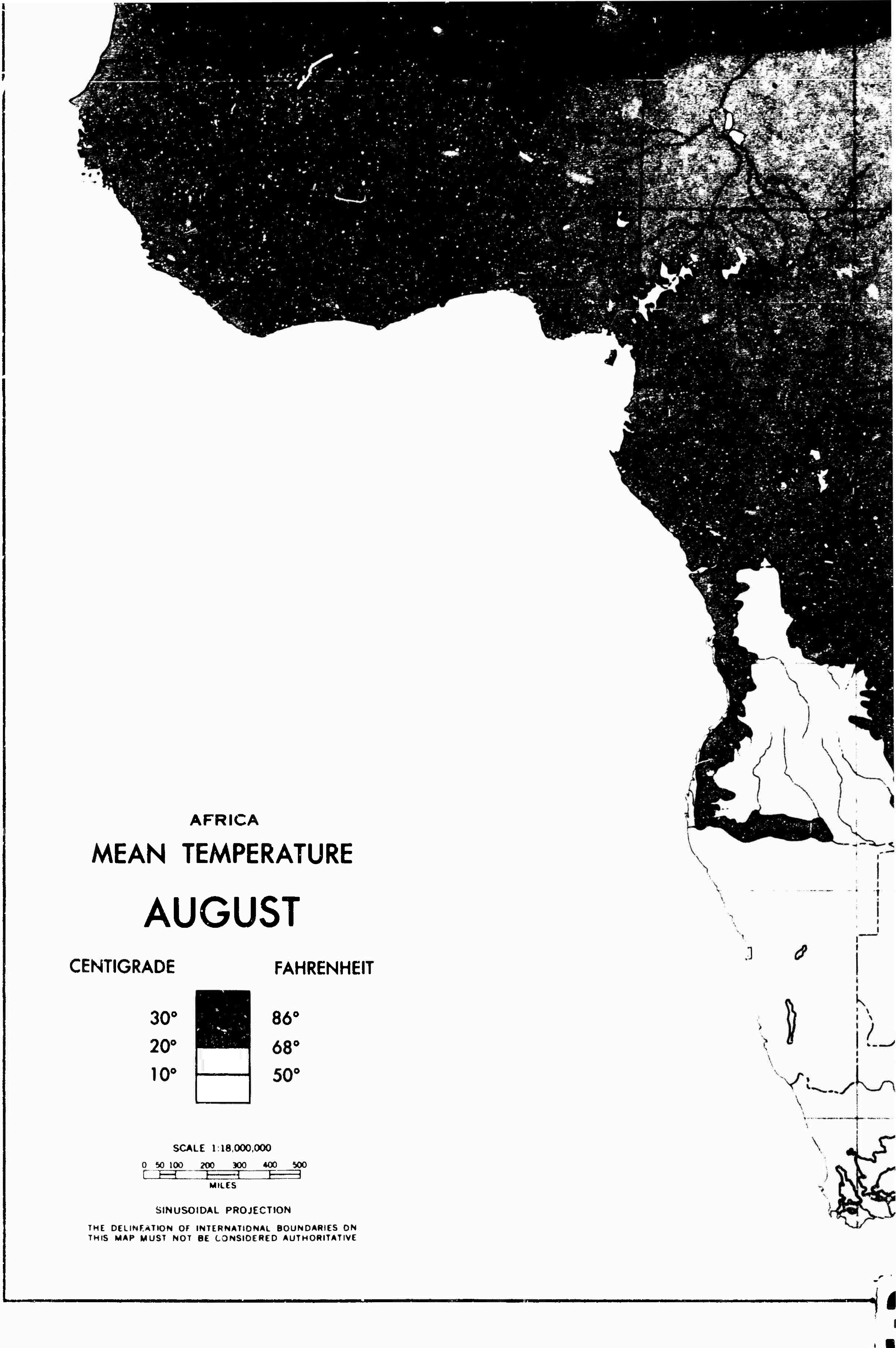


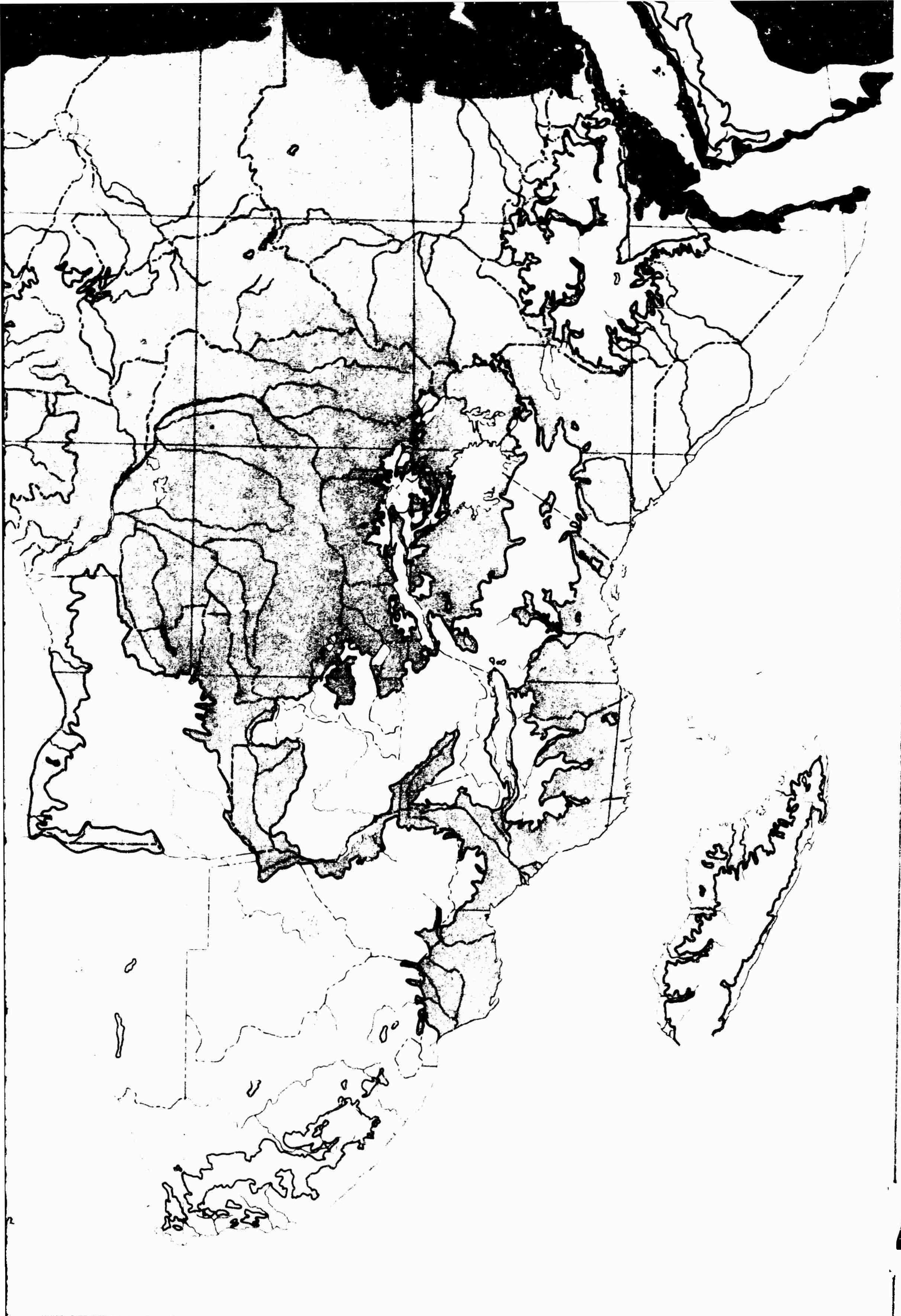


AFRICA

MEAN TEMPERATURE

AUGUST

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



4

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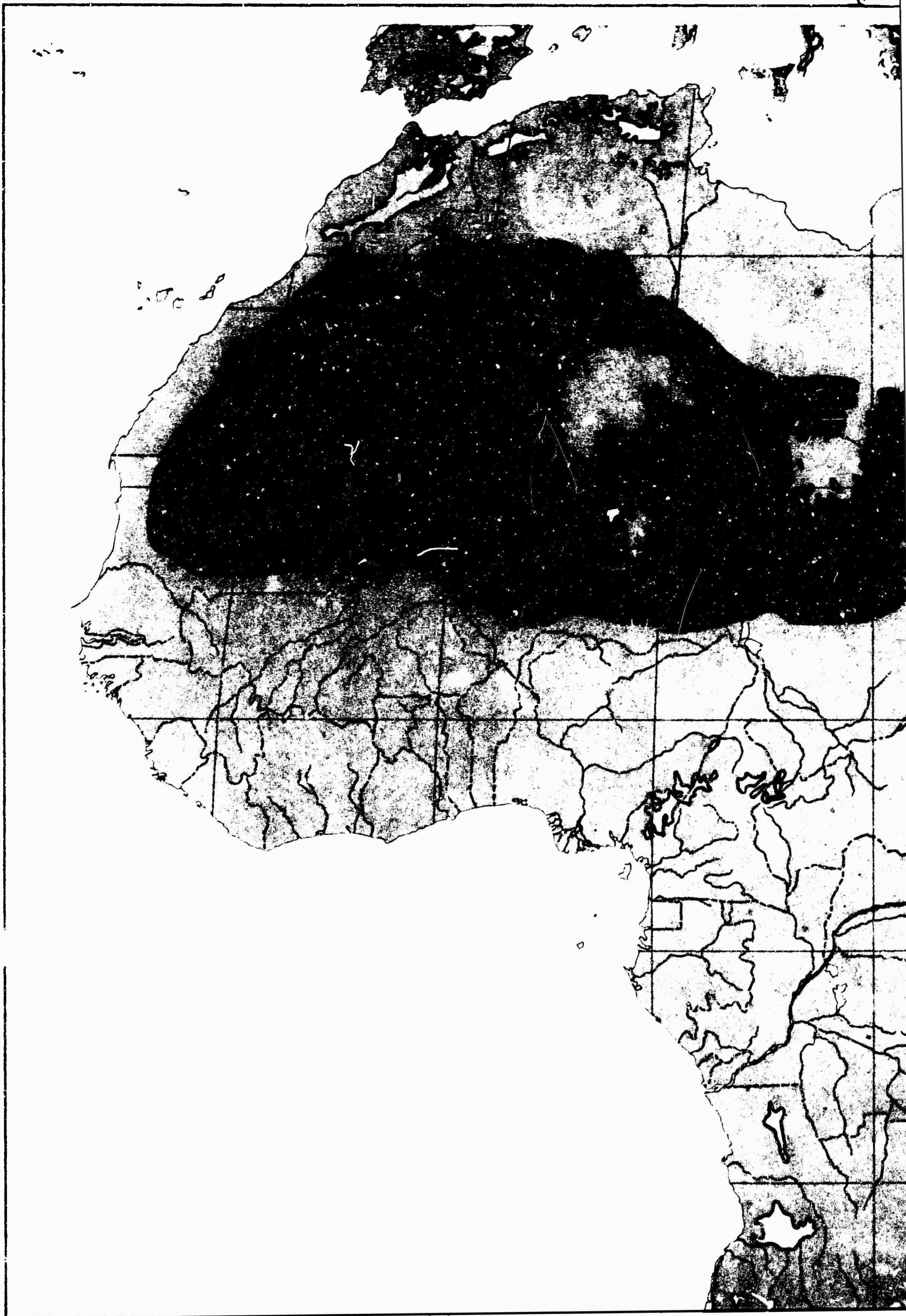
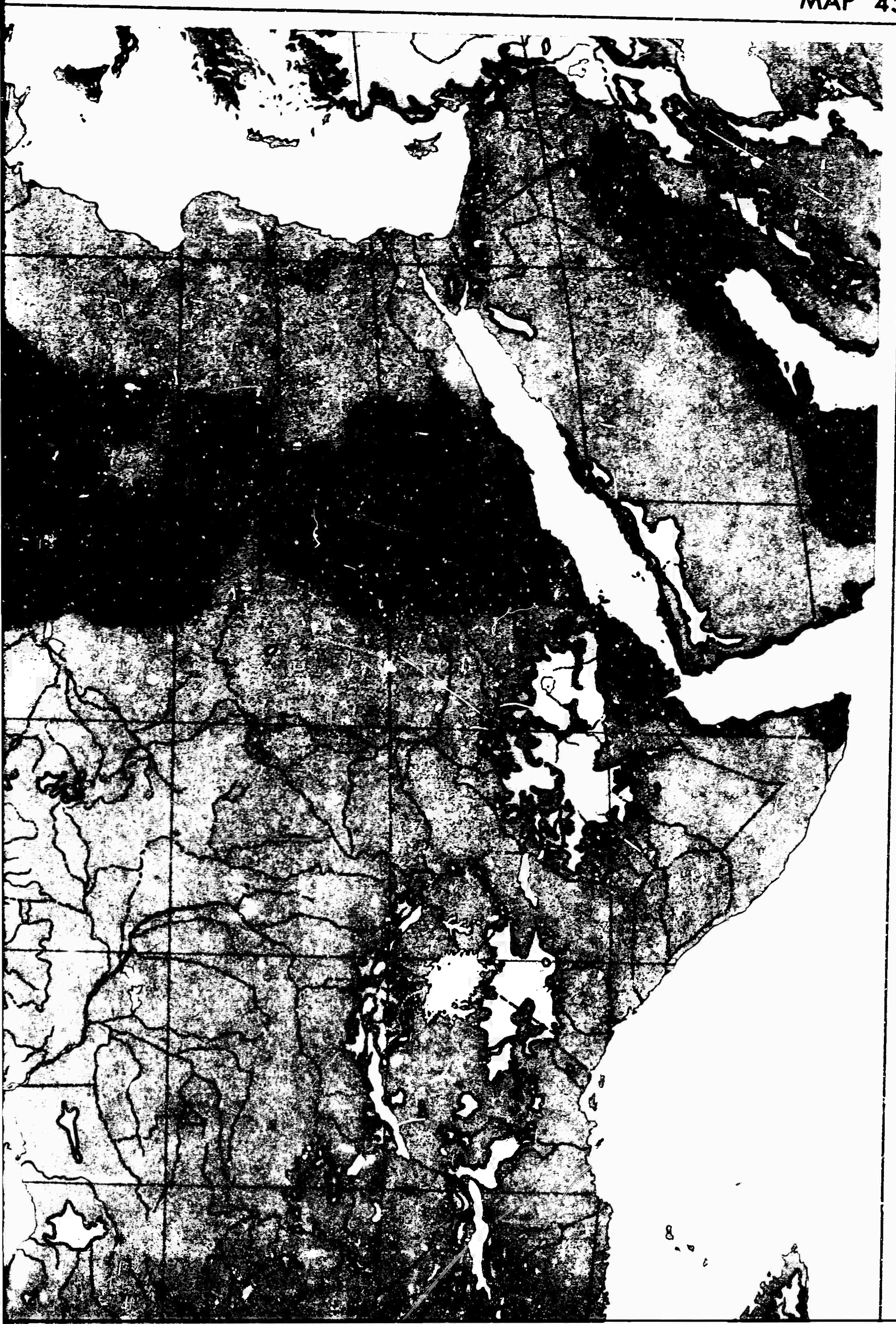
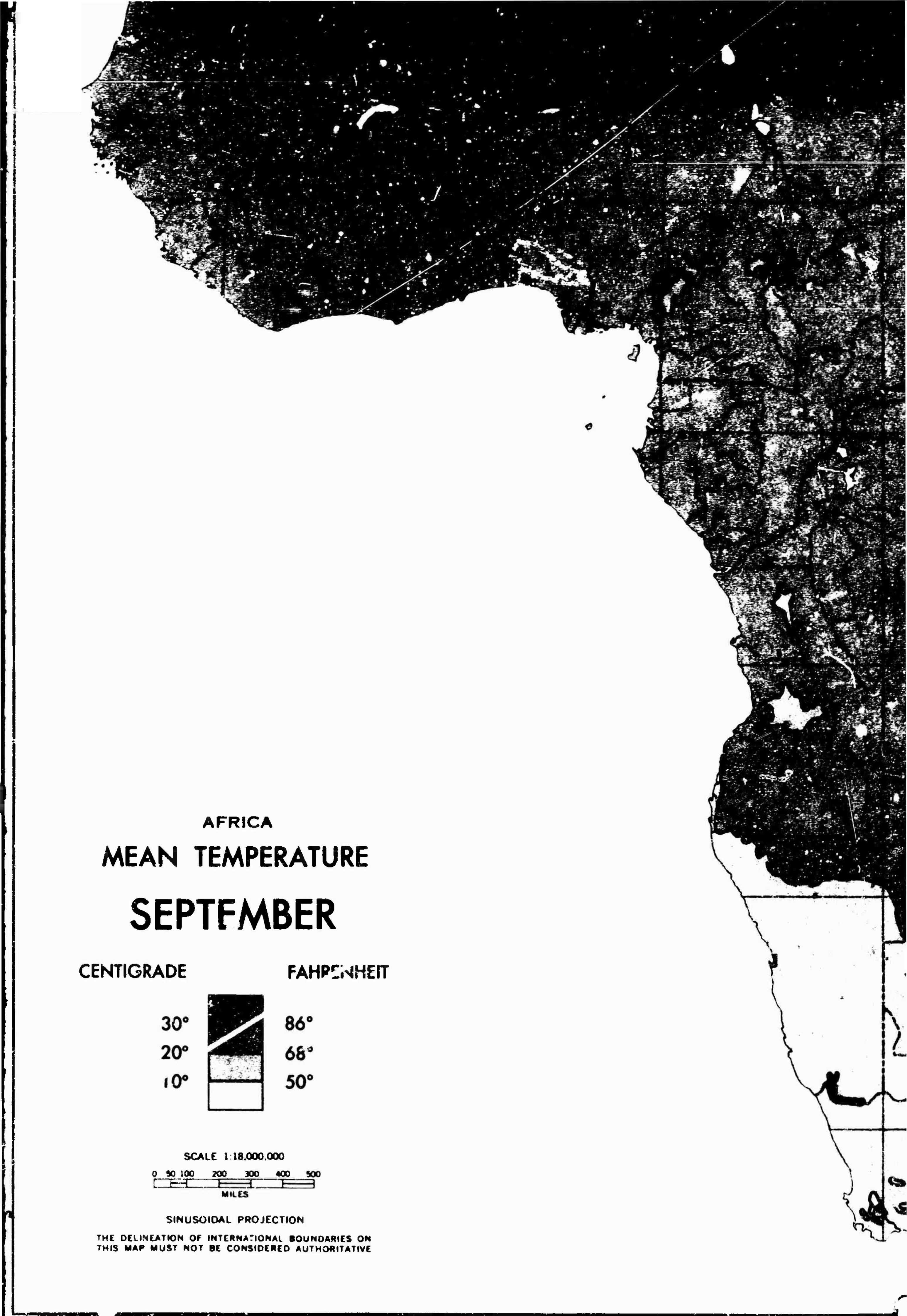
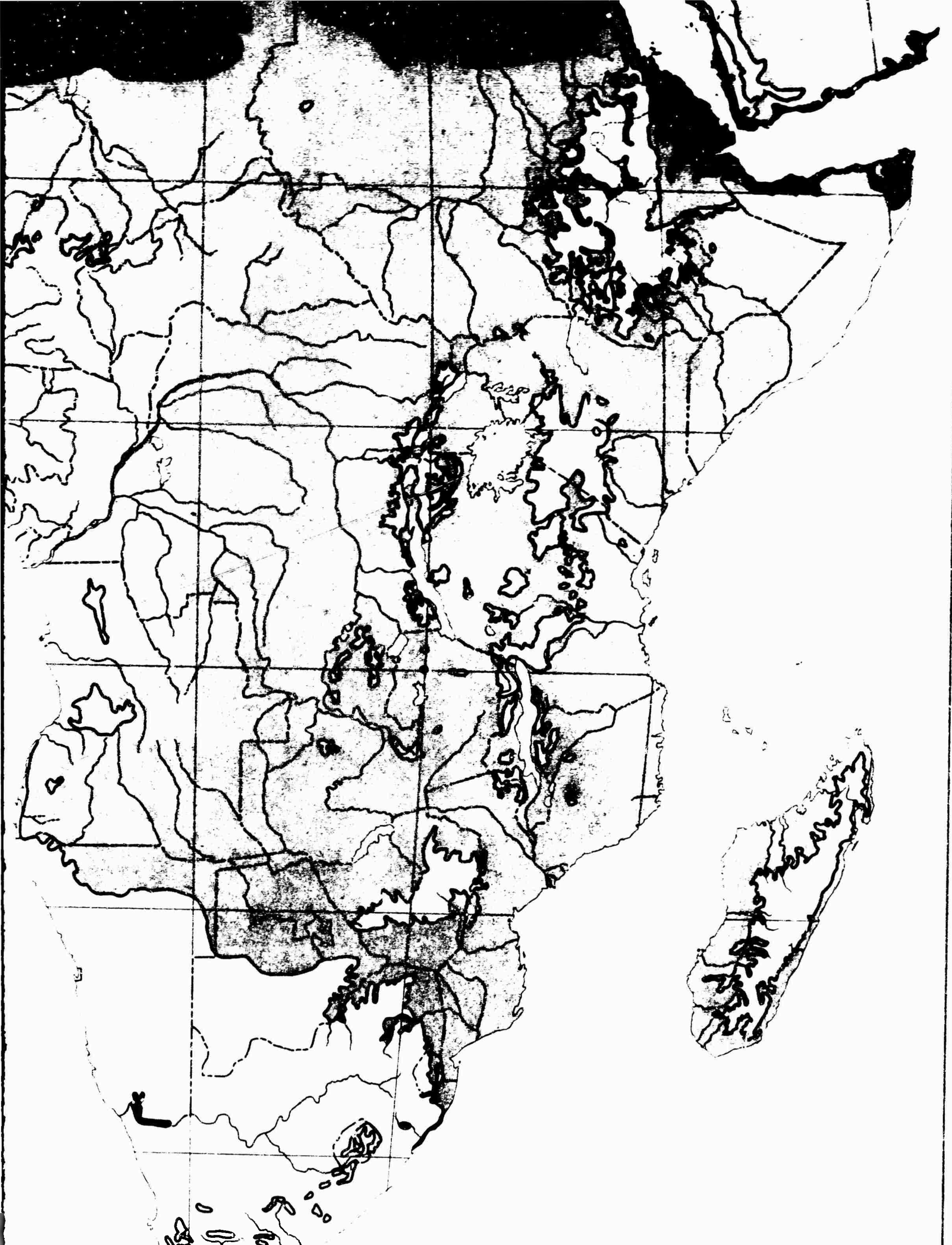





AFRICA
MEAN TEMPERATURE
SEPTEMBER
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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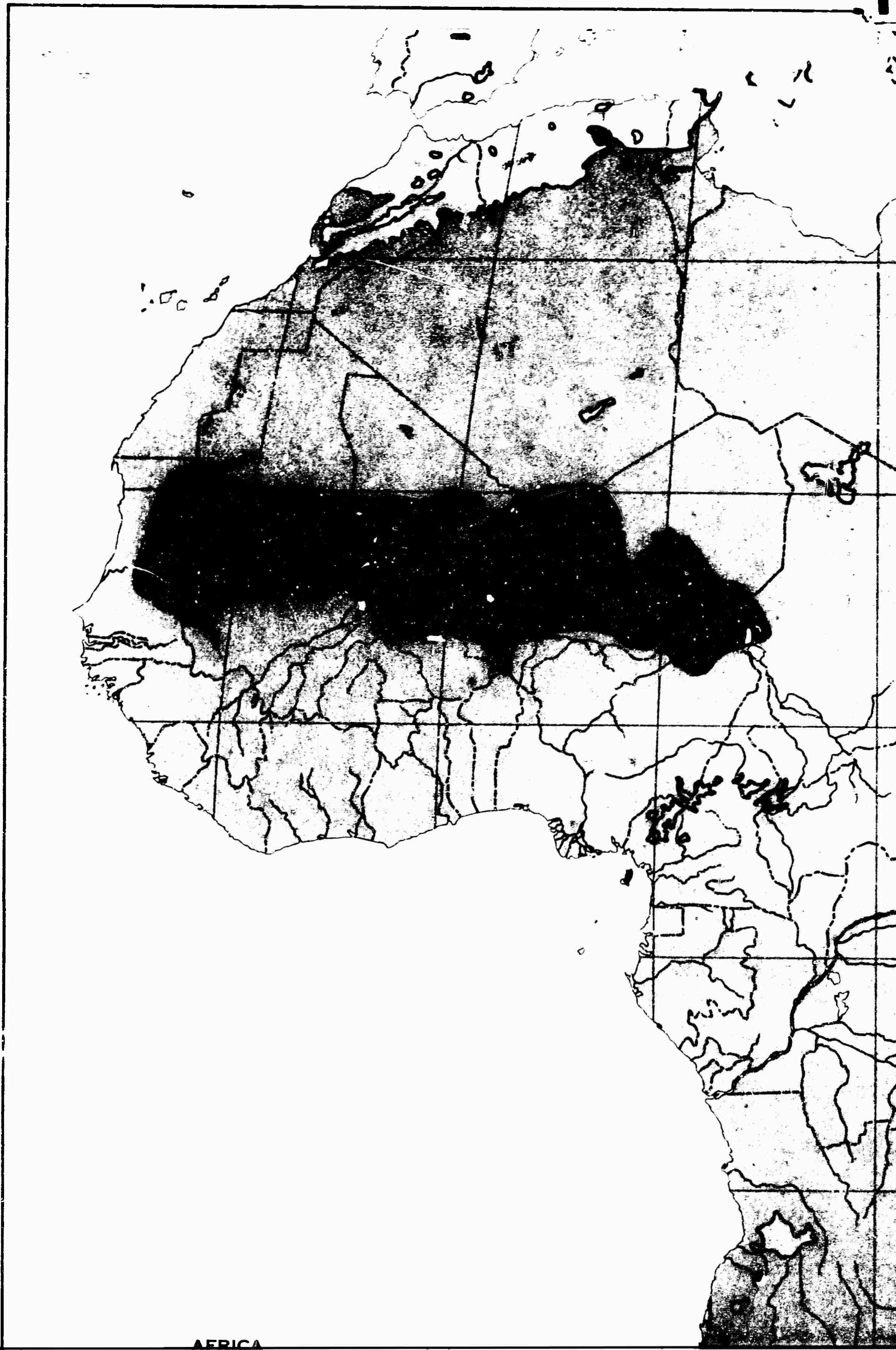
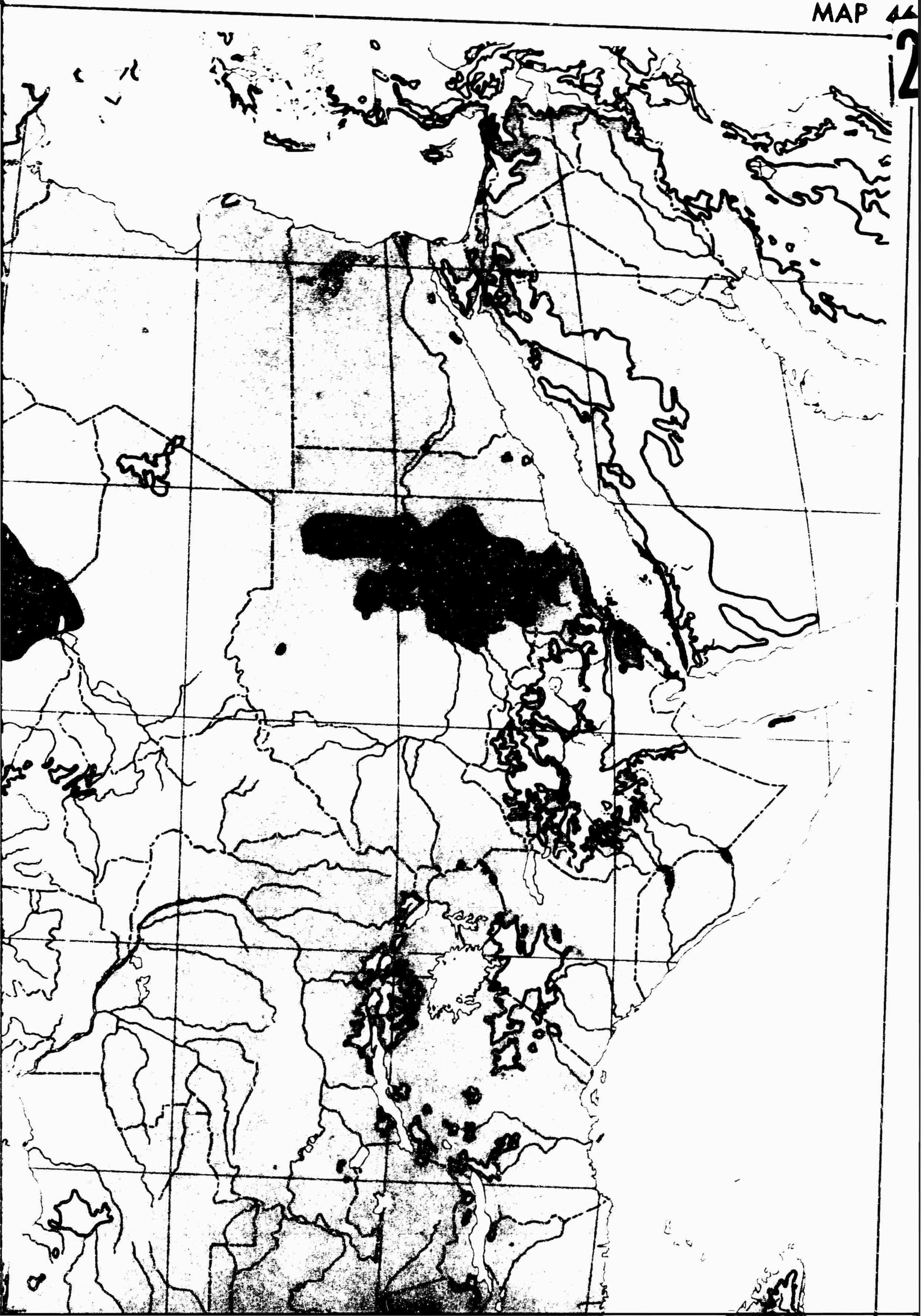
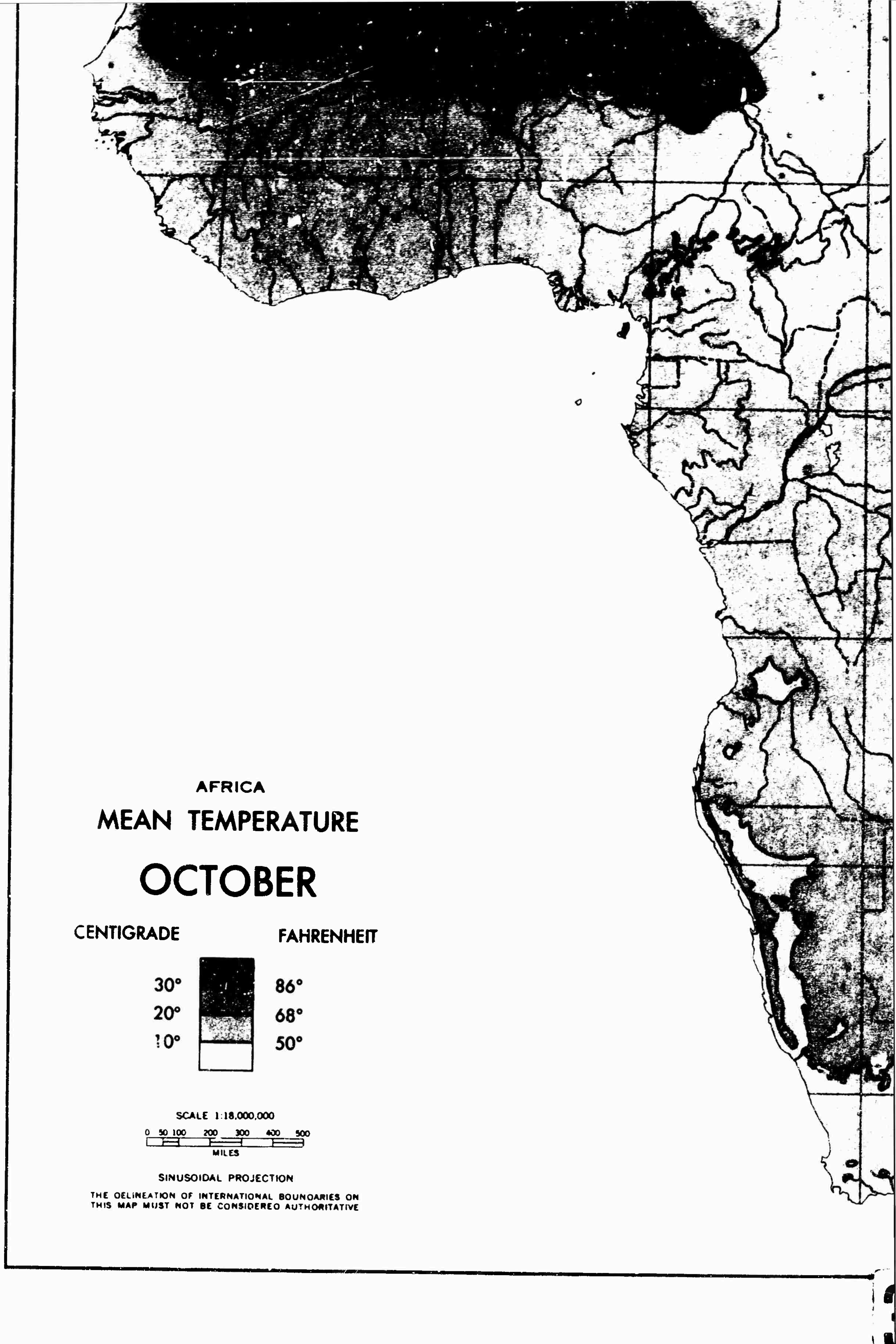

AFRICA


MAP 44


AFRICA
MEAN TEMPERATURE
OCTOBER
CENTIGRADE
FAHRENHEIT
30°
20°
10°
86°
68°
50°
SCALE 1:18,000,000
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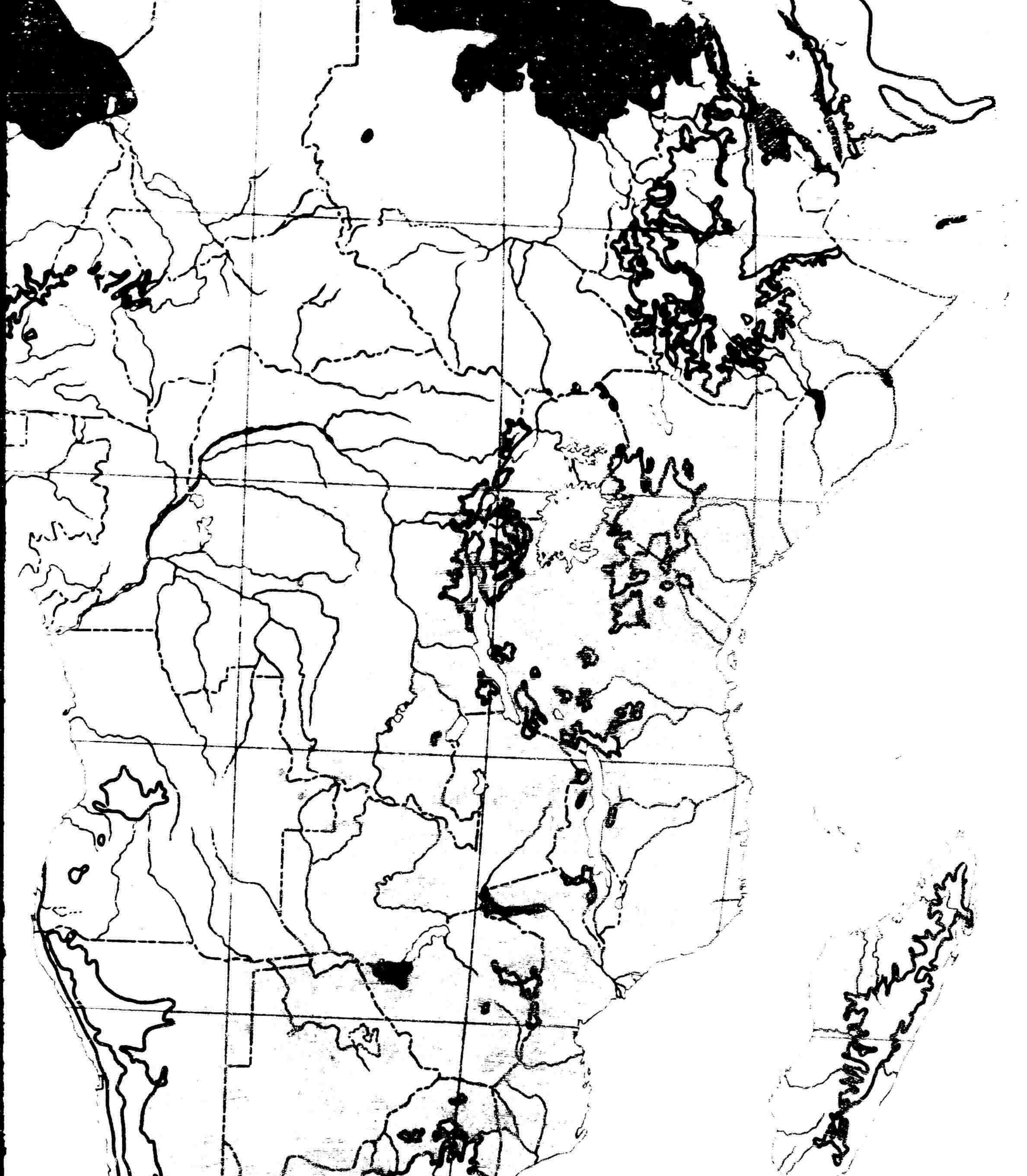
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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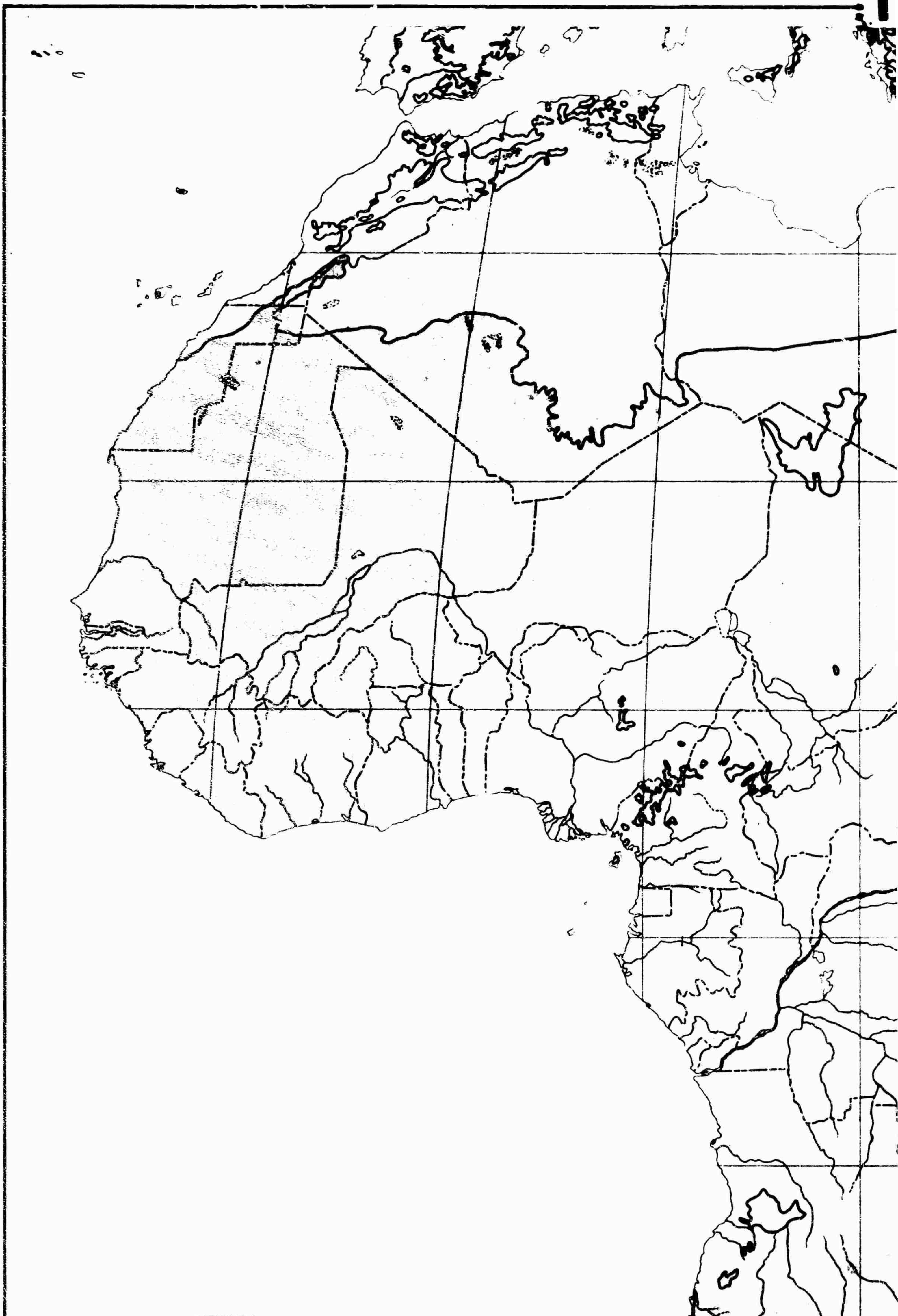
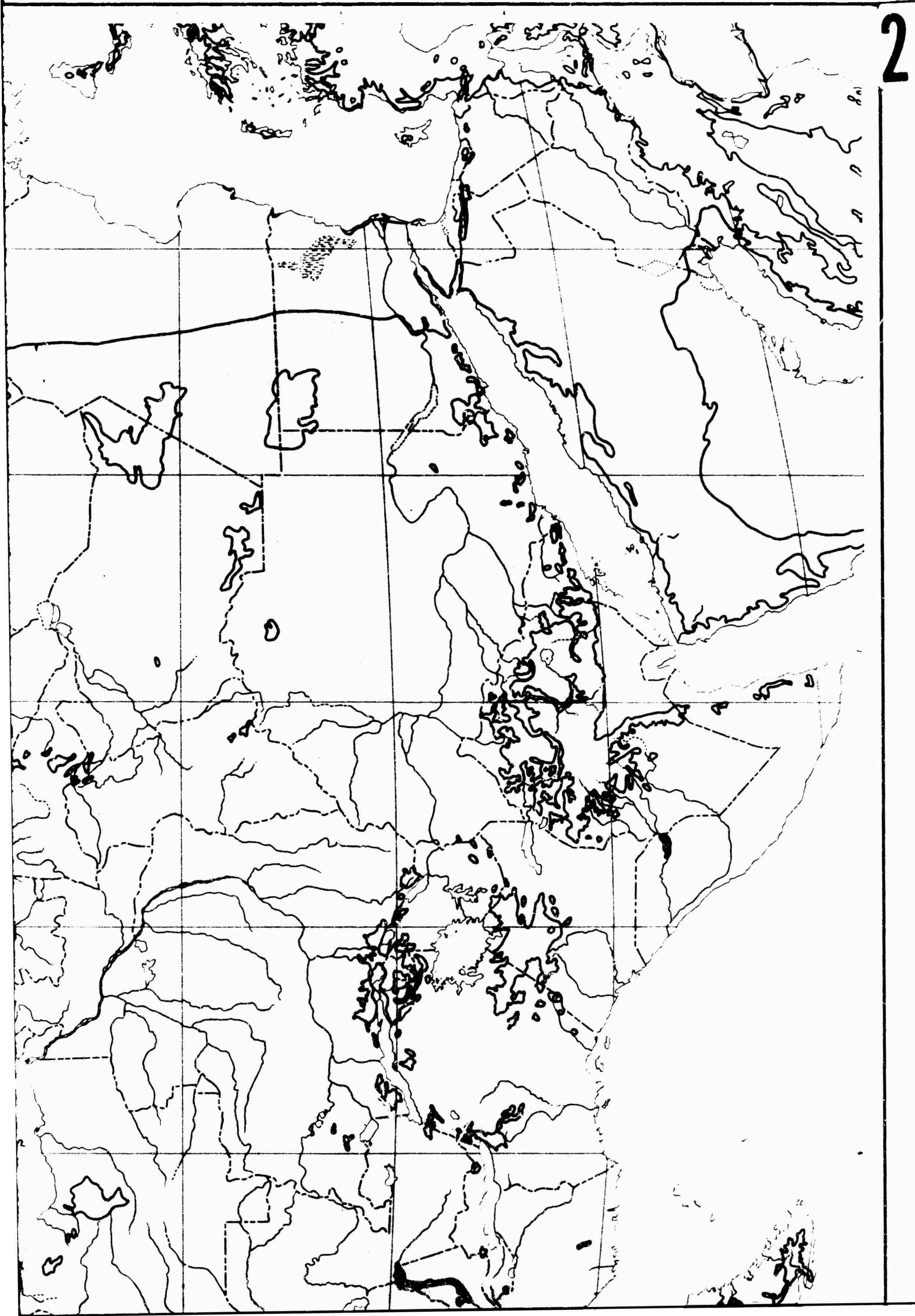
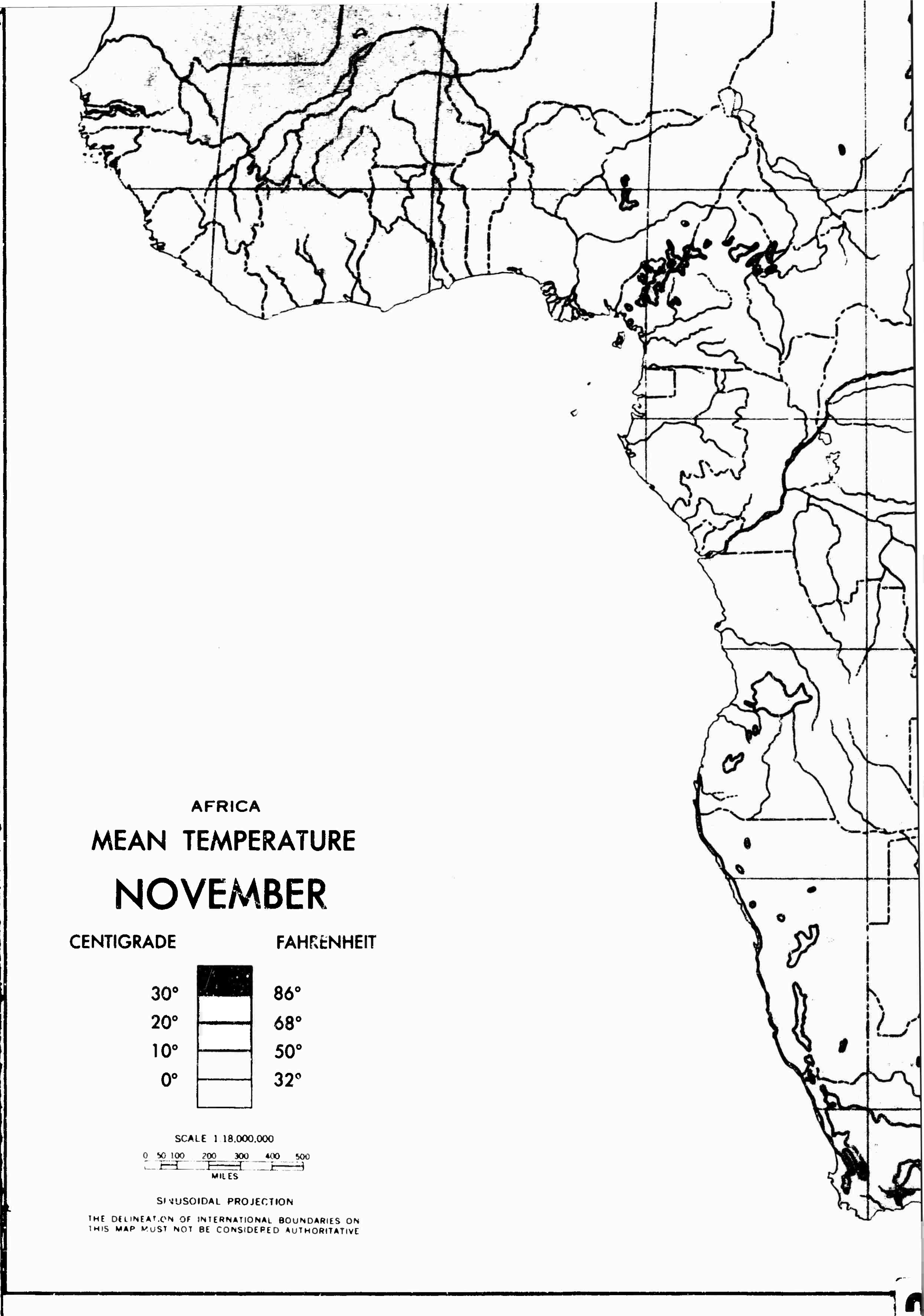
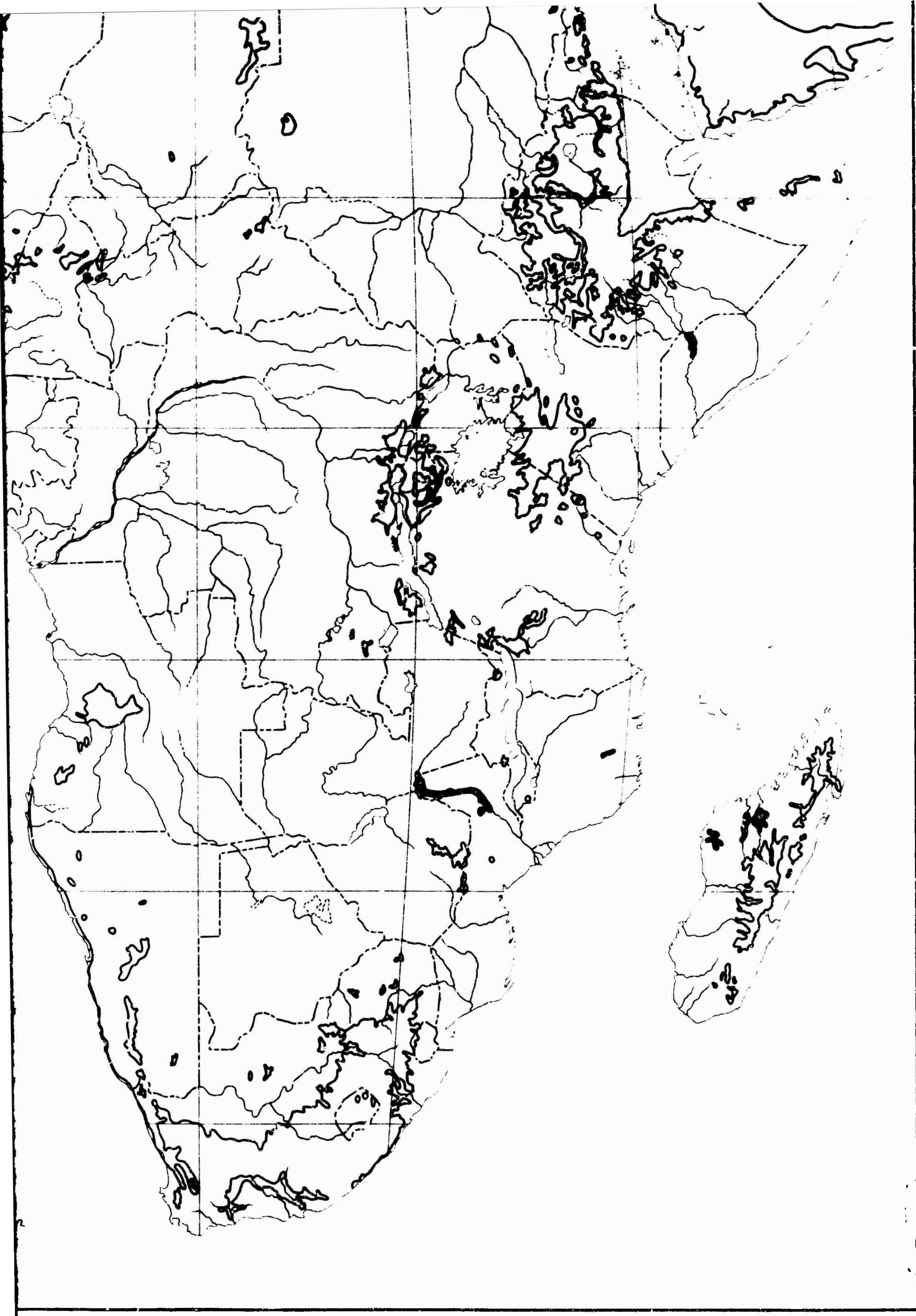


AFRICA




AFRICA
MEAN TEMPERATURE
NOVEMBER
CENTIGRADE
FAHRENHEIT
30°
86°
20°
68°
10°
50°
0°
32°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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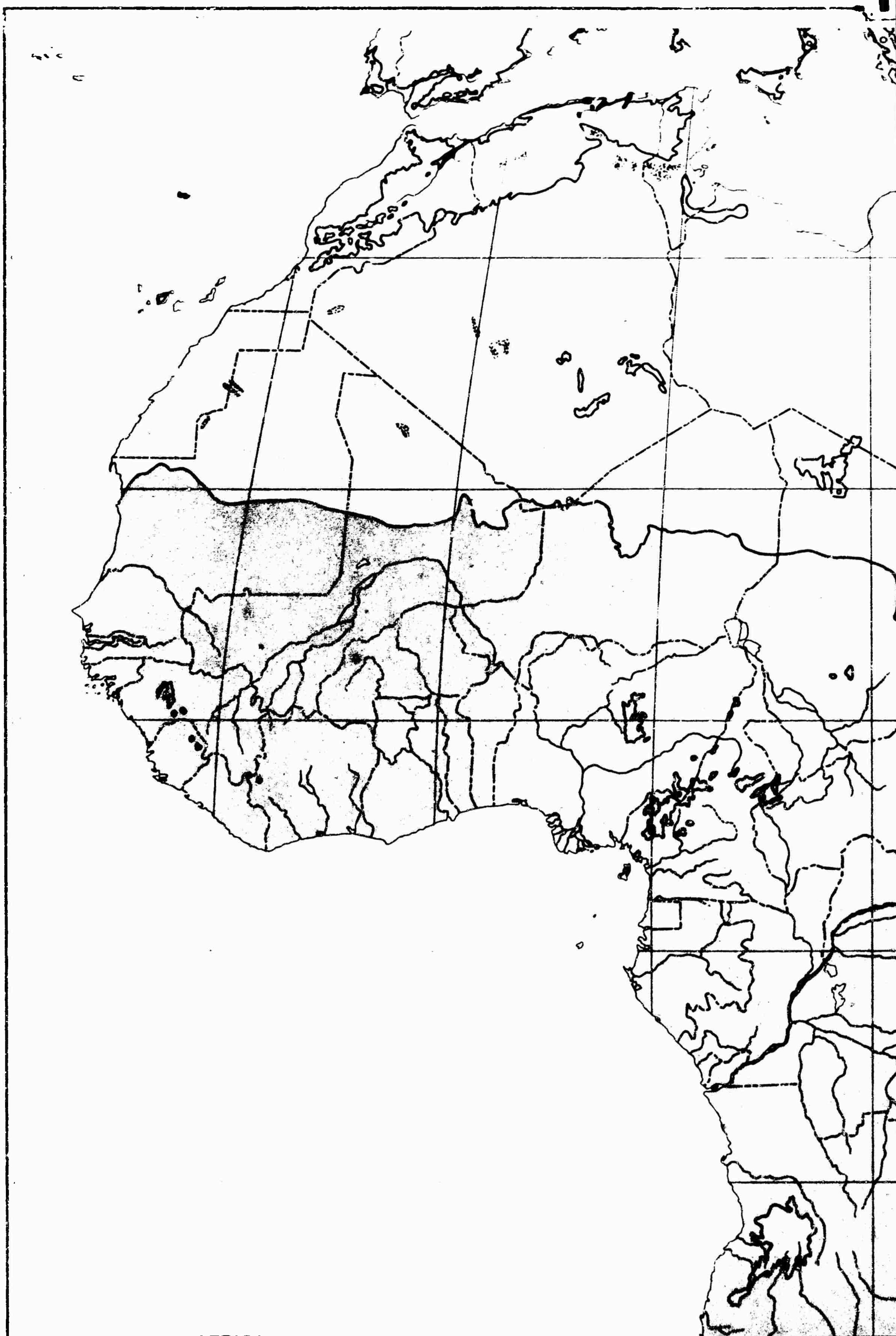
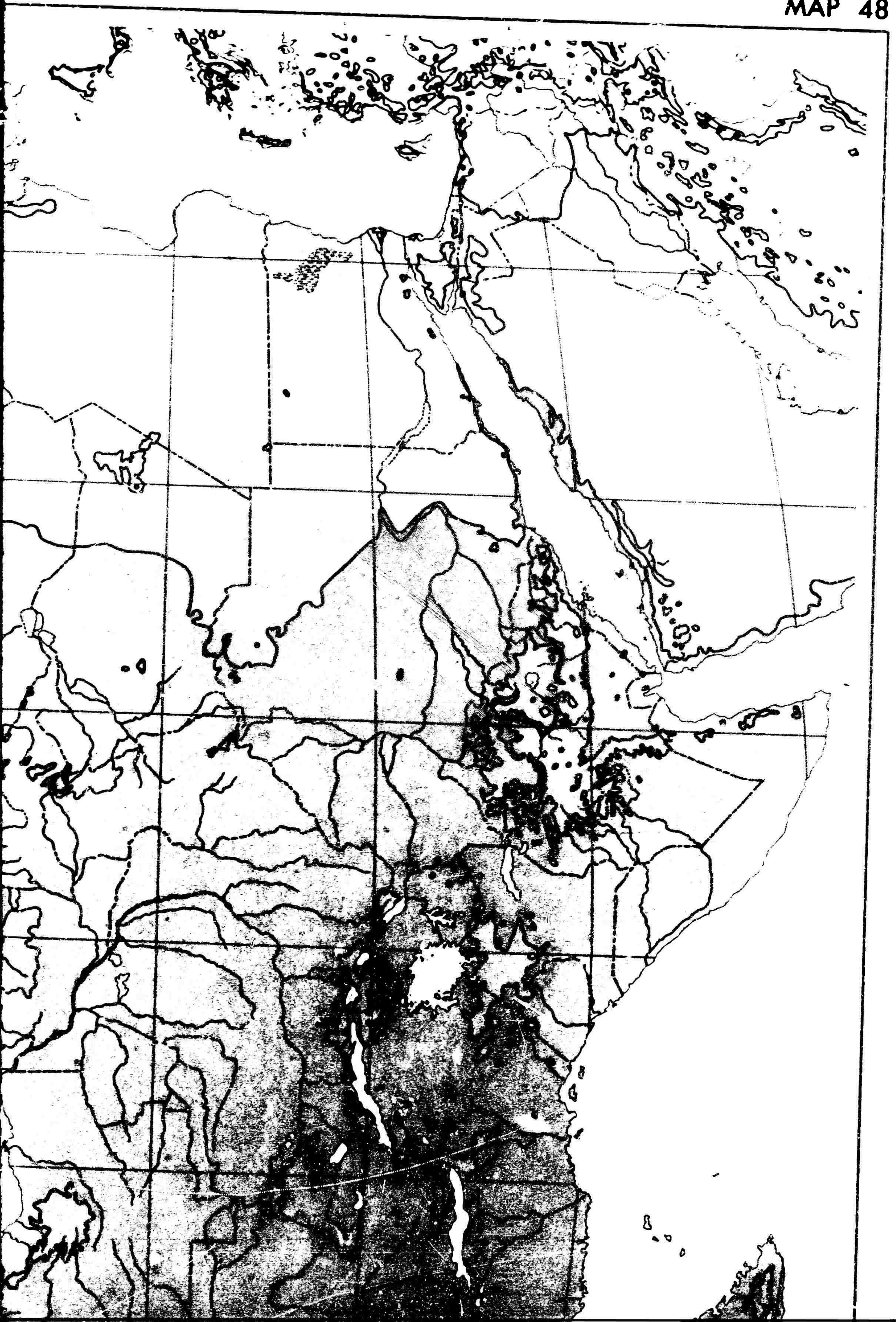
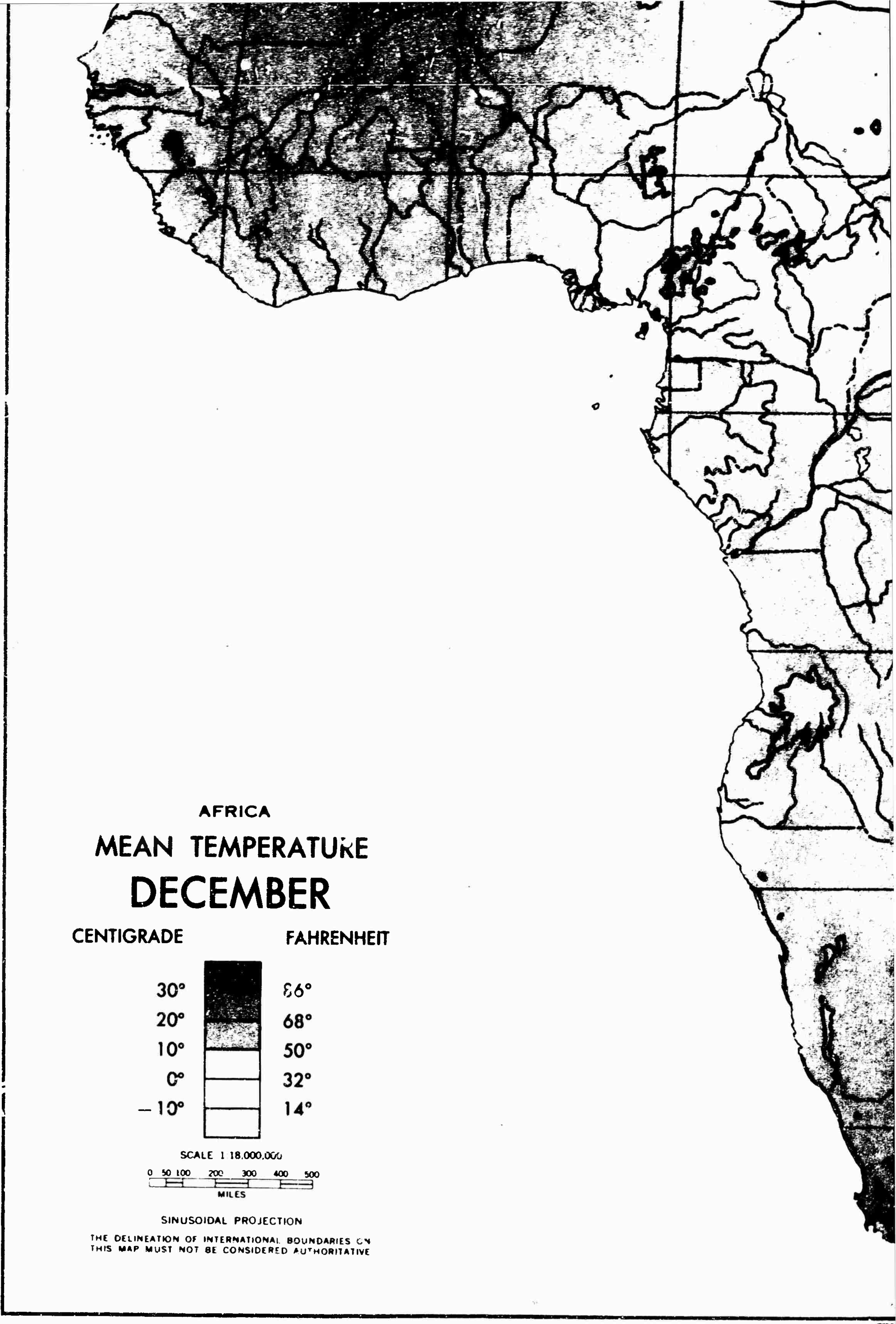
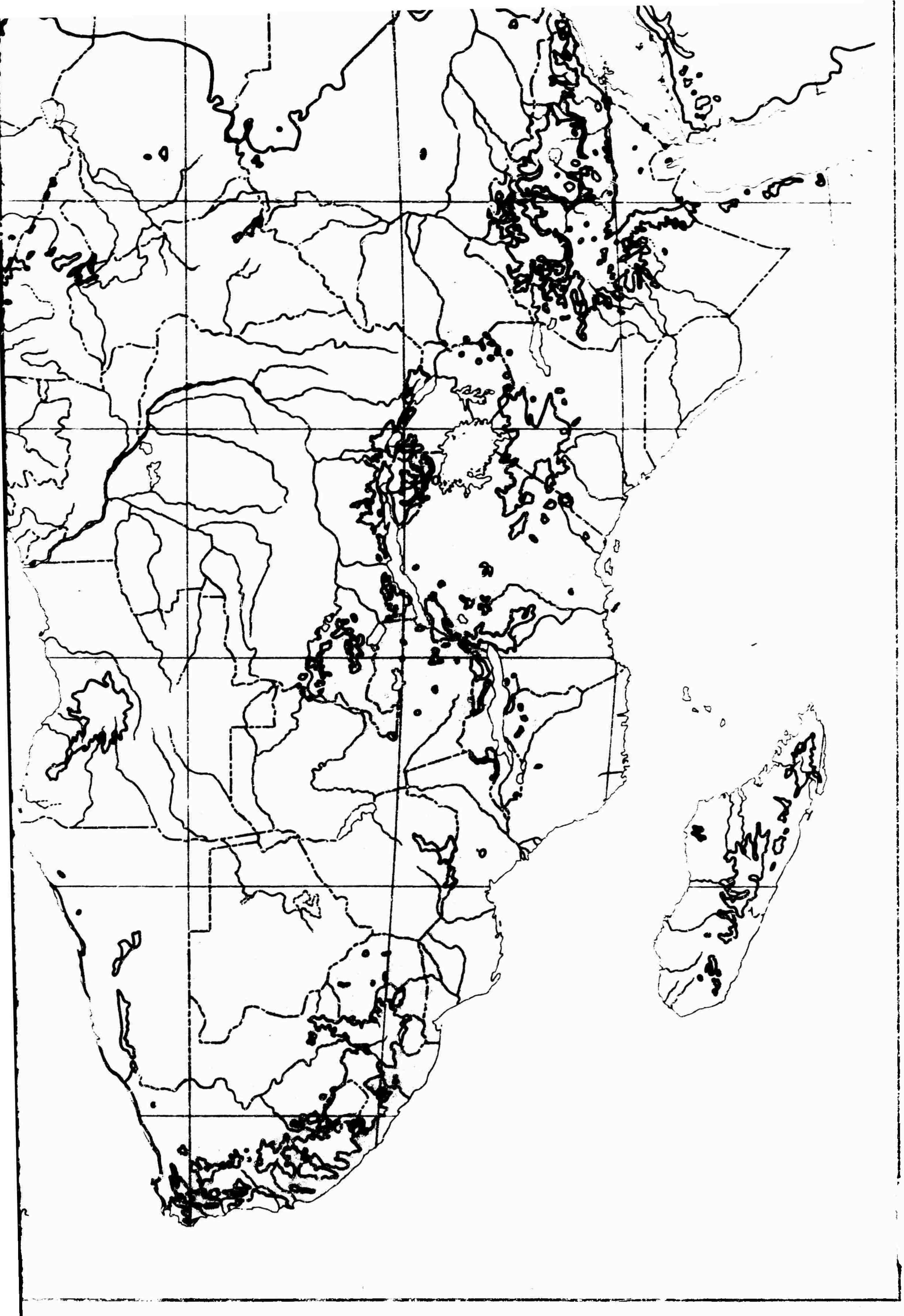


AFRICA




AFRICA
MEAN TEMPERATURE
DECEMBER
CENTIGRADE
FAHRENHEIT
30° 86°
20° 68°
10° 50°
0° 32°
−10° 14°
SCALE 1:18,000,000
0 50 100 200 300 400 500
MILES
SINUSOIDAL PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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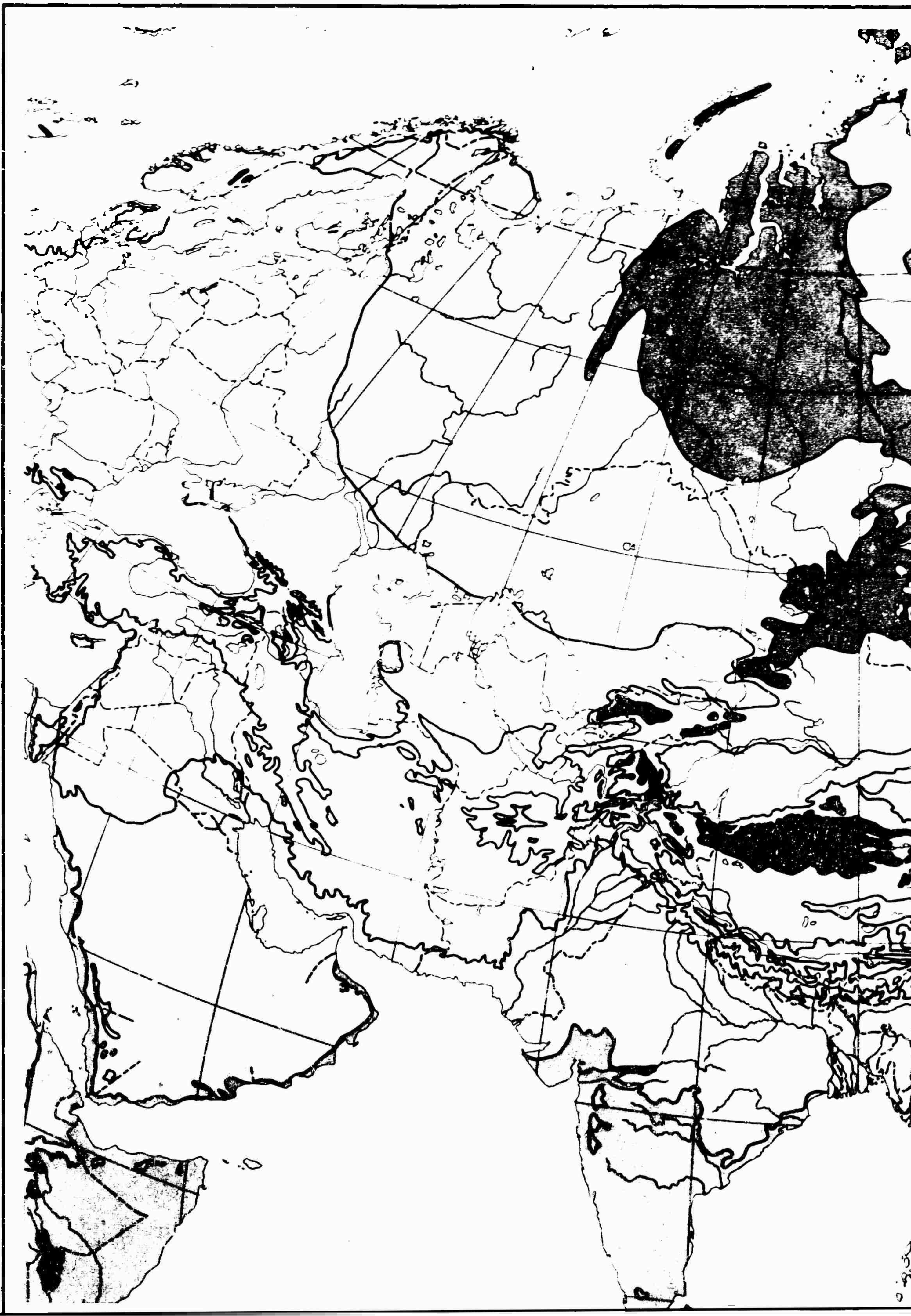
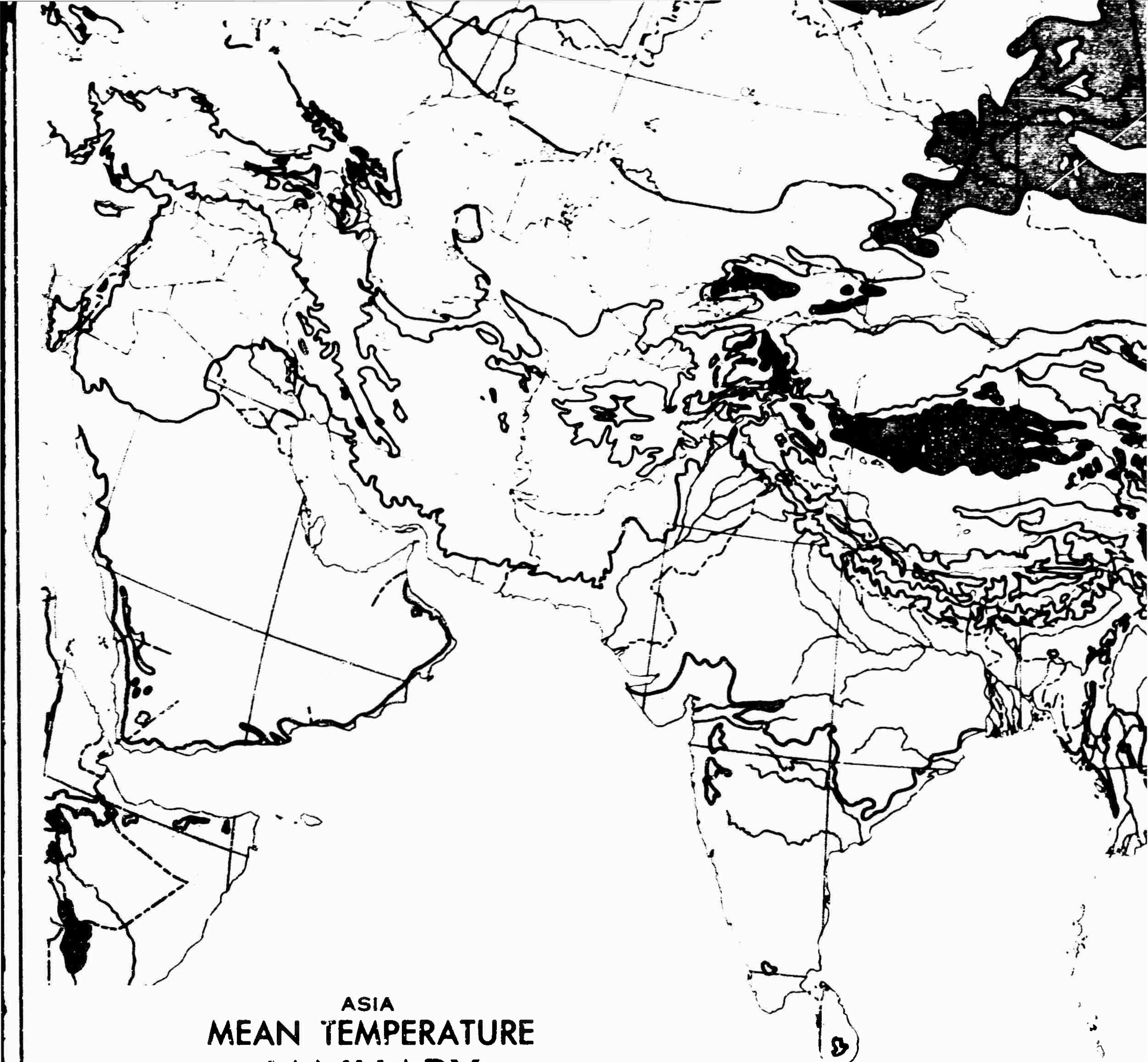


MAP 49



ASIA

MEAN TEMPERATURE

JANUARY

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
– 10°	14°

CENTIGRADE	FAHRENHEIT
– 10°	14°
– 20°	– 4°
– 30°	– 22°
– 40°	– 40°
– 50°	– 58°

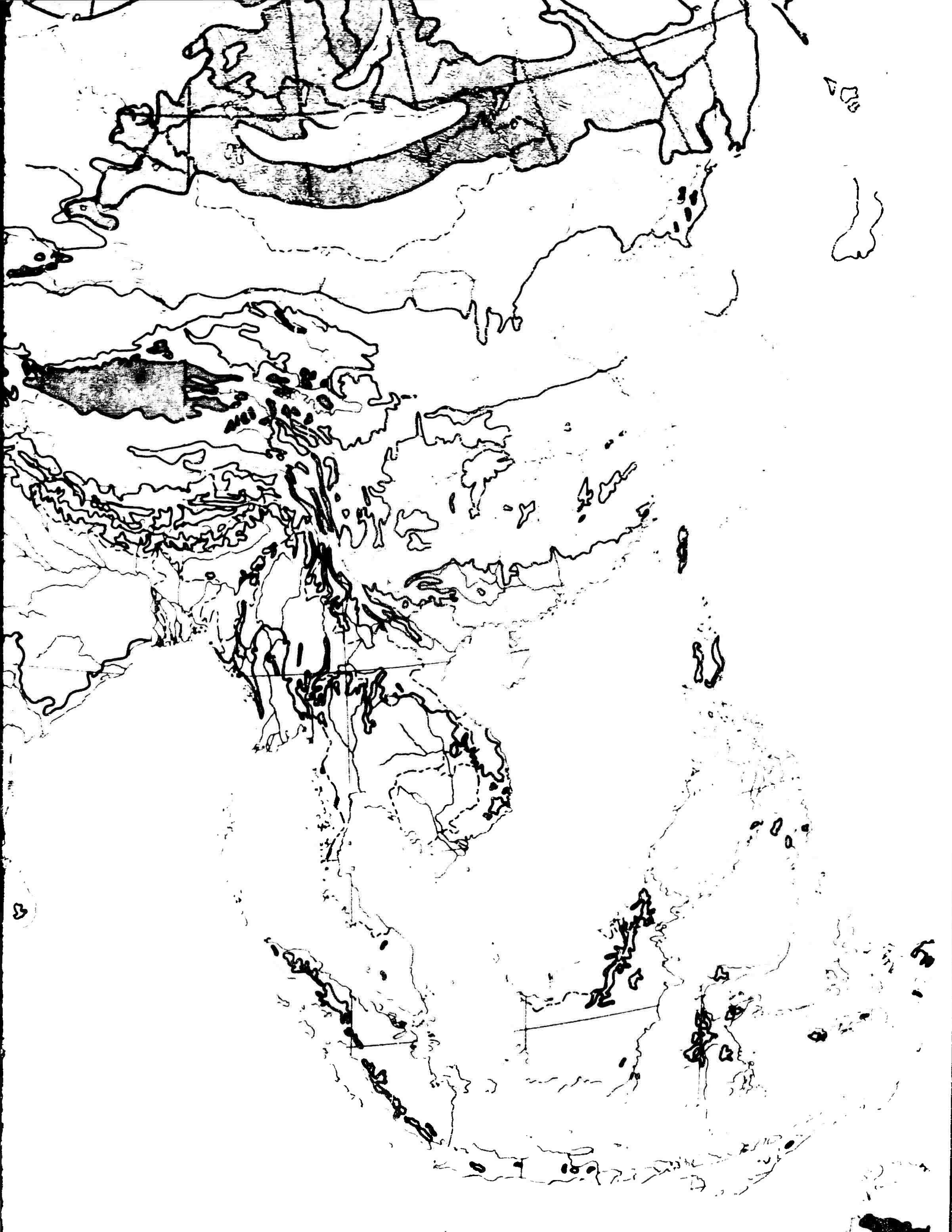
SCALE 1:24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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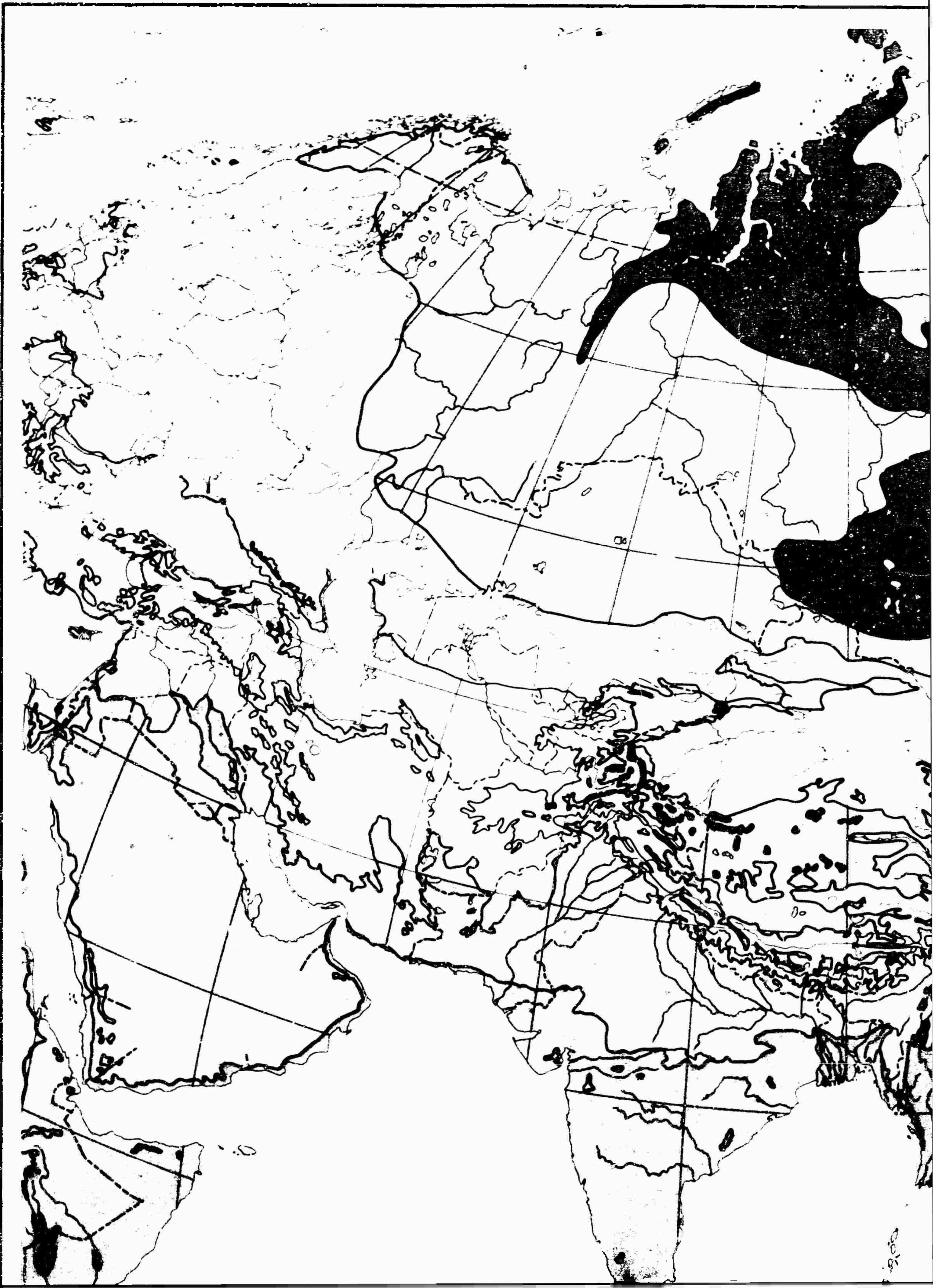
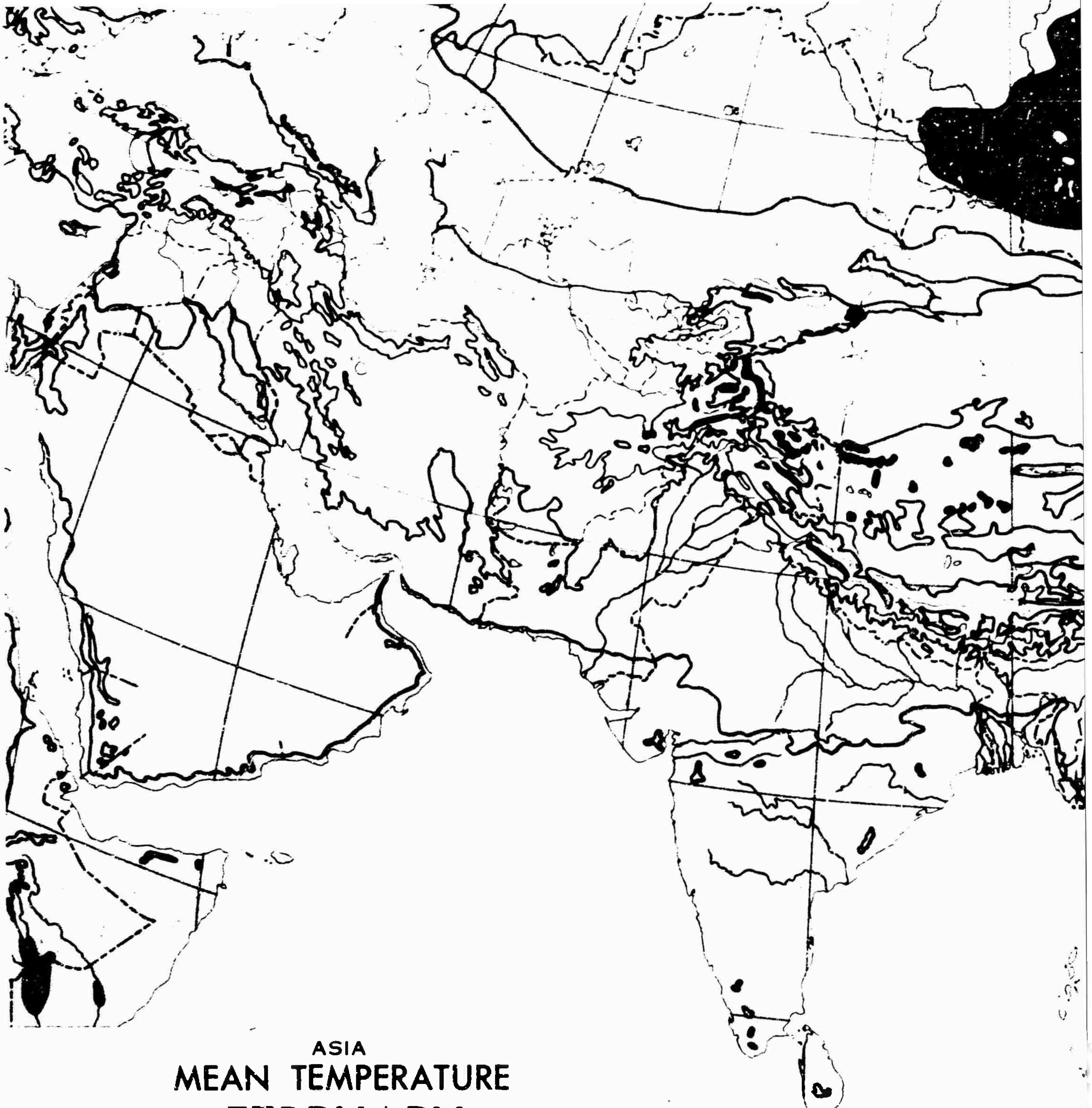


MAP 50



ASIA
MEAN TEMPERATURE
FEBRUARY

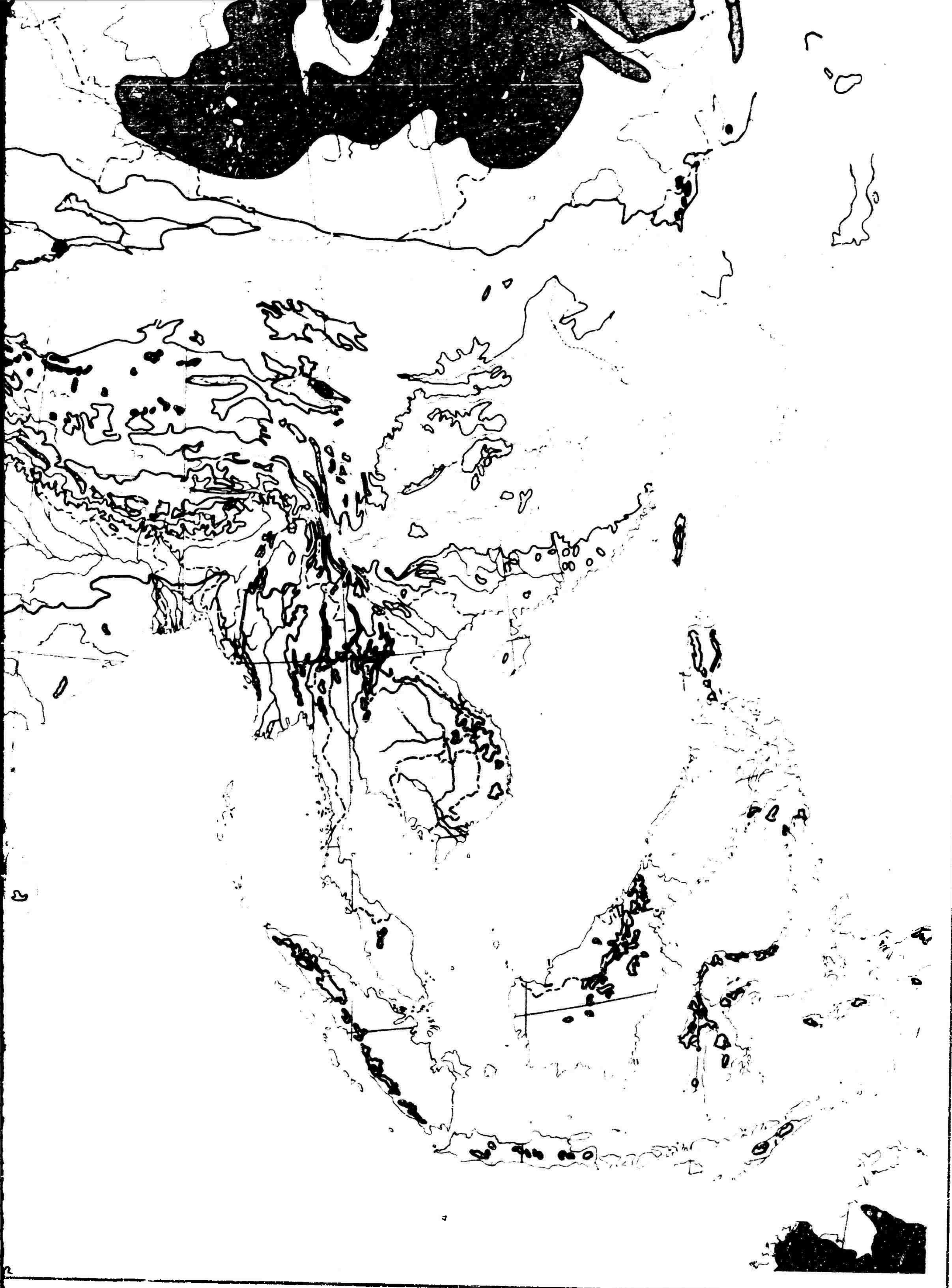
CENTIGRADE	FAHRENHEIT	CENTIGRADE	FAHRENHEIT
30°	86°	– 10°	14°
20°	68°	– 20°	– 4°
10°	50°	– 30°	– 22°
0°	32°	– 40°	– 40°
– 10°	14°		

SCALE 1 24 000,000

0 100 200 300 400 500
MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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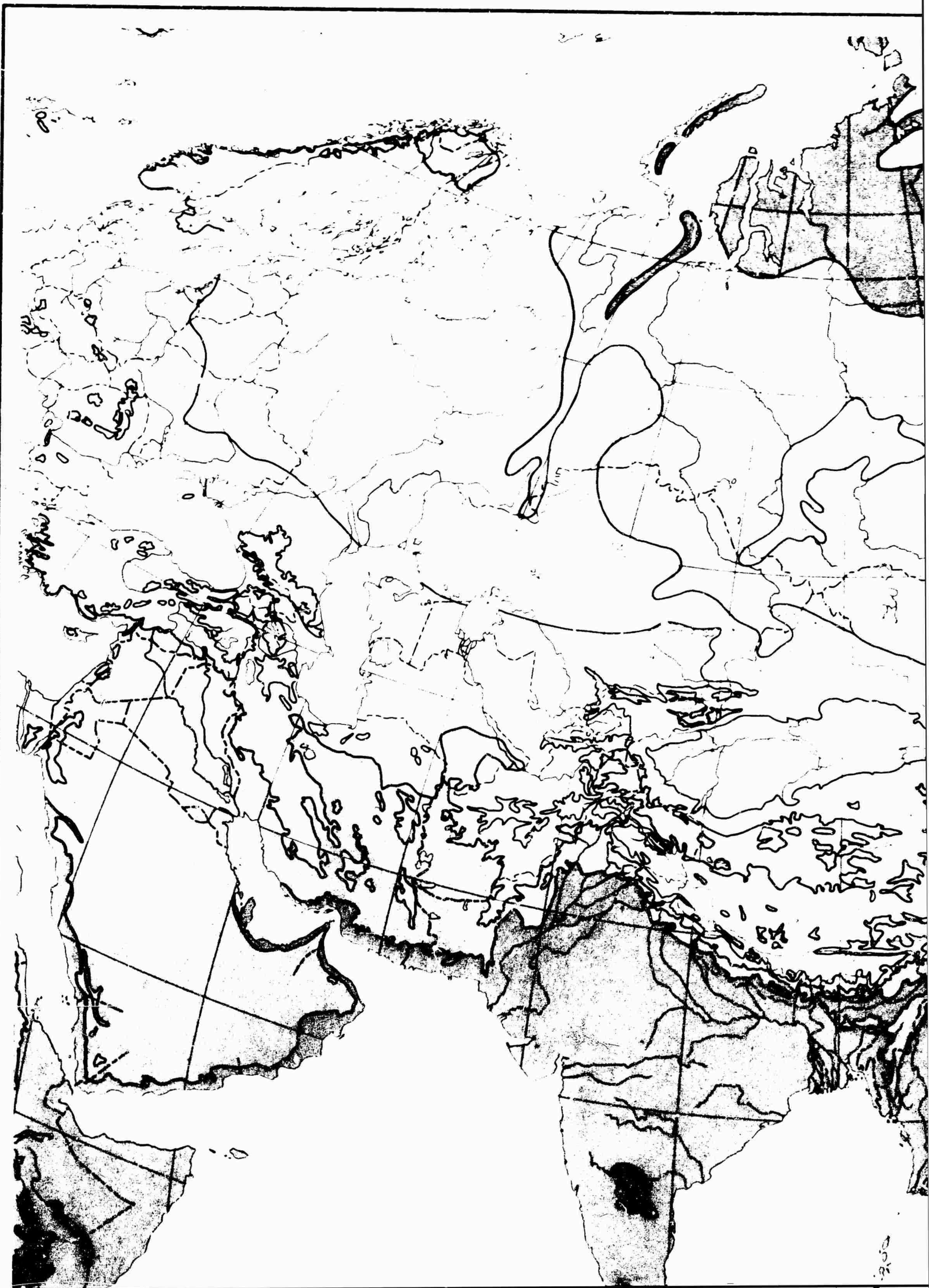

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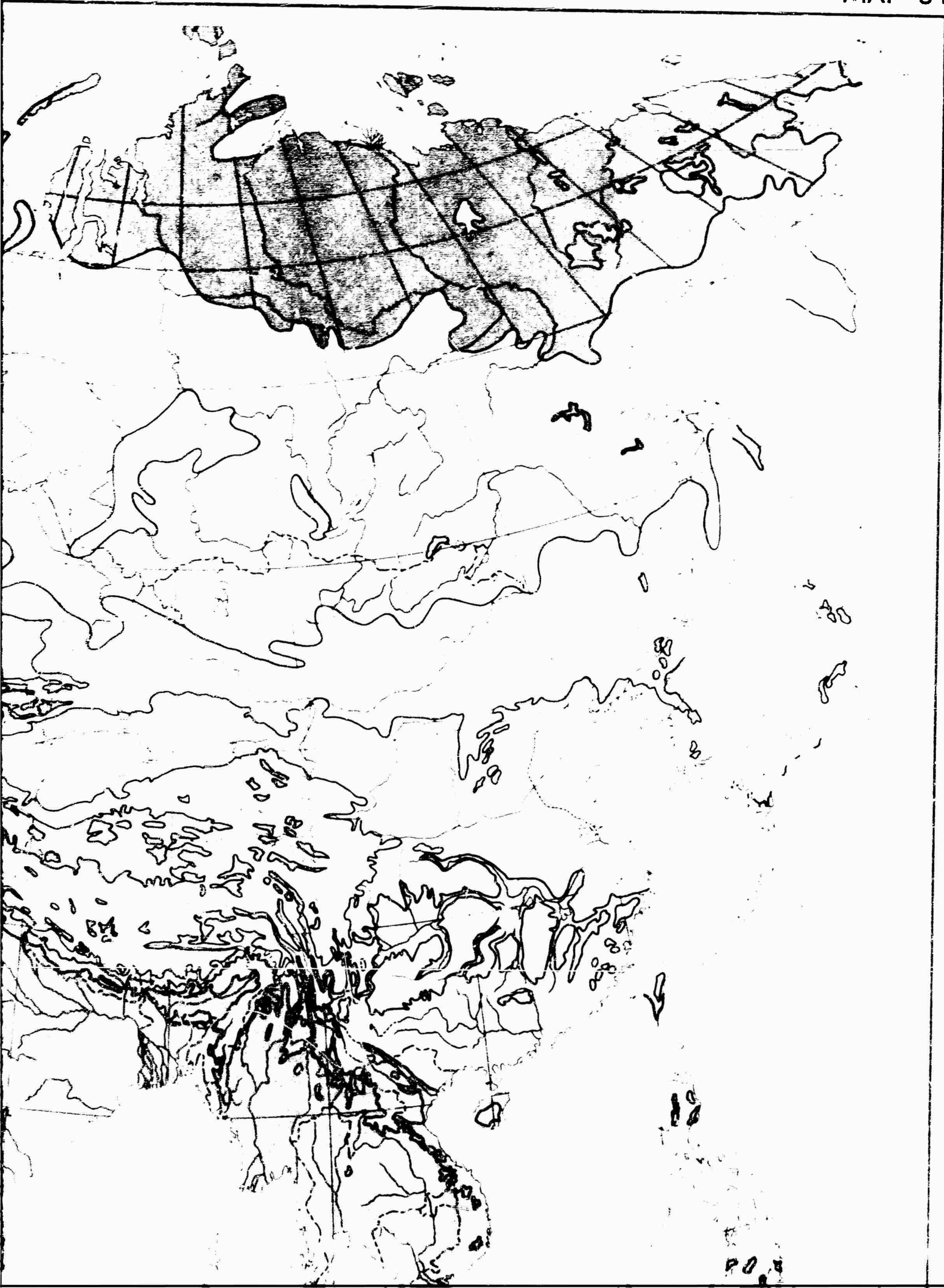
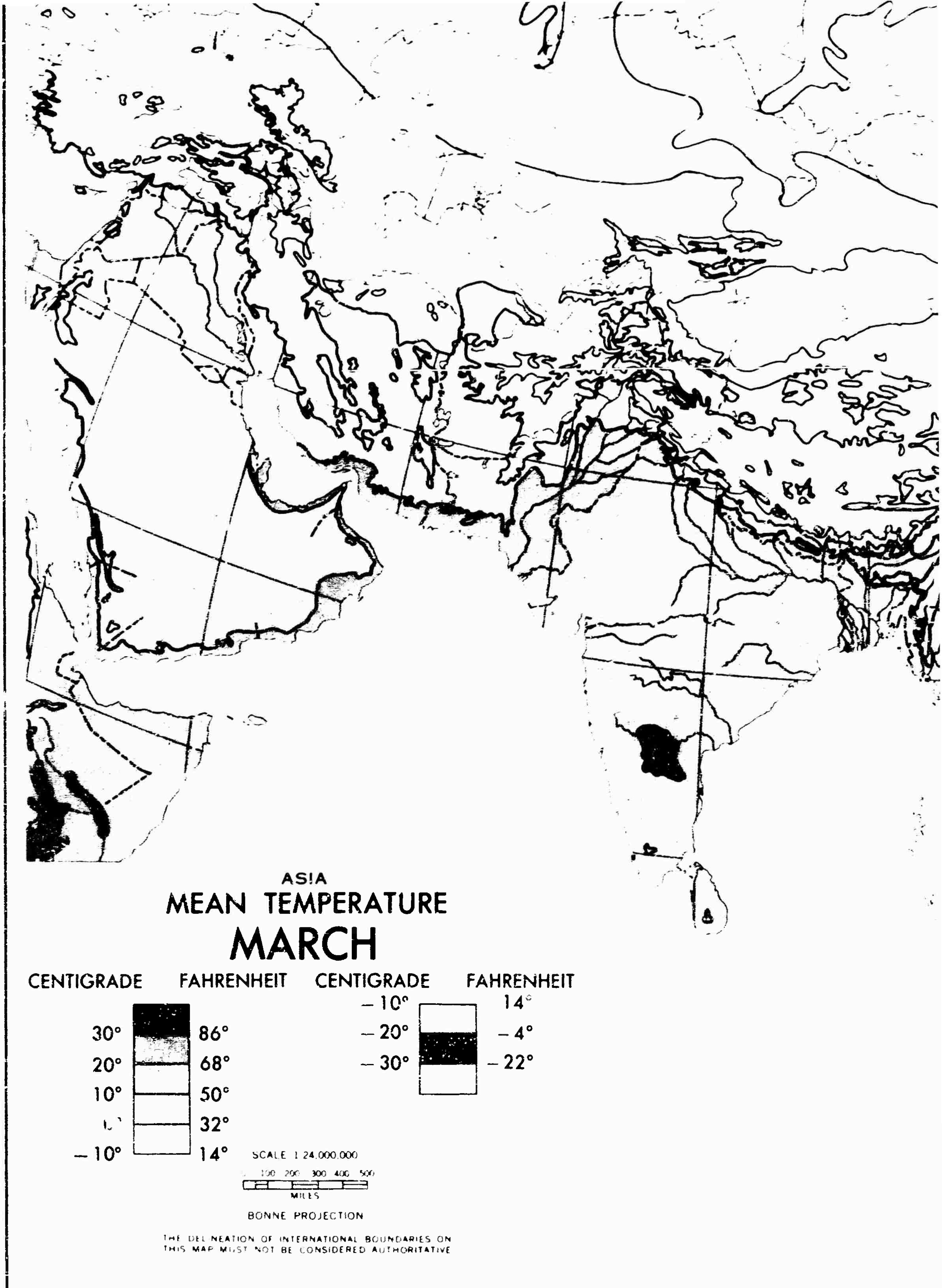
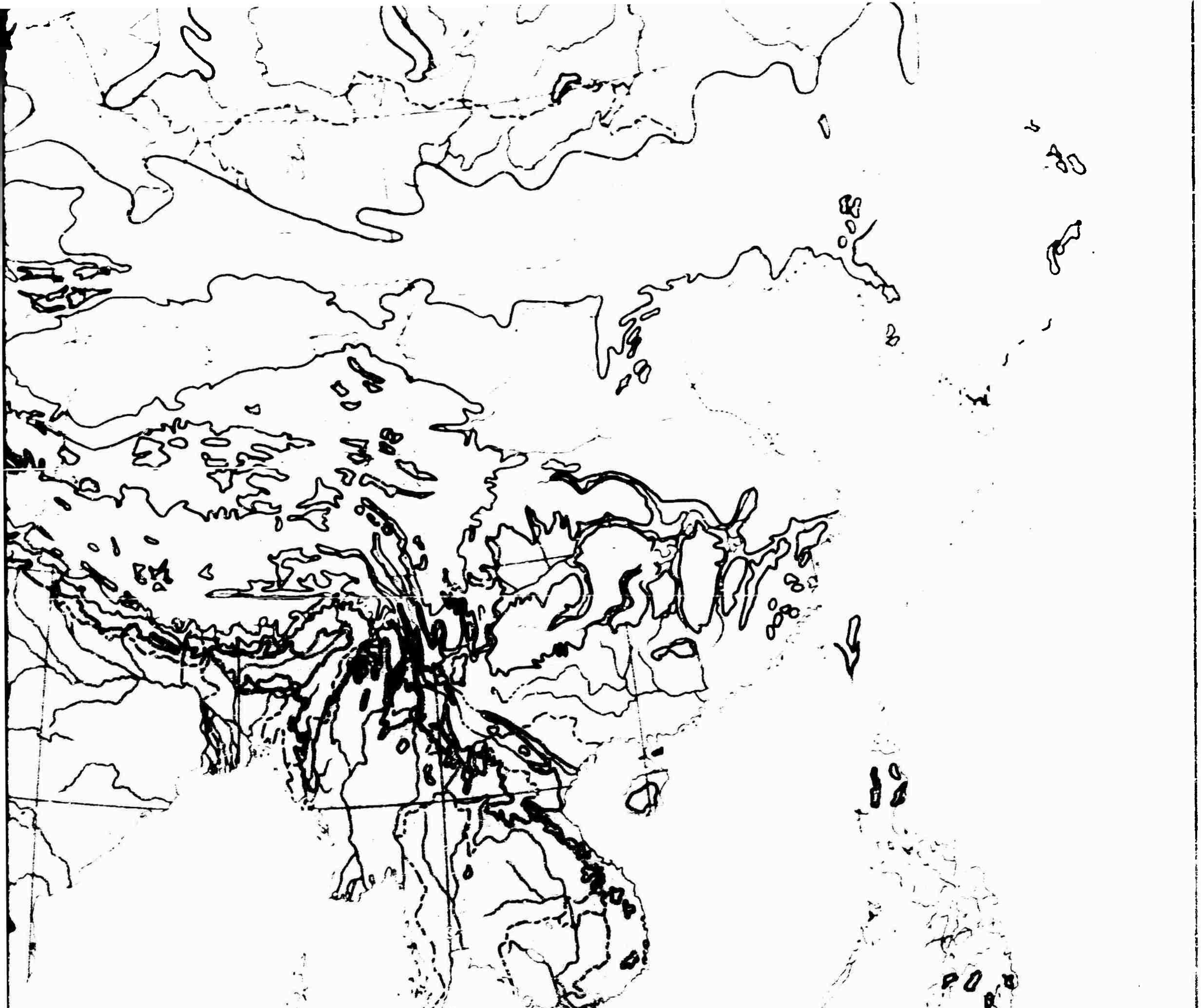
MAP 51




ASIA
MEAN TEMPERATURE
MARCH
CENTIGRADE
FAHRENHEIT
CENTIGRADE
FAHRENHEIT
30° 86°
20° 68°
10° 50°
32°
–10° 14°
–10° 14°
–20° –4°
–30° –22°
SCALE 1:24,000,000
100 200 300 400 500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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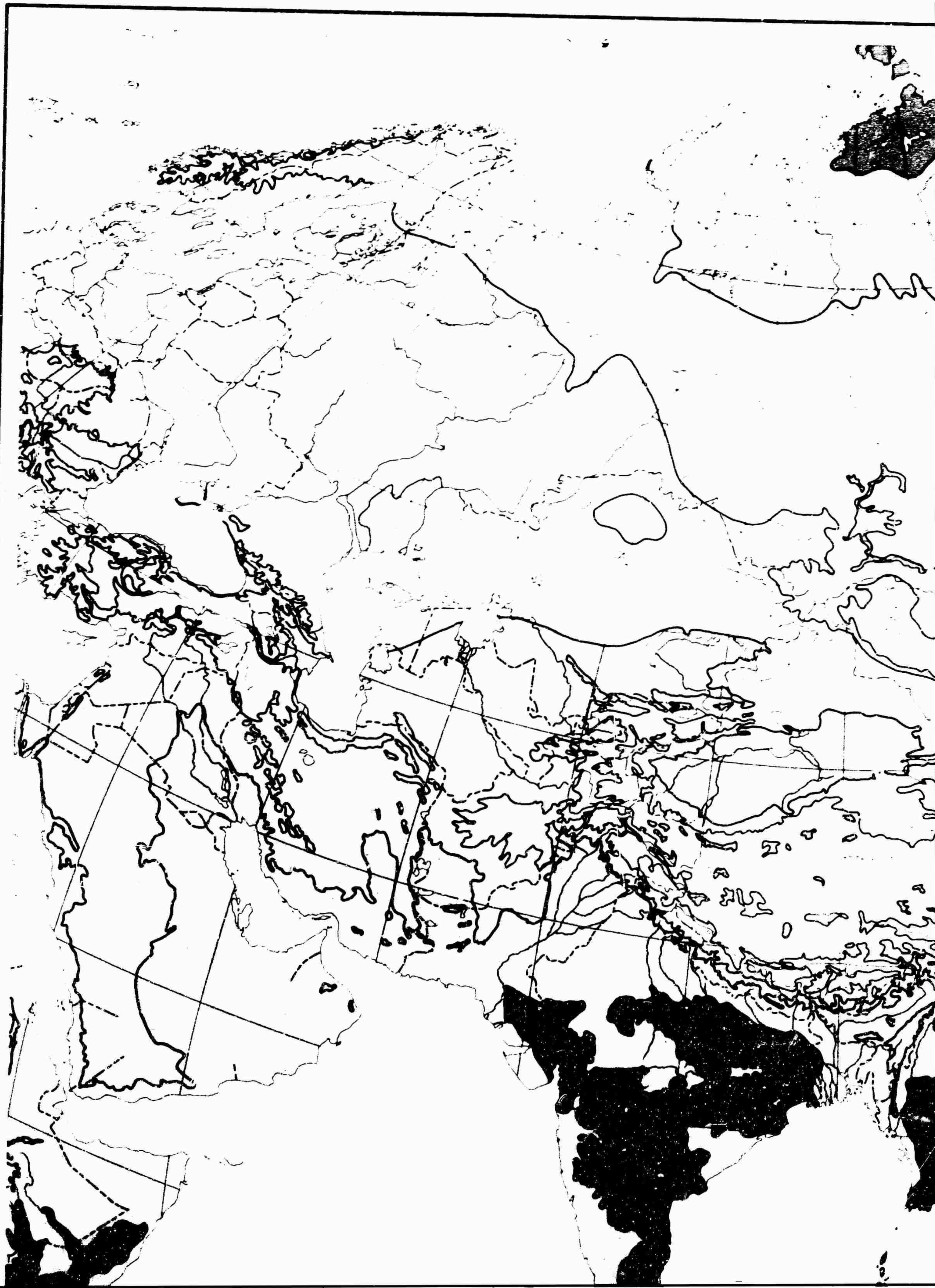
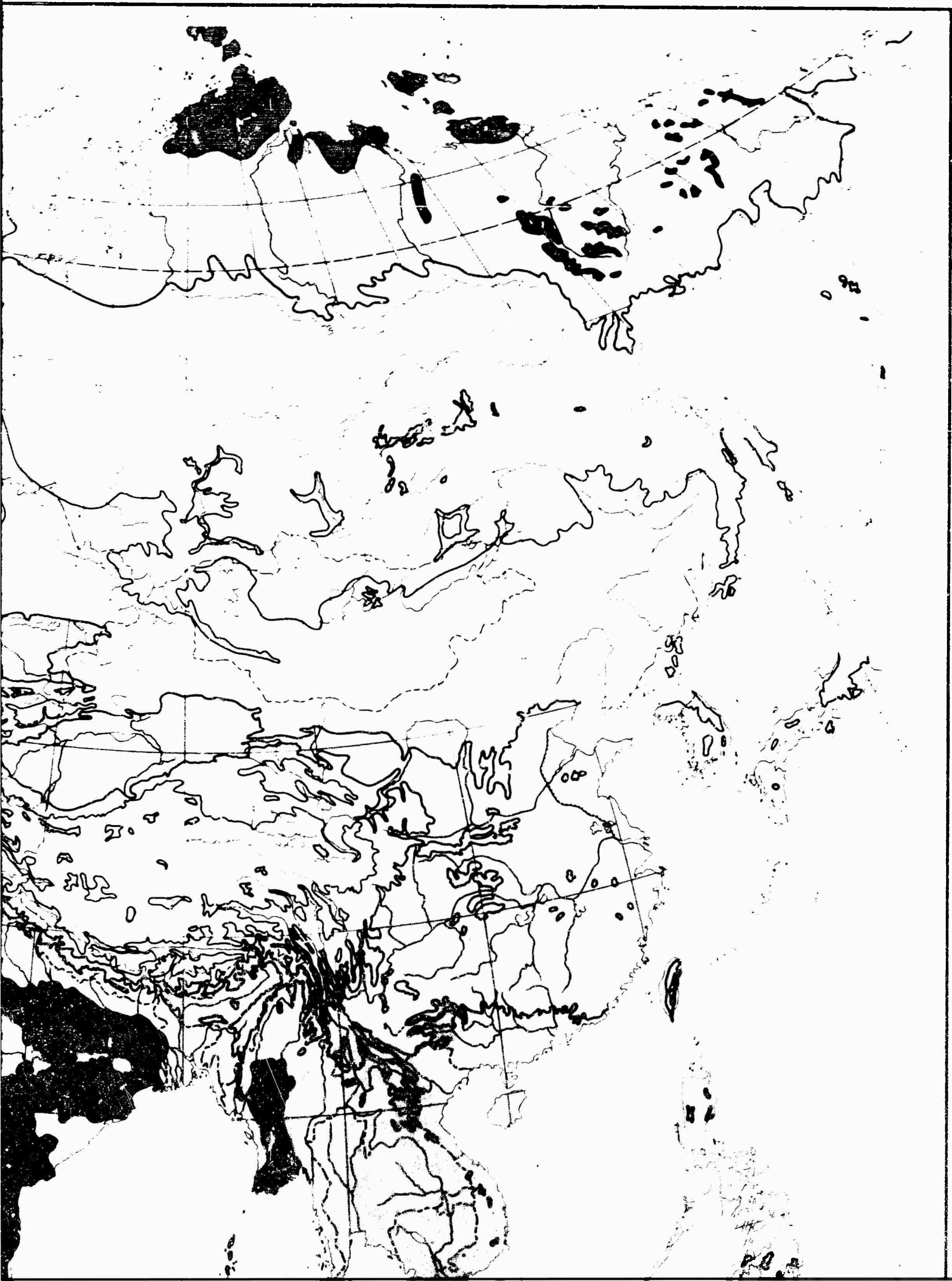
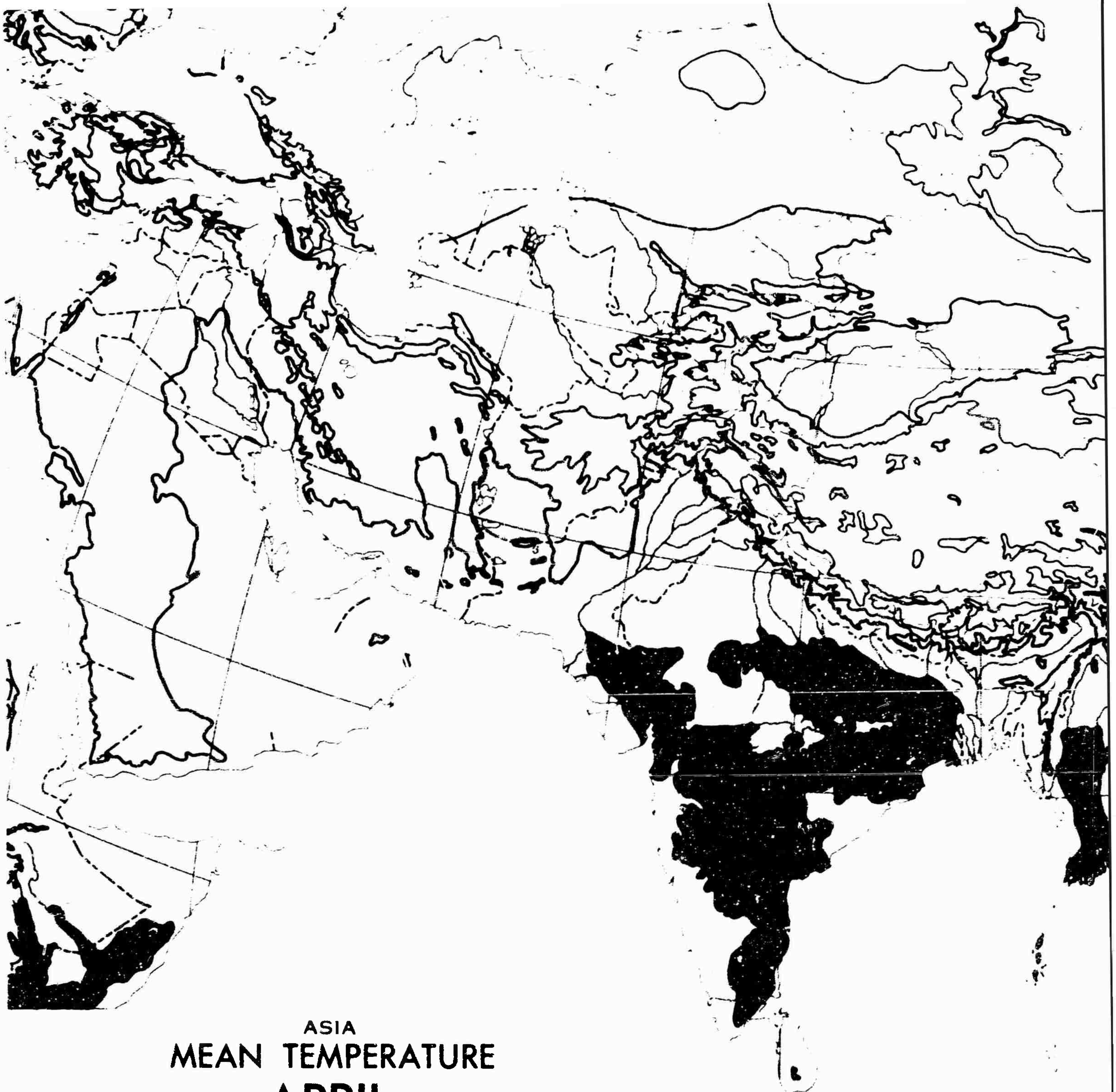






ASIA

MEAN TEMPERATURE

APRIL

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
– 10°	14°

CENTIGRADE	FAHRENHEIT
– 10°	14°
– 20°	– 4°

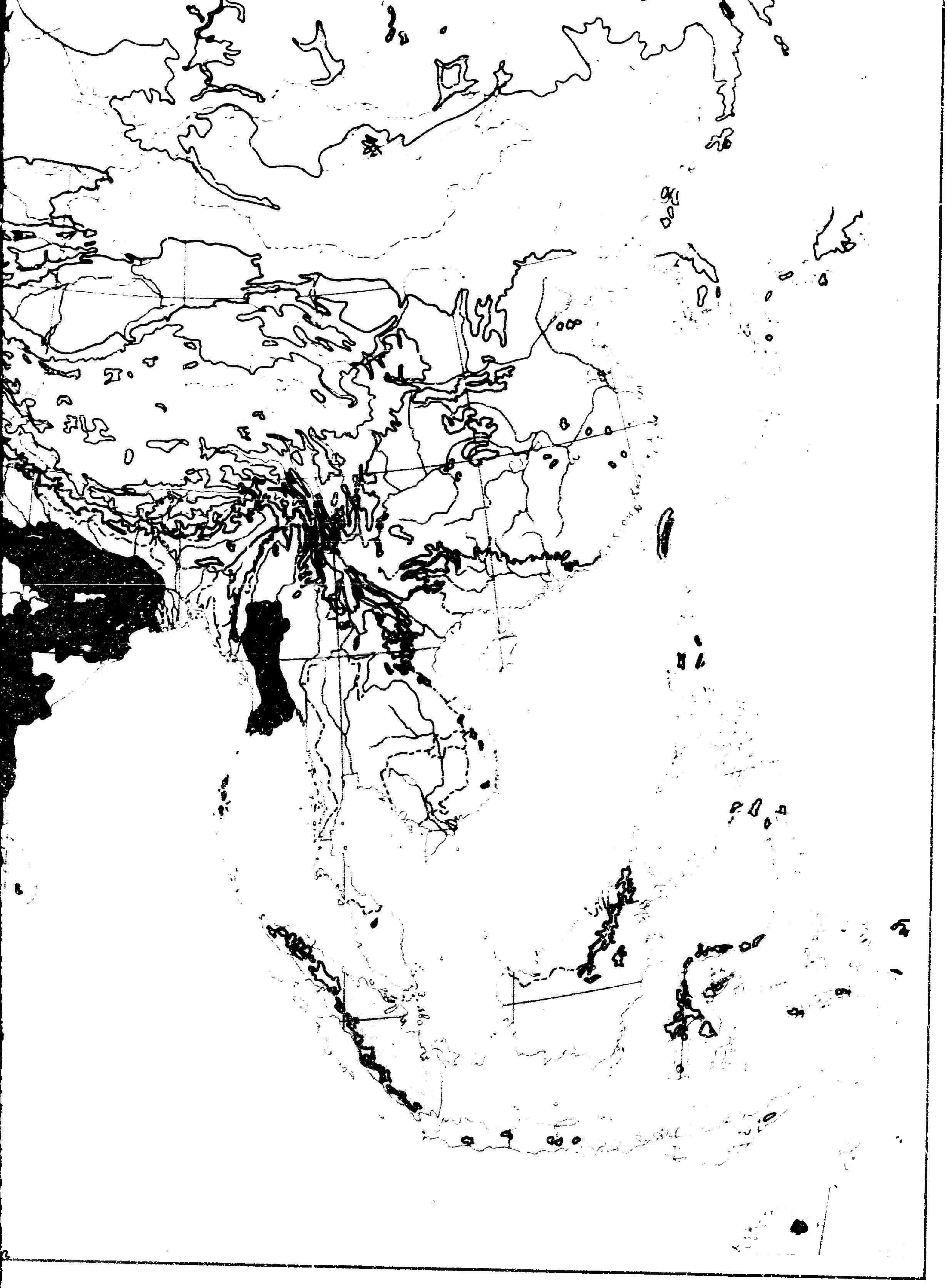
SCALE 1:24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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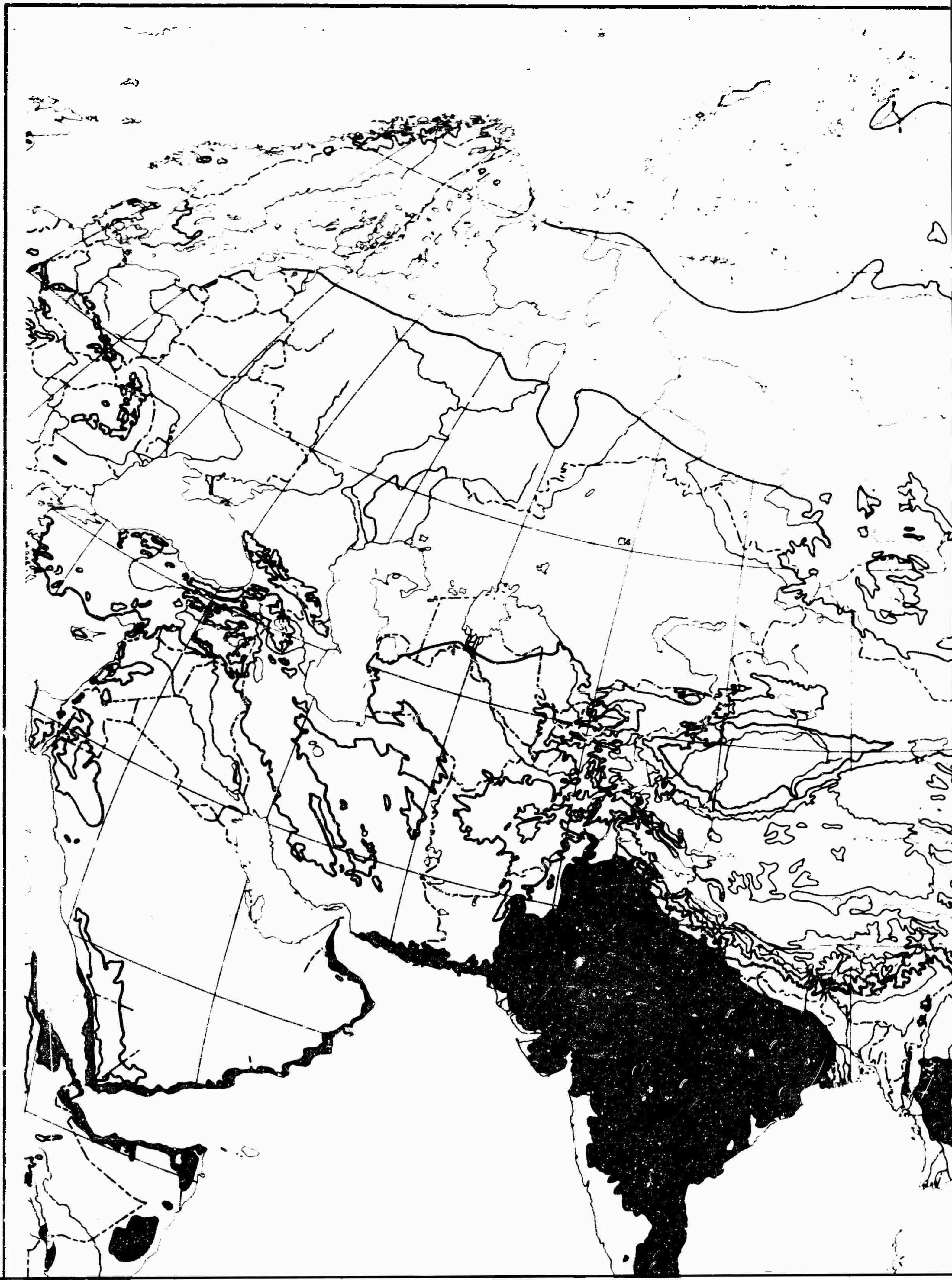
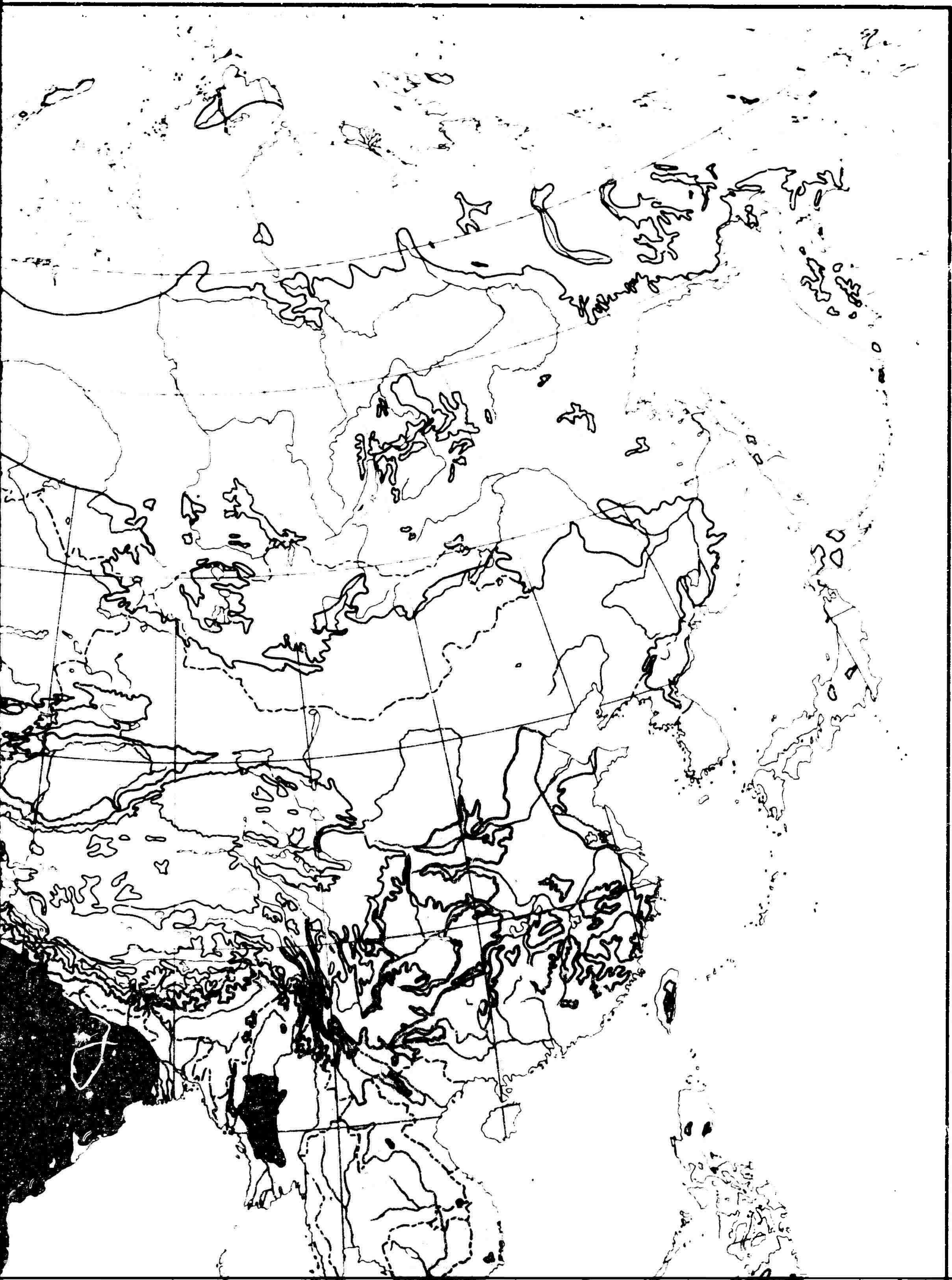
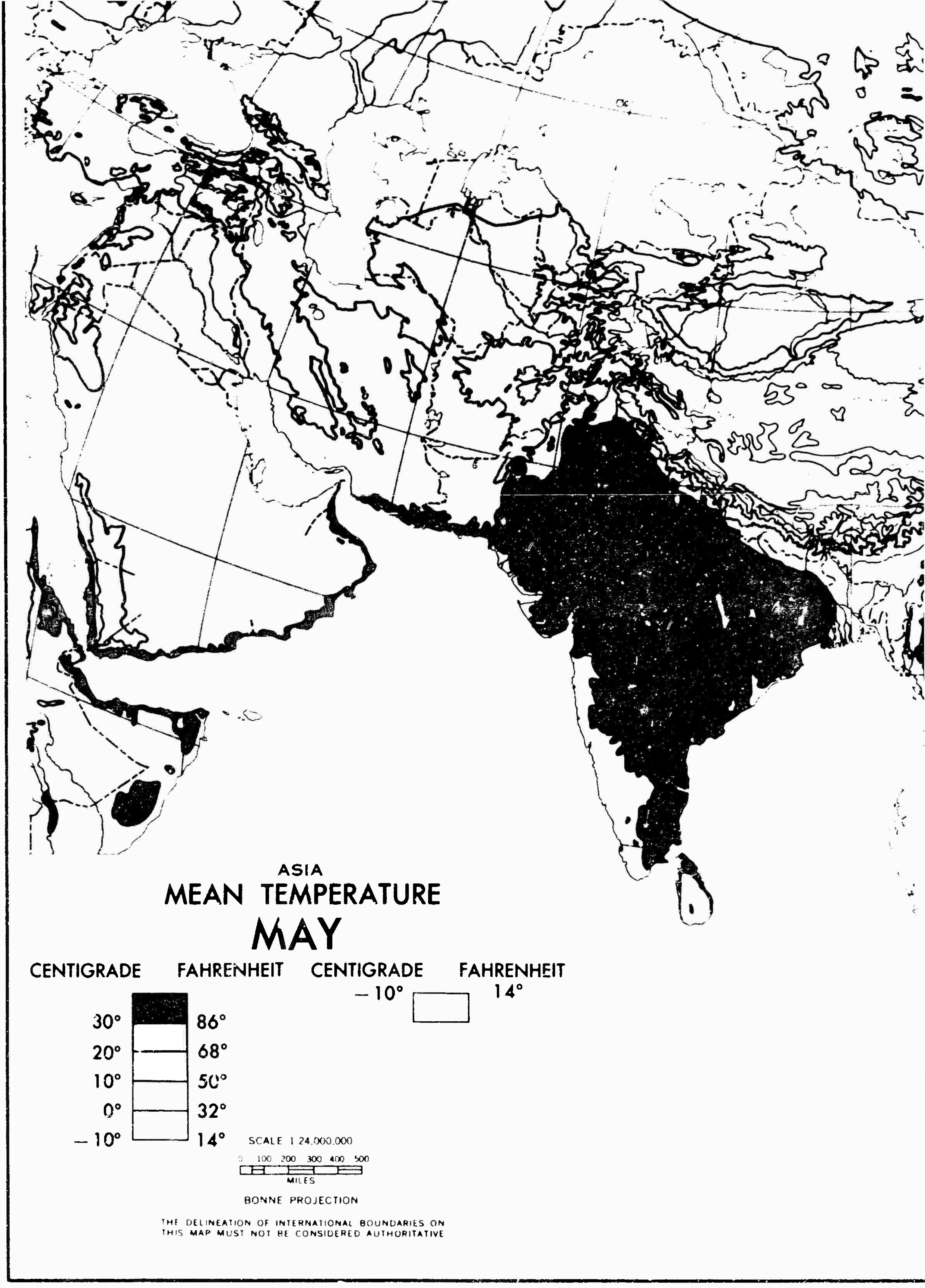
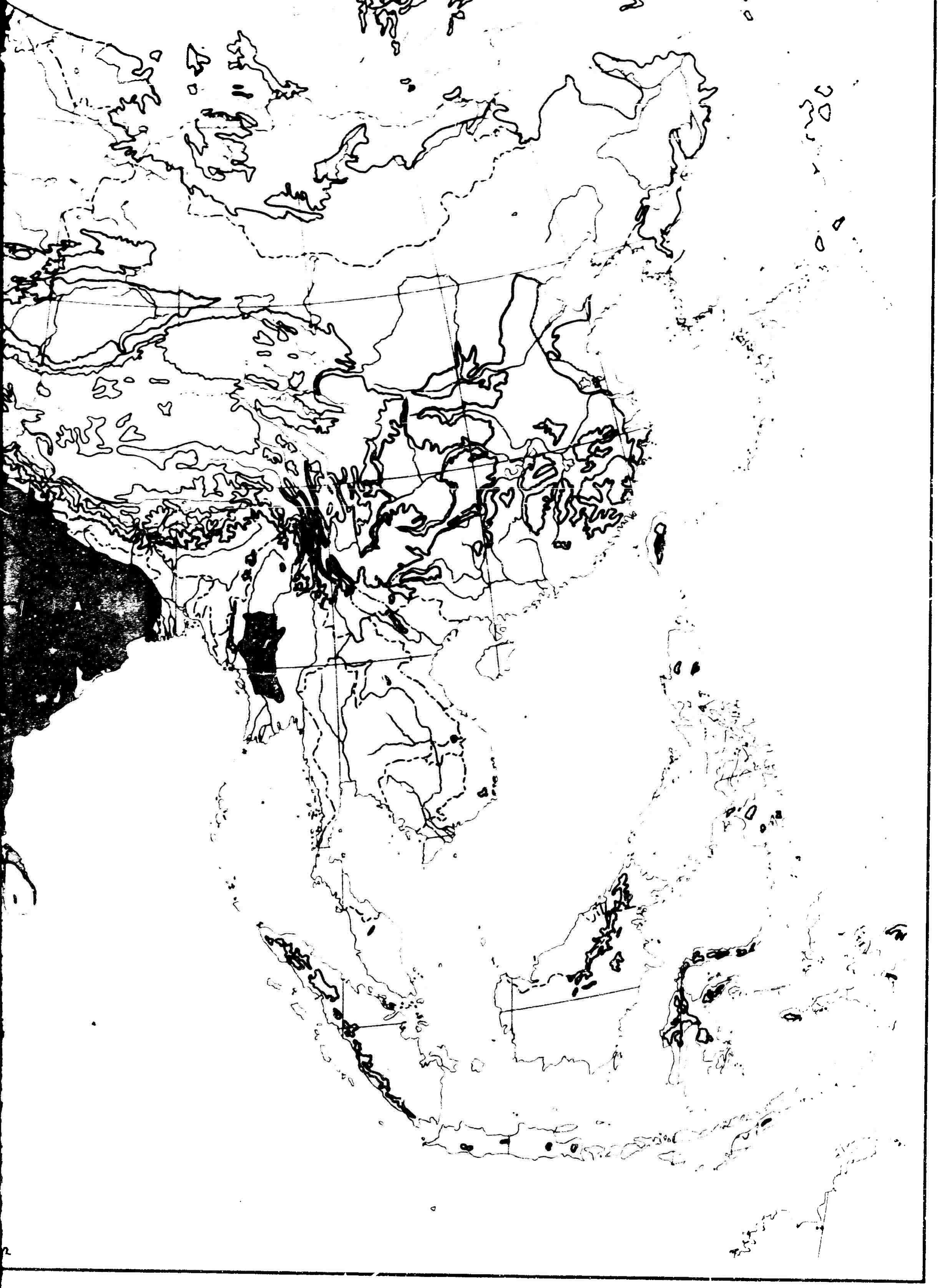





ASIA
MEAN TEMPERATURE
MAY
CENTIGRADE
FAHRENHEIT
CENTIGRADE
FAHRENHEIT
– 10°
14°
30°
86°
20°
68°
10°
50°
0°
32°
– 10°
14°
SCALE 1 24,000,000
0 100 200 300 400 500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON
THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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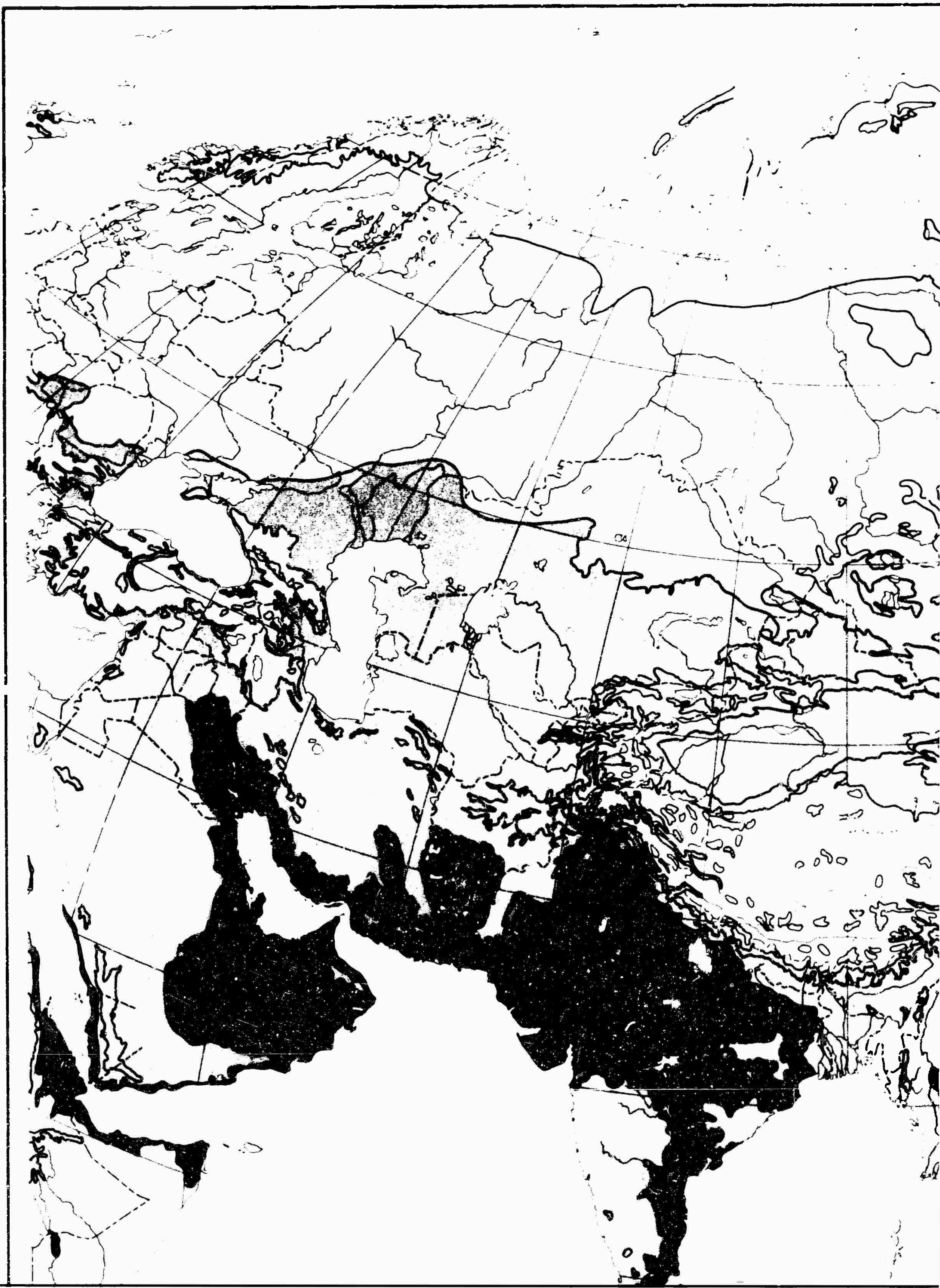
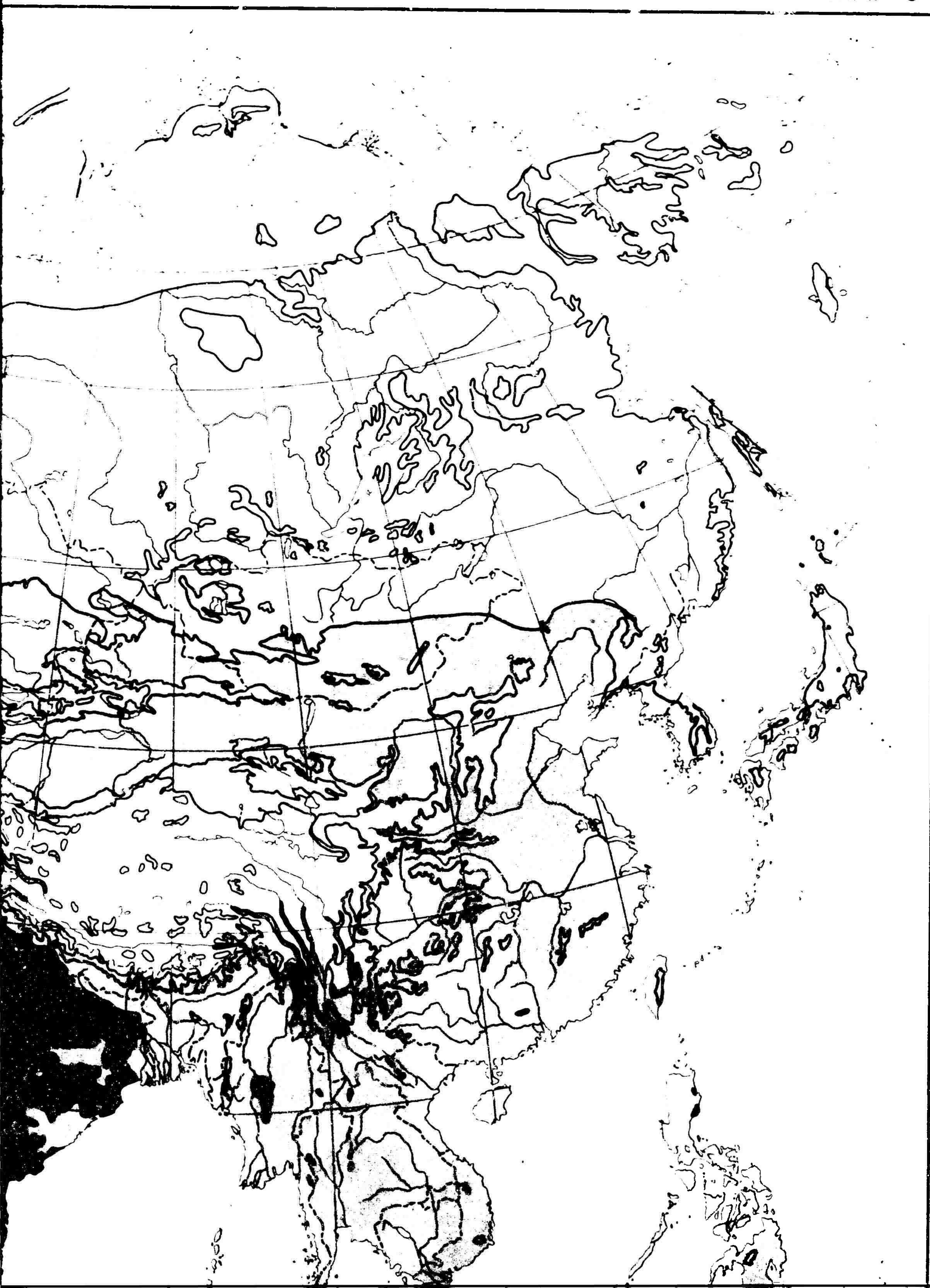
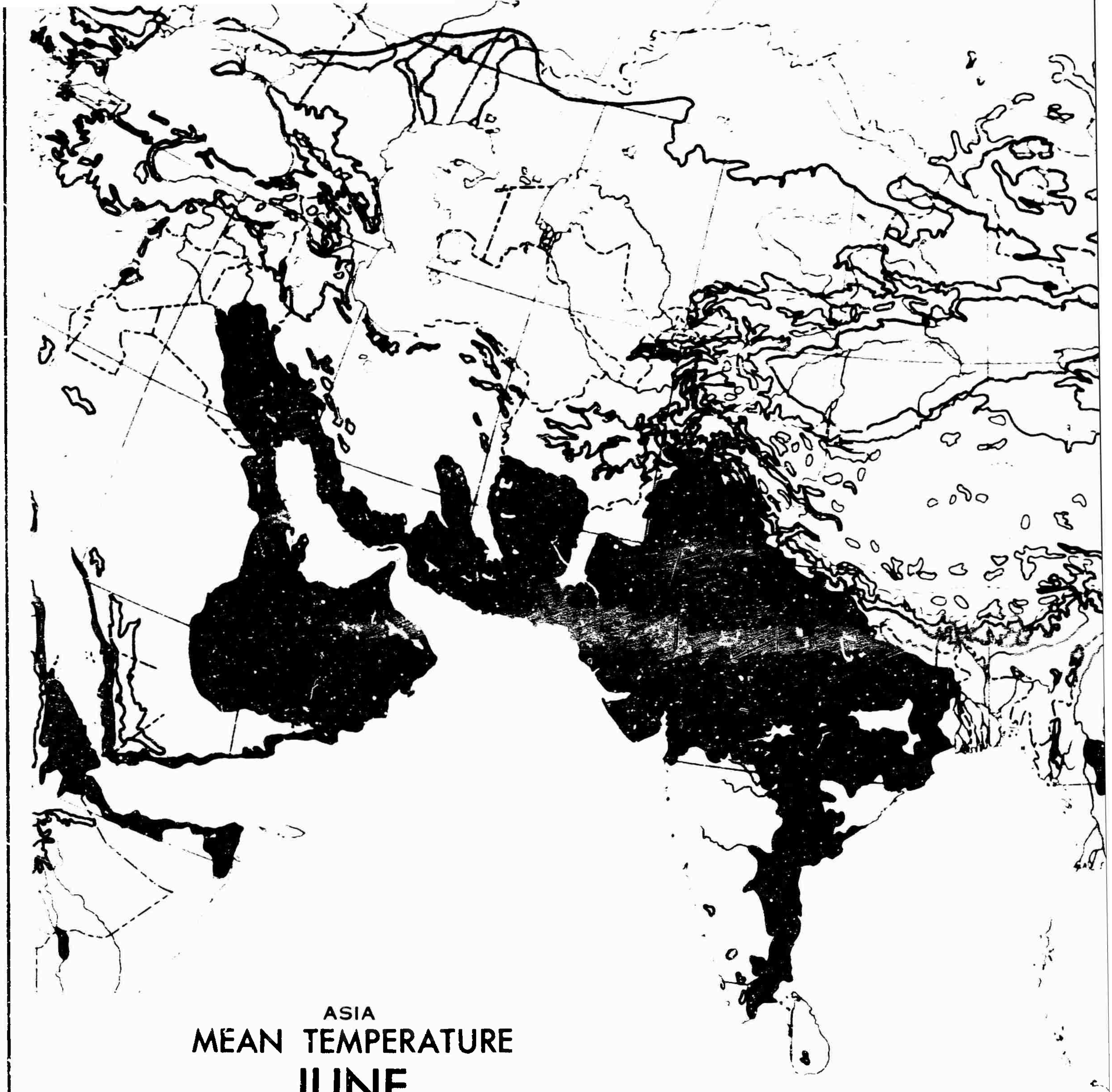






ASIA
MEAN TEMPERATURE
JUNE

CENTIGRADE FAHRENHEIT

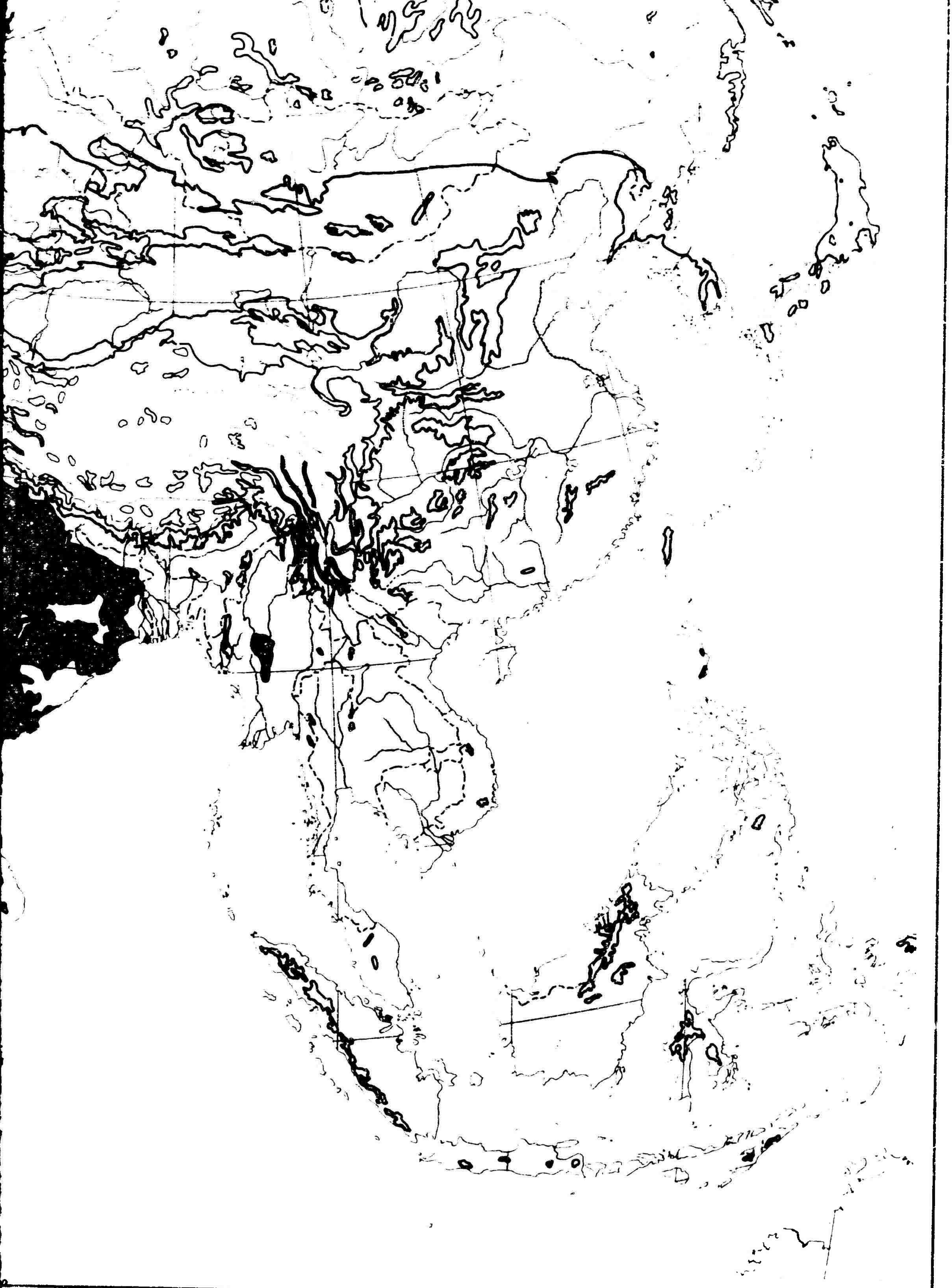
CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

SCALE 1:24,000,000

0 100 200 300 400 500
MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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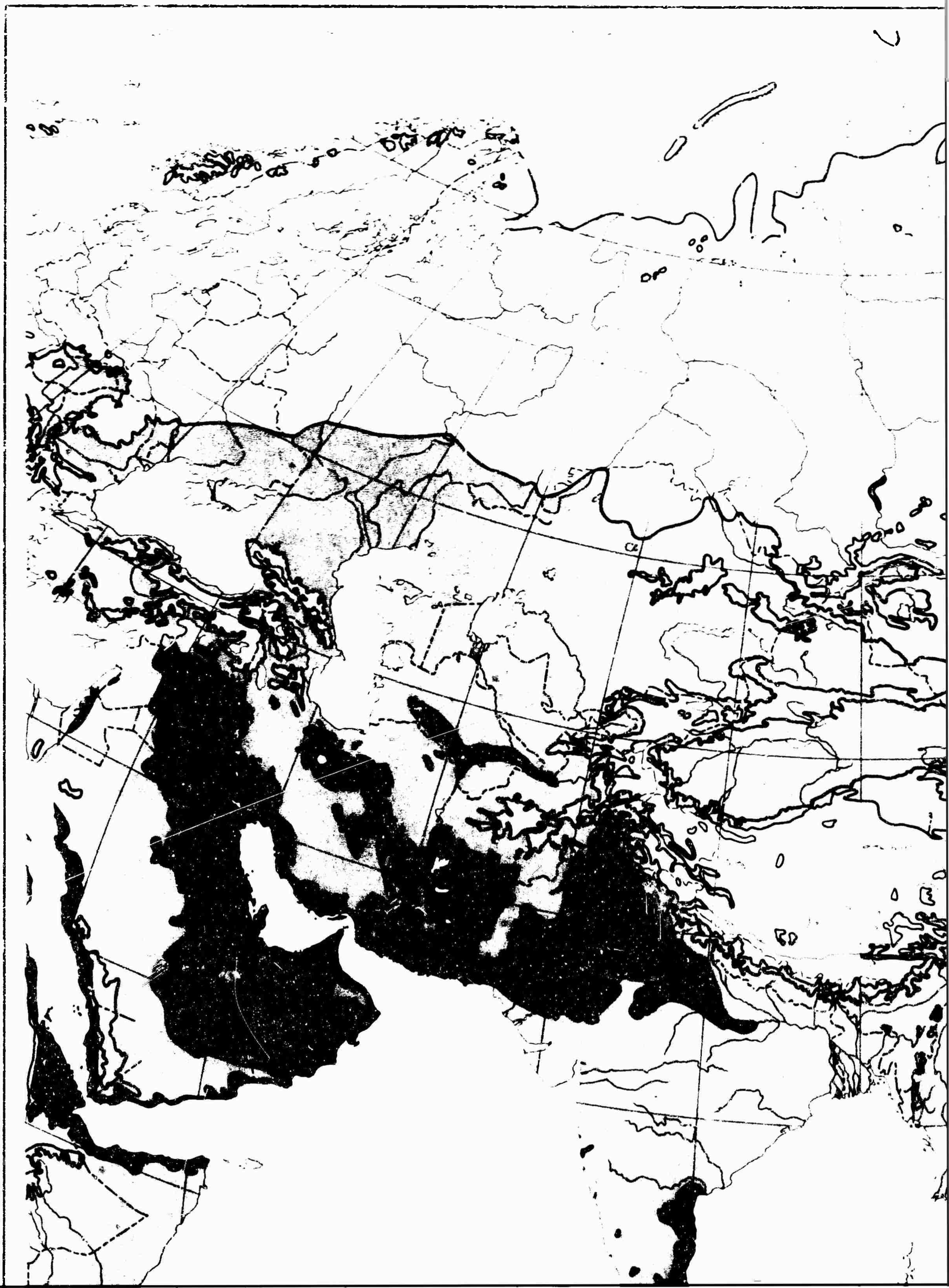
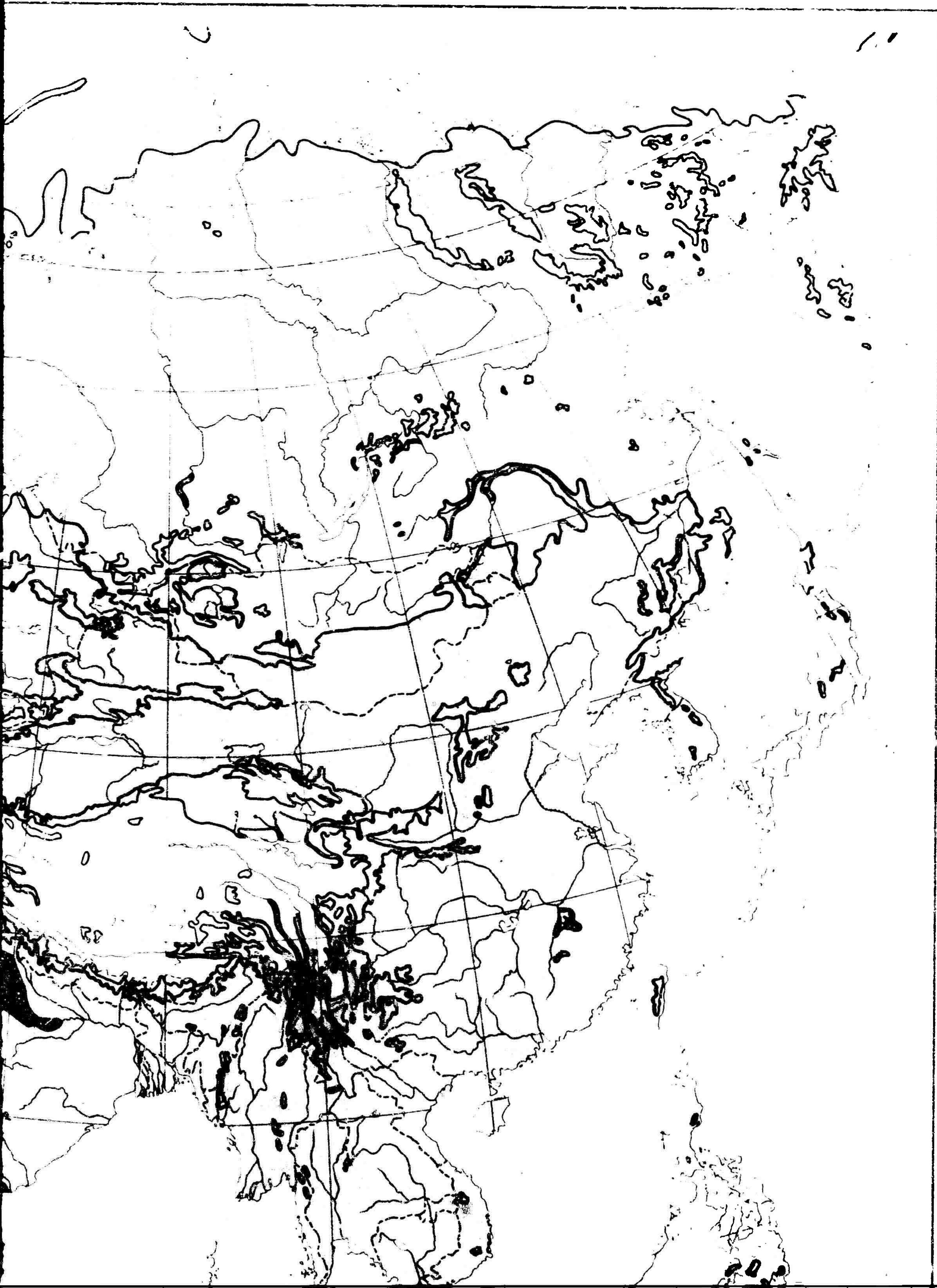
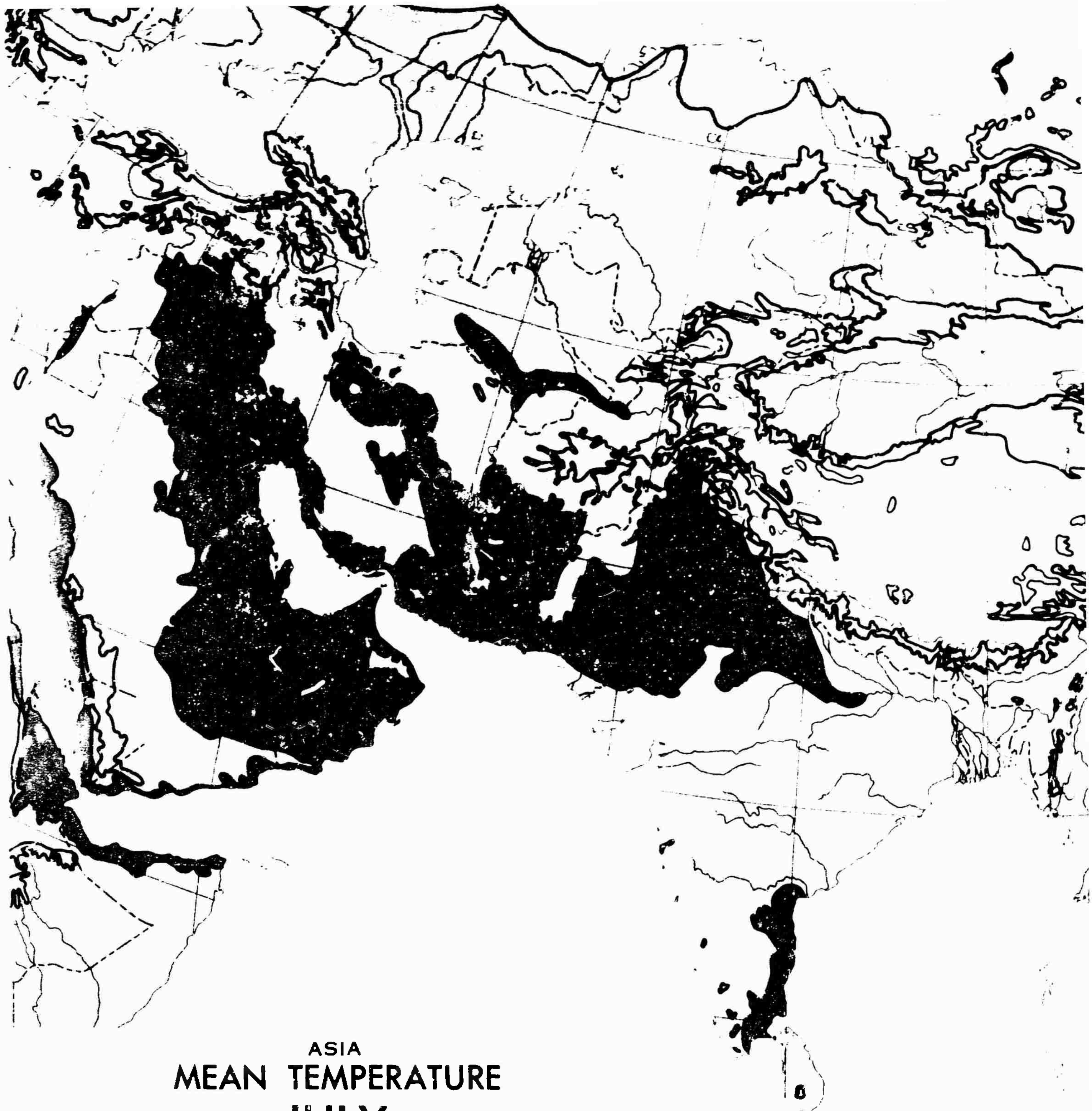


MAP 55





ASIA

MEAN TEMPERATURE
JULY

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

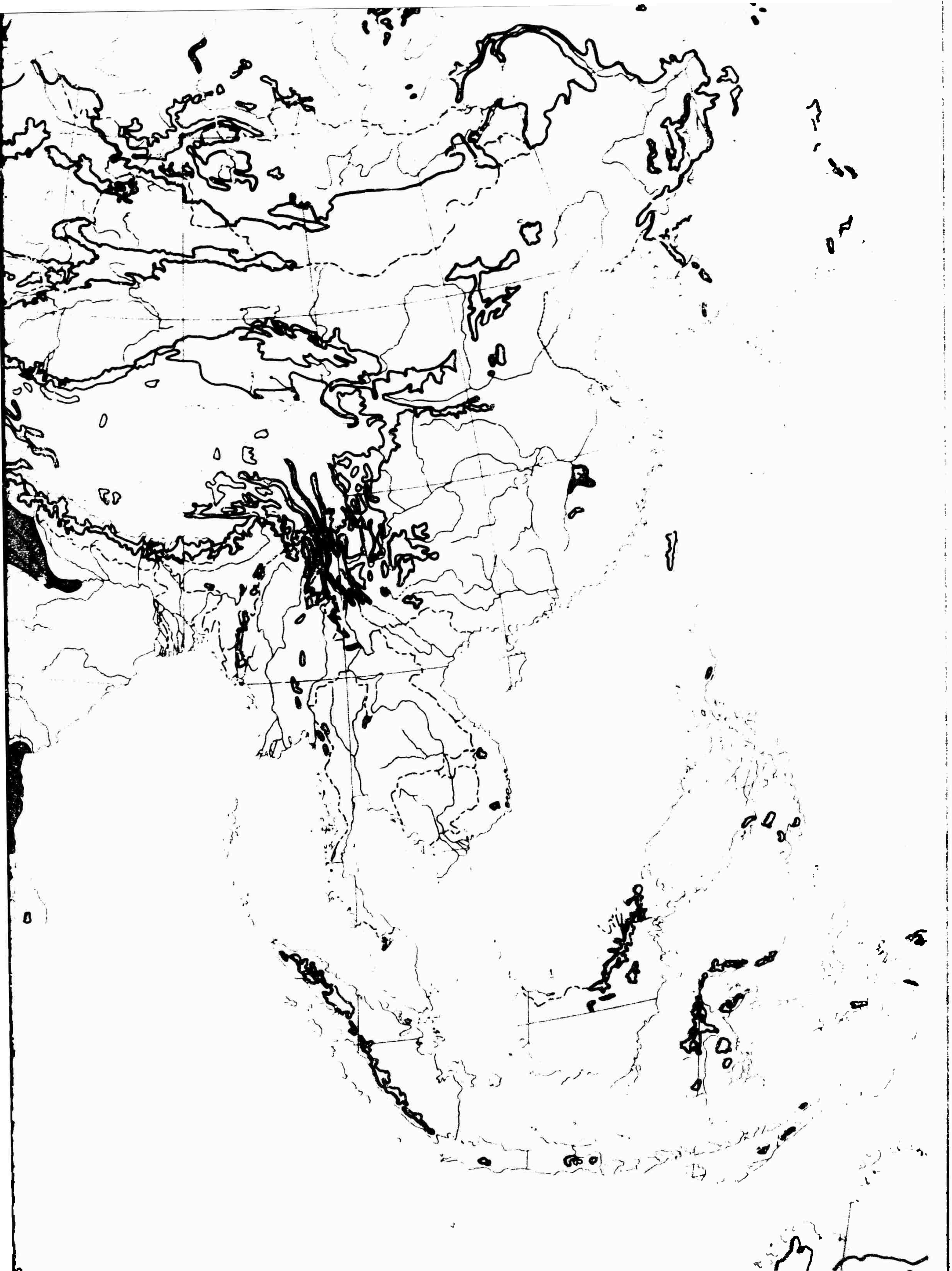
SCALE 1 24,000,000

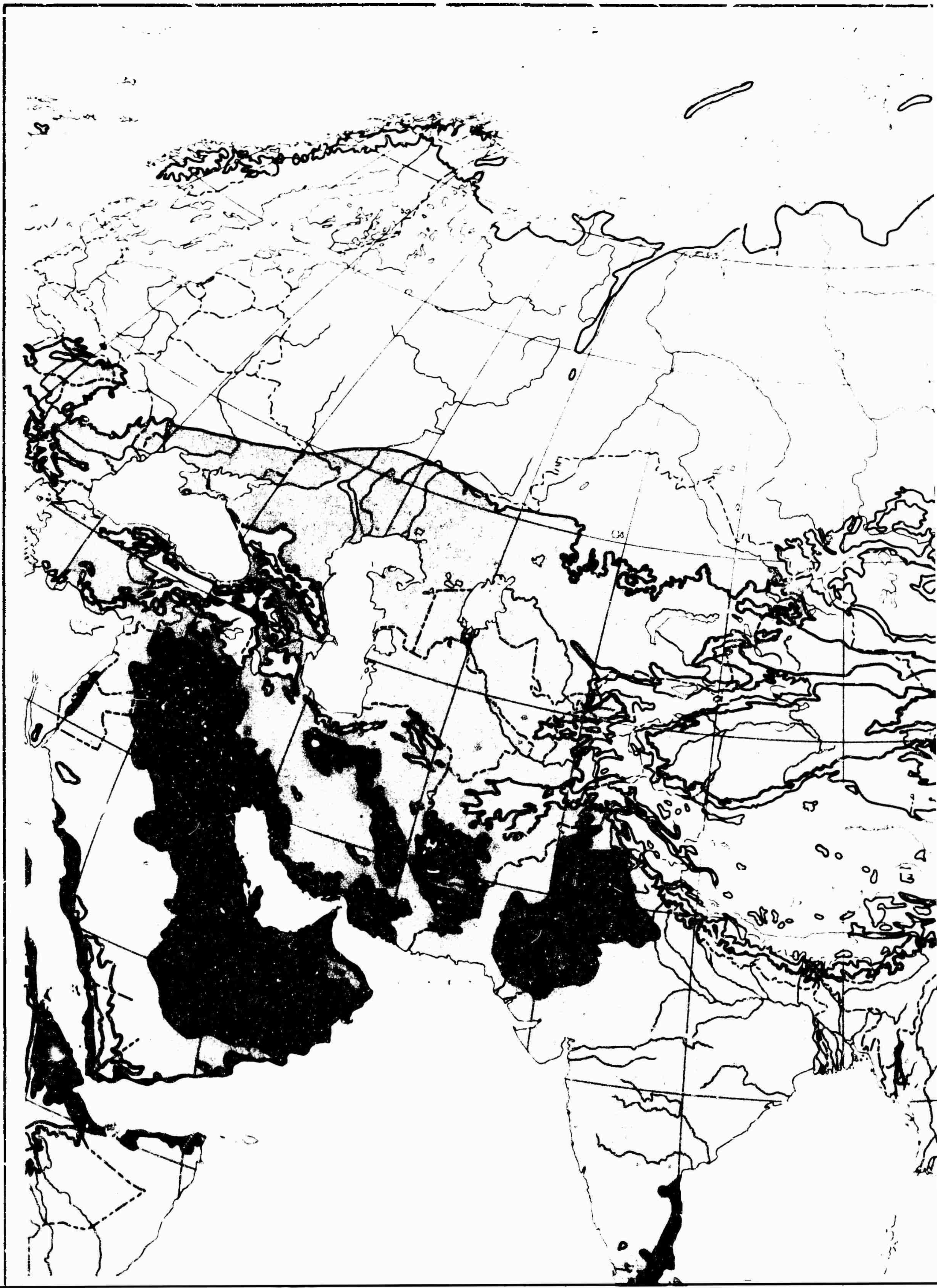
0 100 200 300 400 500

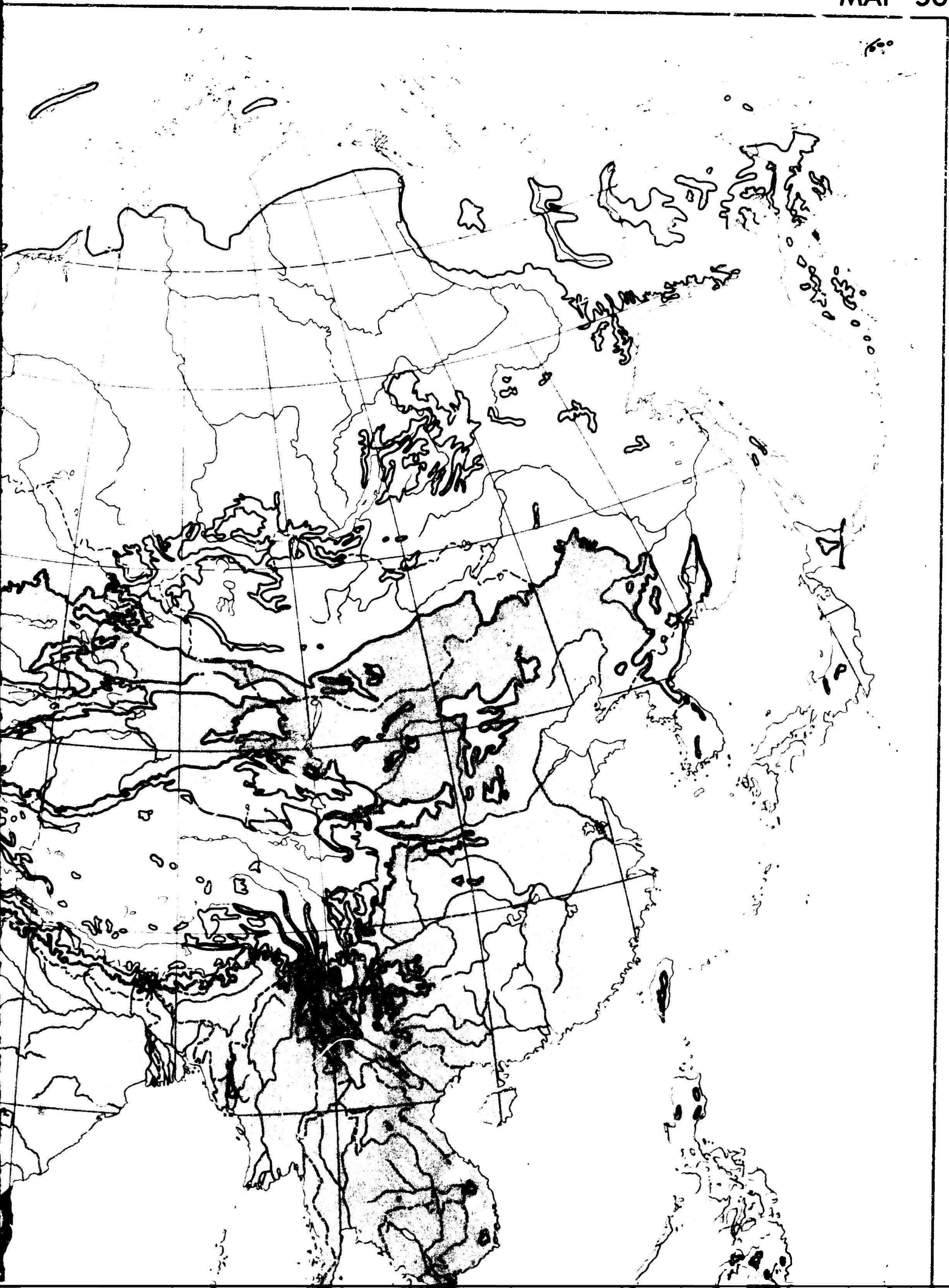
MILES

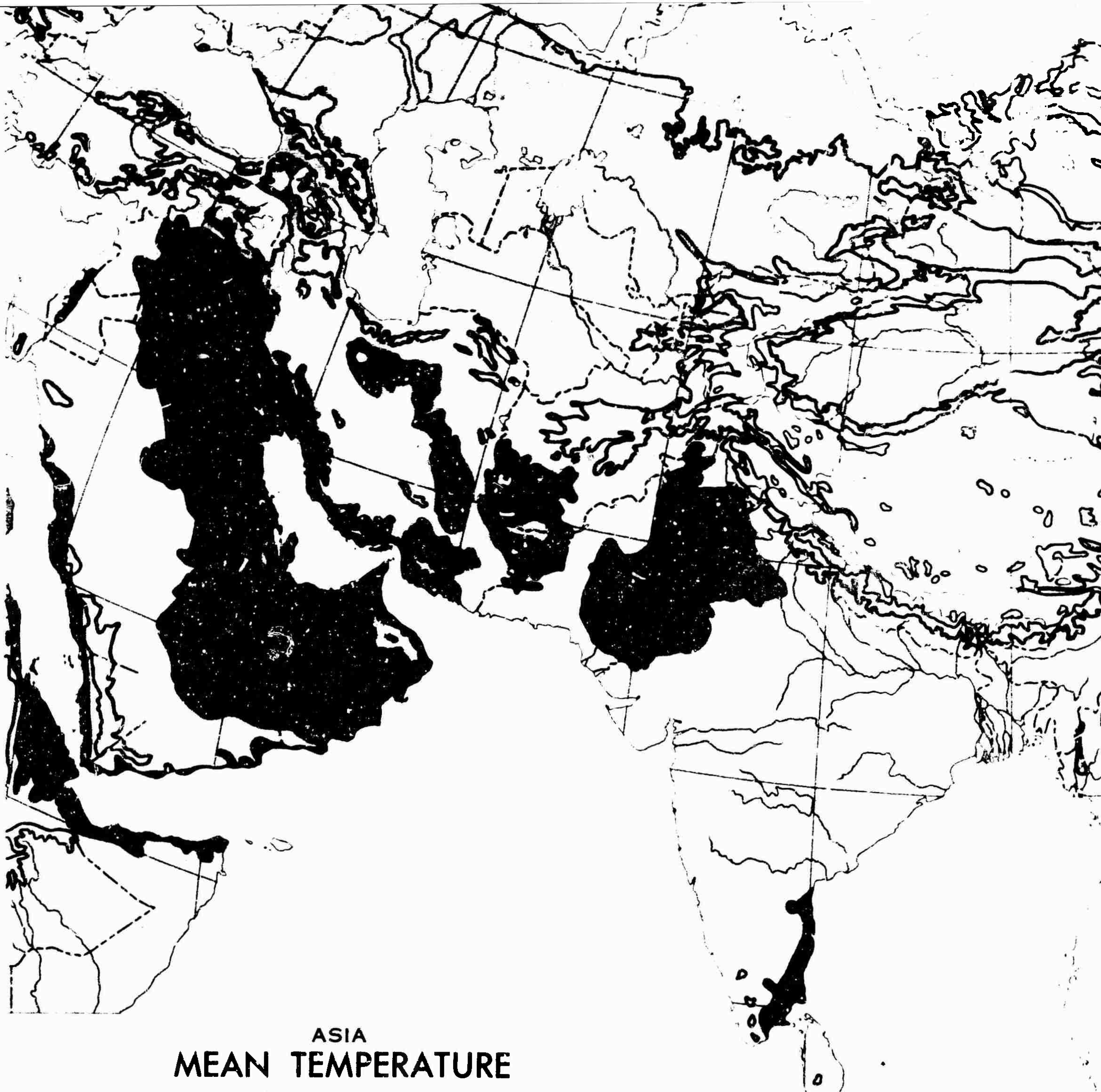
BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE









ASIA

MEAN TEMPERATURE

AUGUST

CENTIGRADE FAHRENHEIT

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

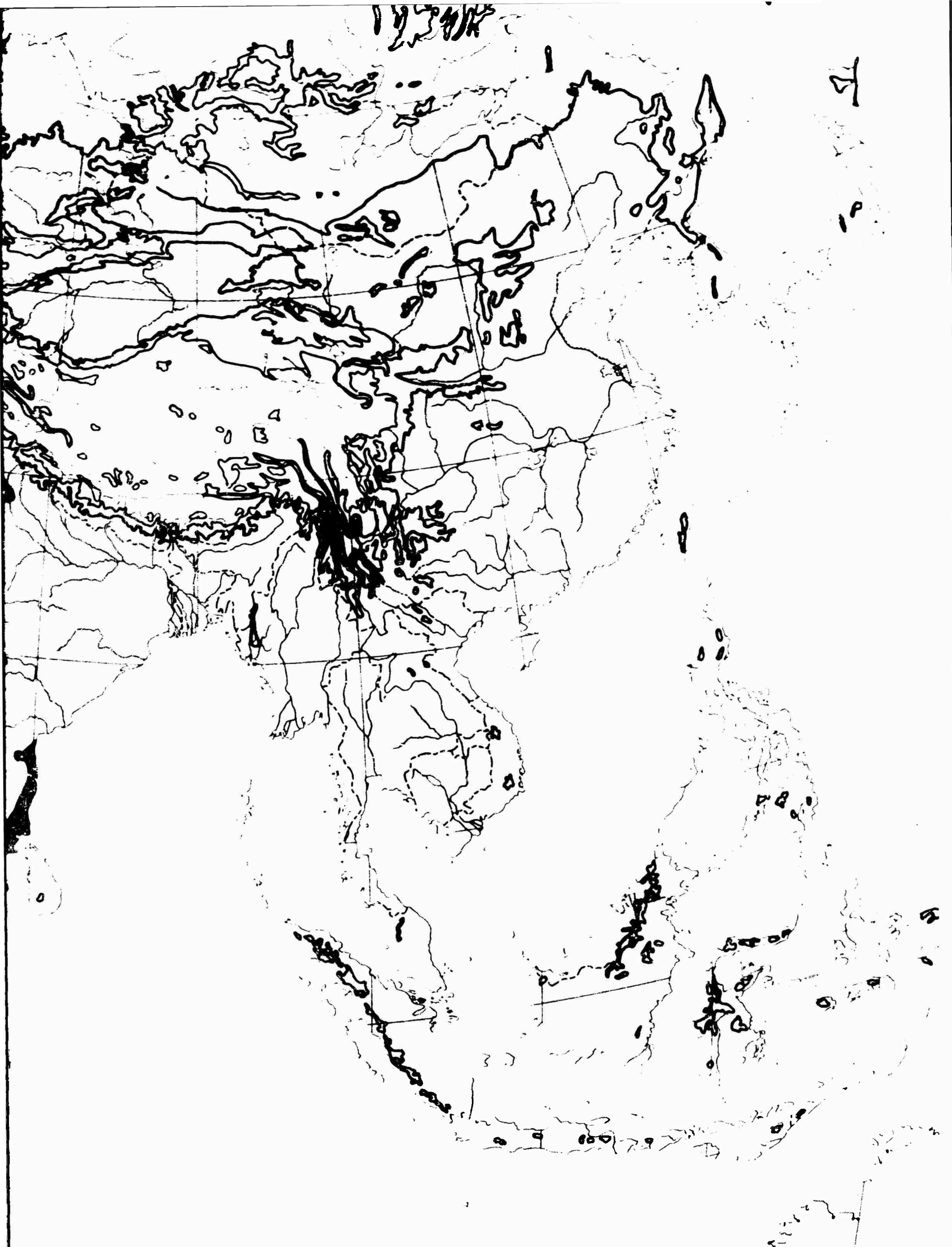
SCALE 1 24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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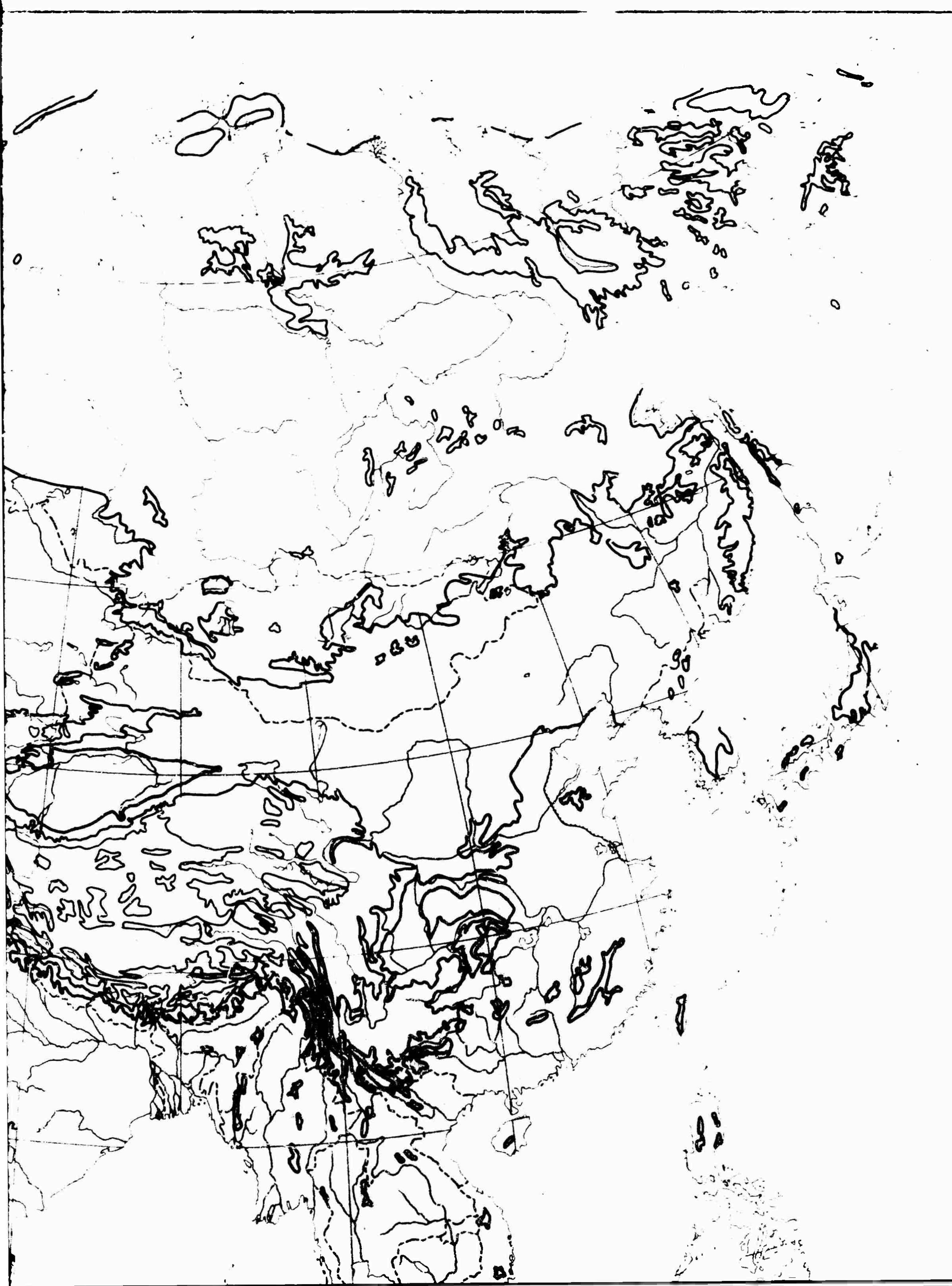
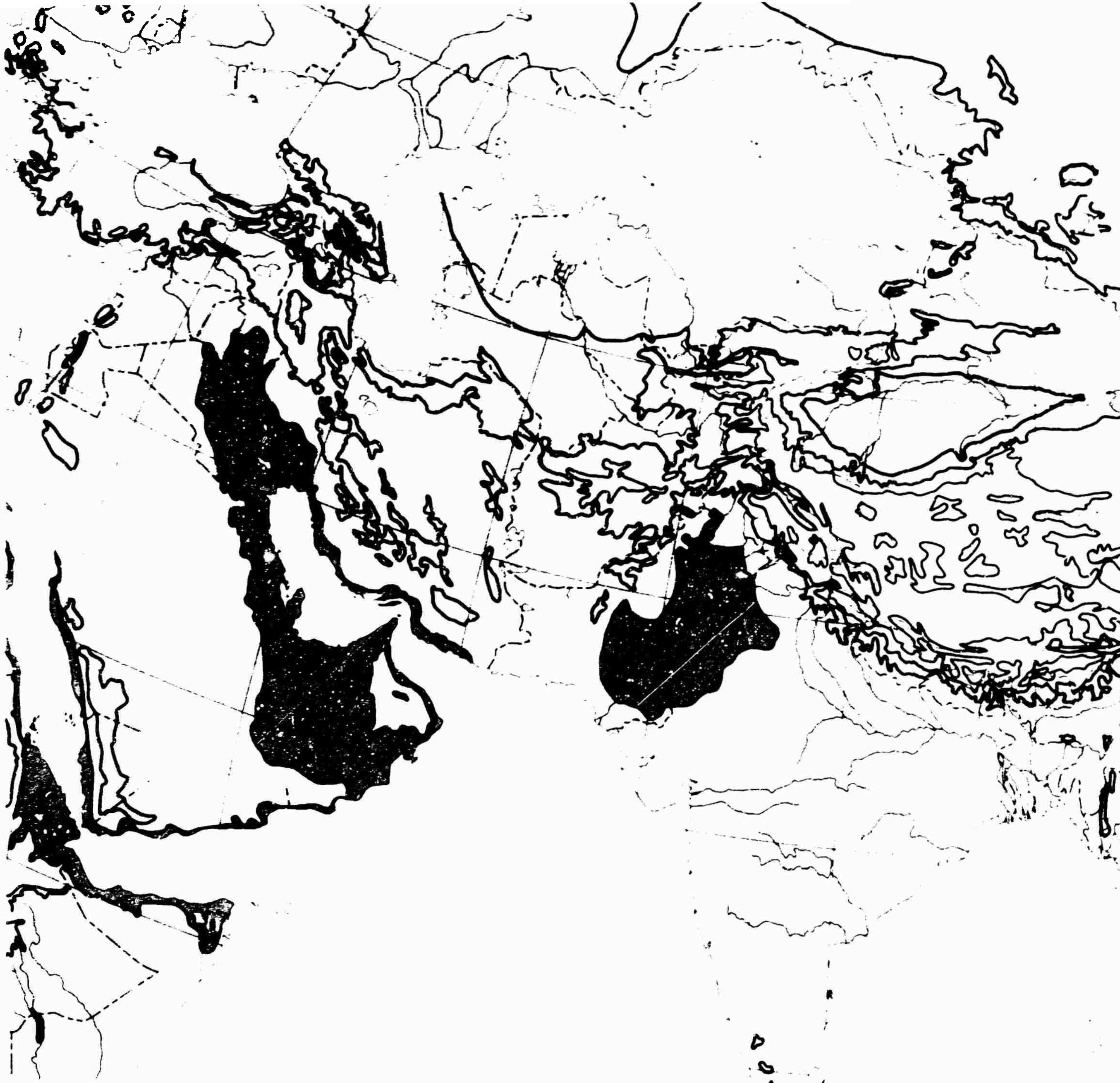




ASIA

MEAN TEMPERATURE

SEPTEMBER

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°
– 10°	14°

CENTIGRADE	FAHRENHEIT
– 10°	14°

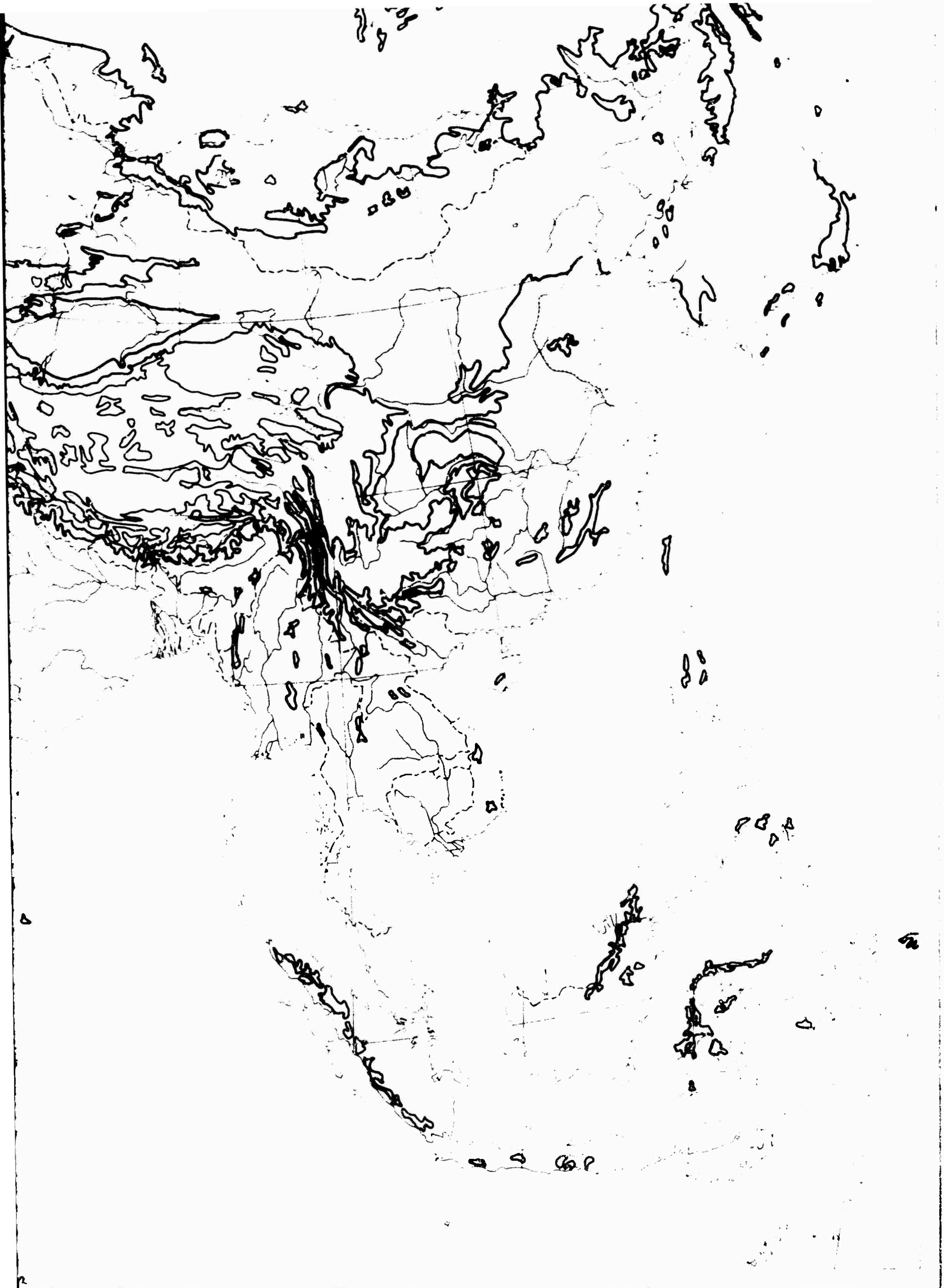
SCALE 1:24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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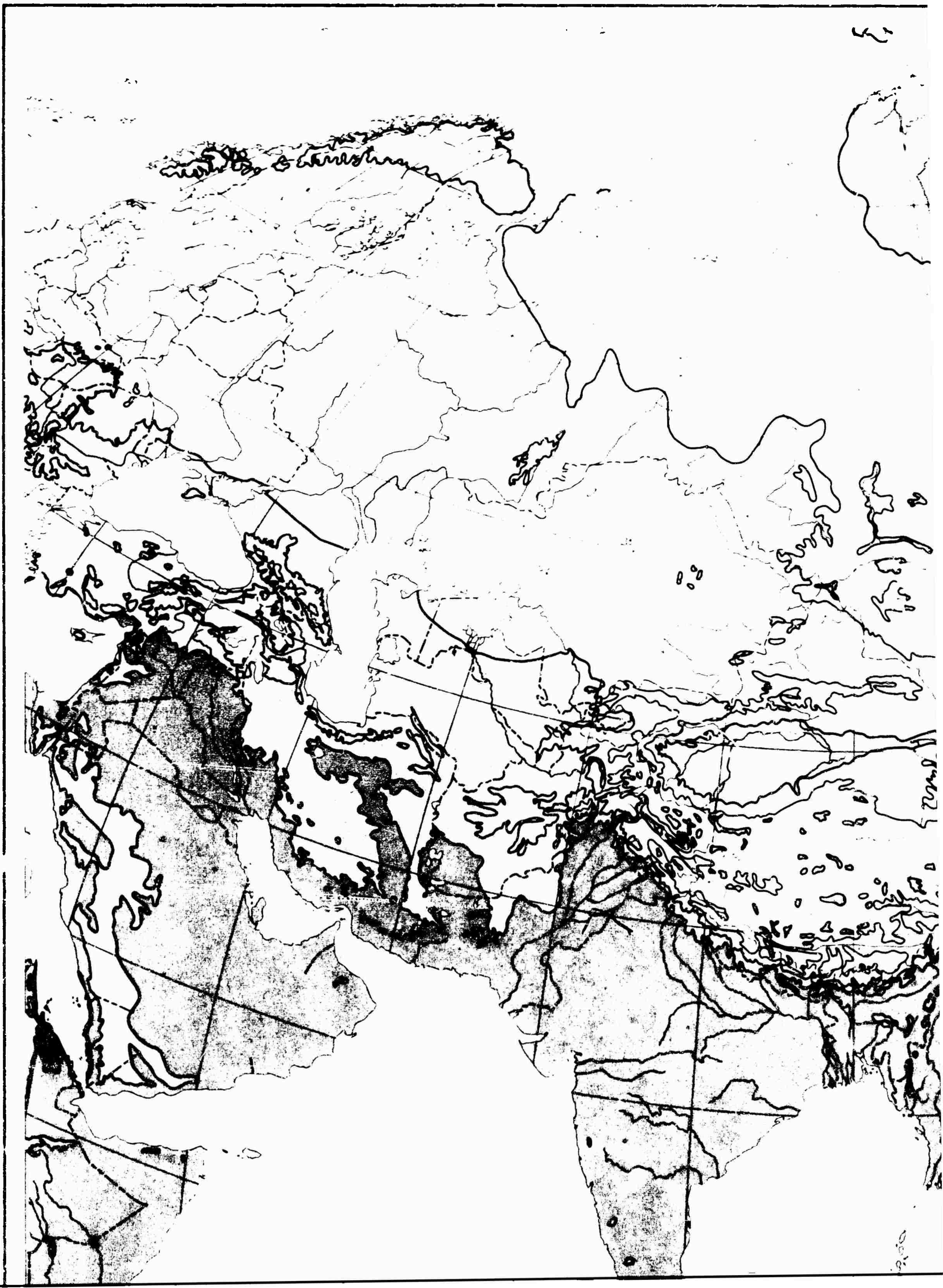
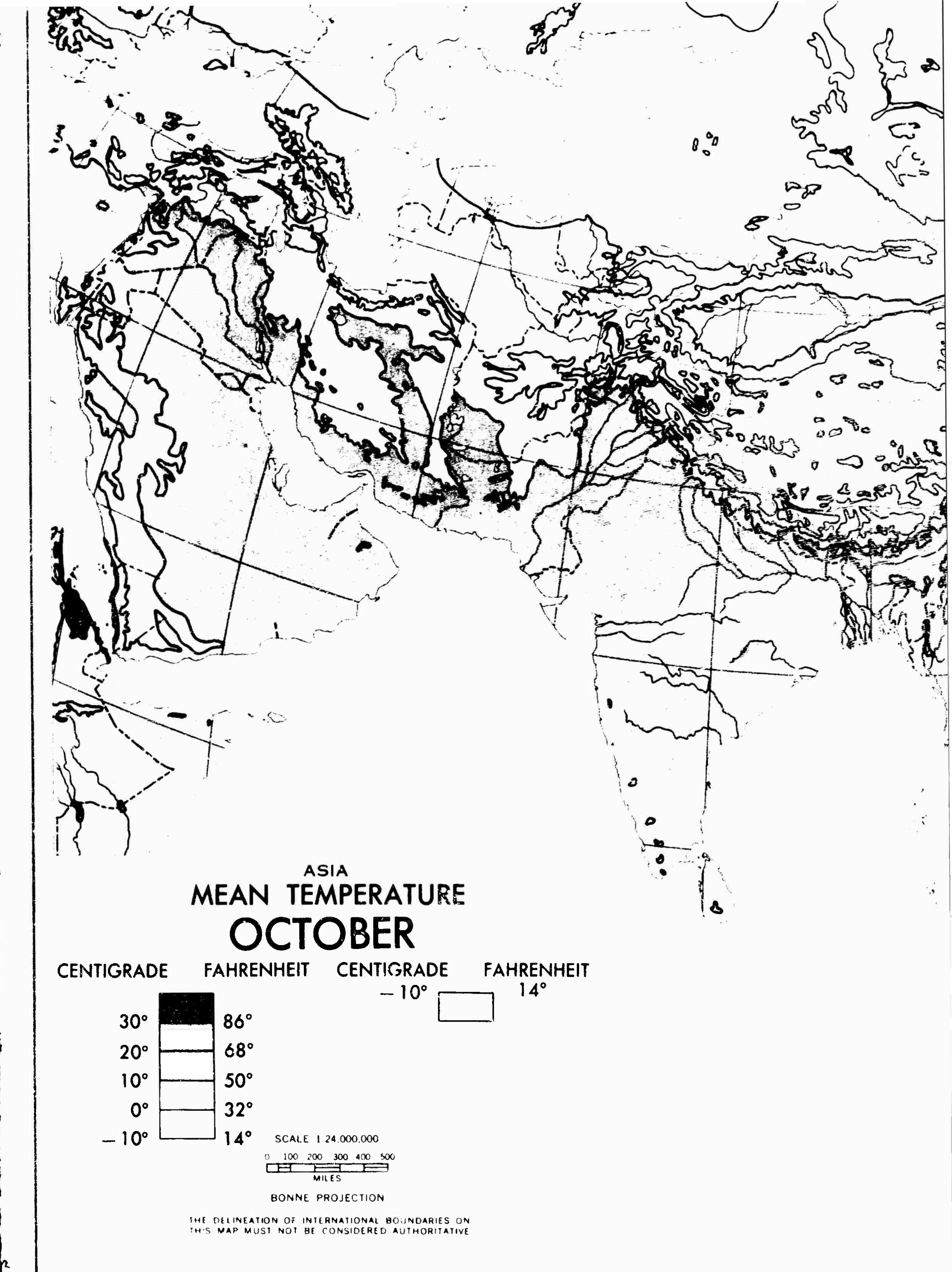
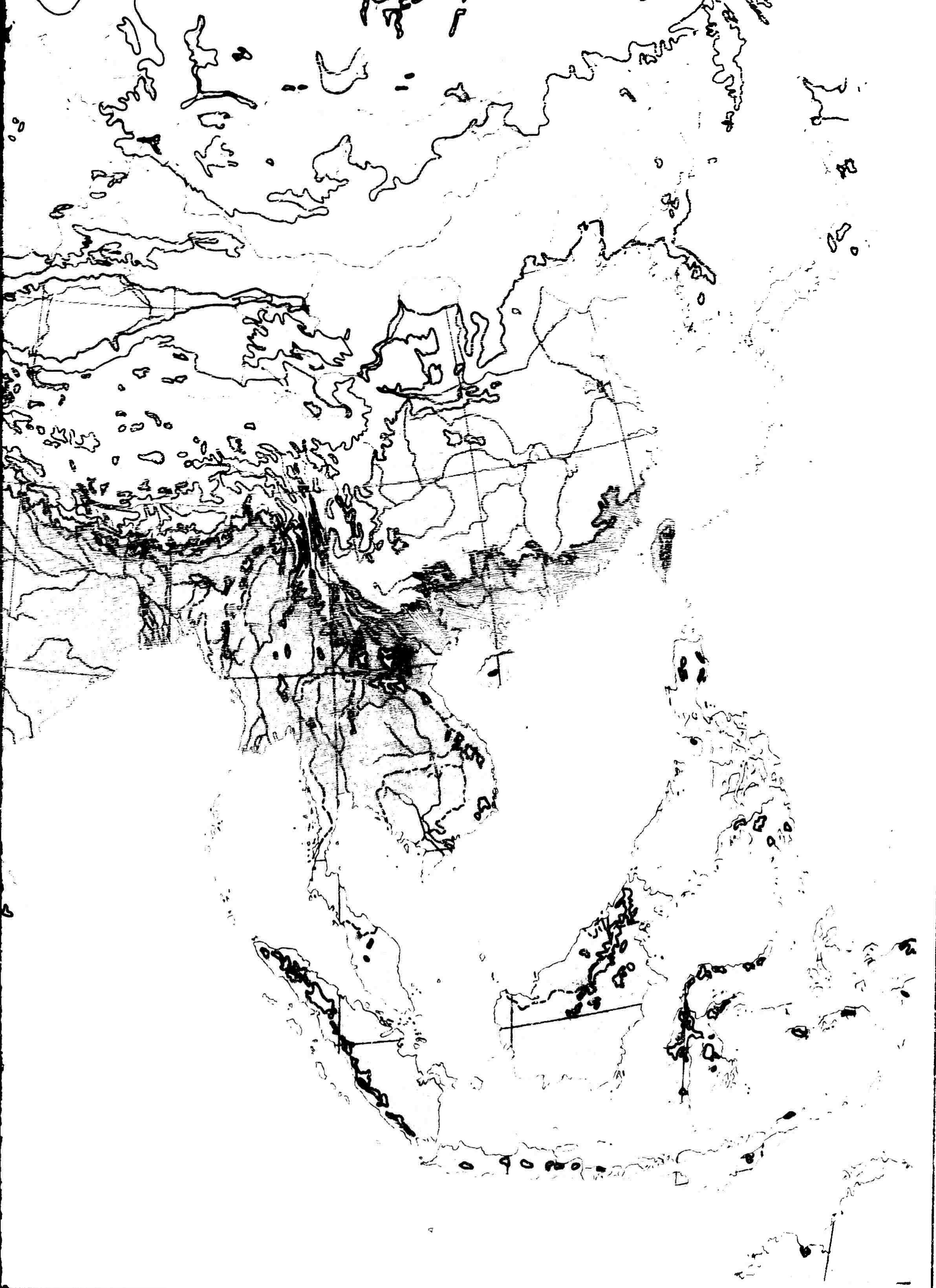


MAP 58


ASIA
MEAN TEMPERATURE
OCTOBER
CENTIGRADE FAHRENHEIT
30° 86°
20° 68°
10° 50°
0° 32°
– 10° 14°
CENTIGRADE FAHRENHEIT
– 10° 14°
SCALE 1 24,000,000
0 100 200 300 400 500
MILES
BONNE PROJECTION
THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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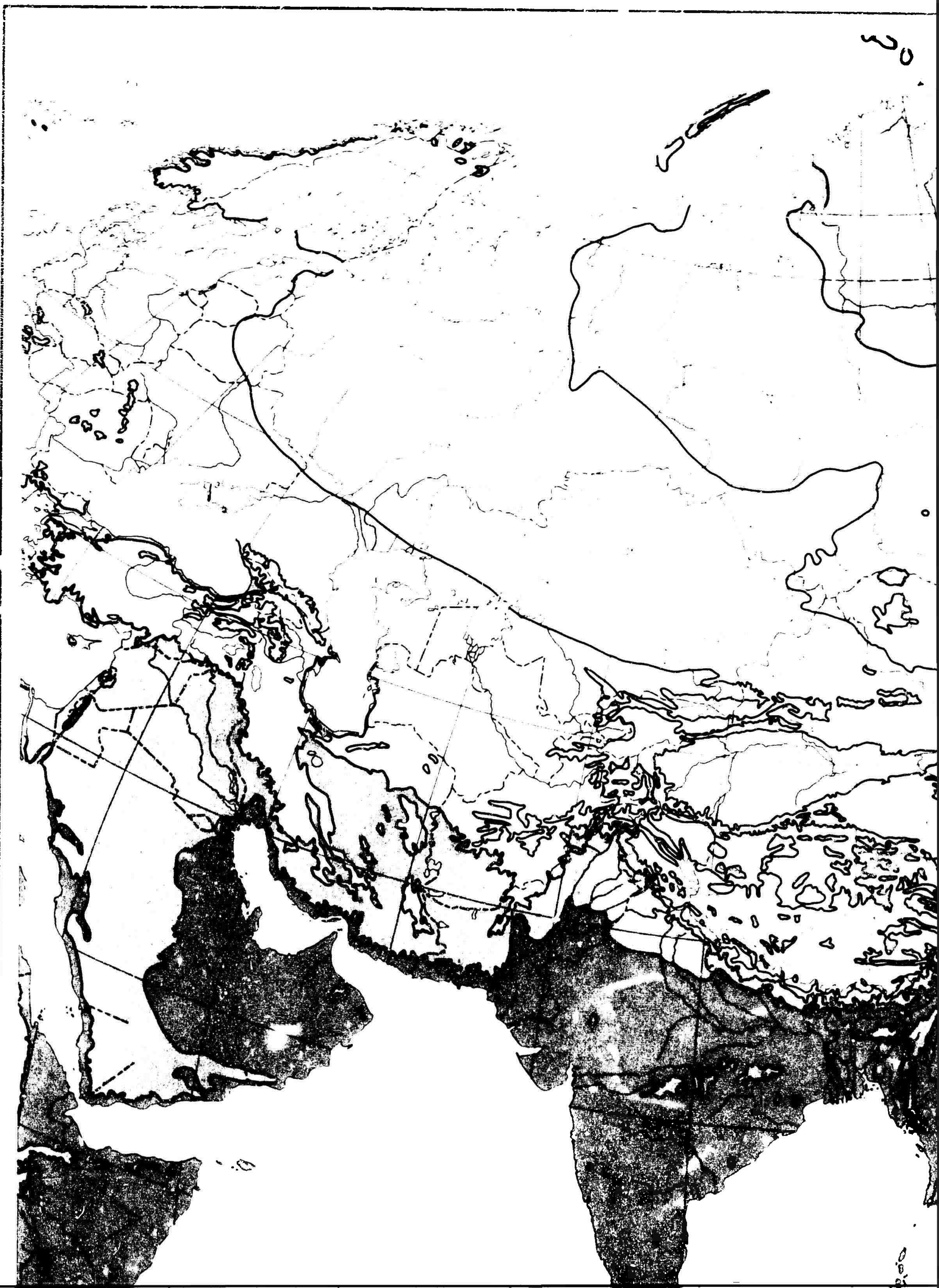
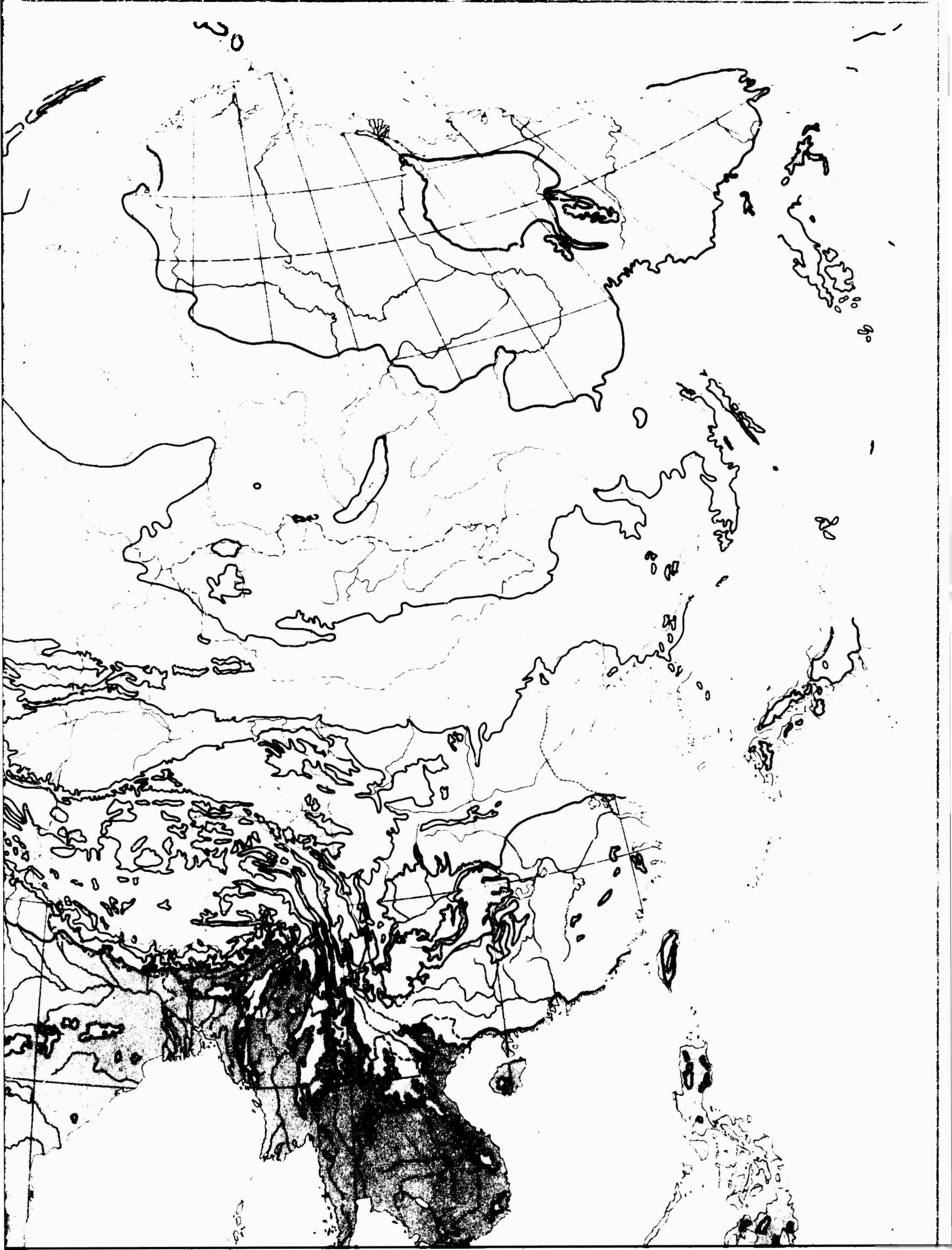
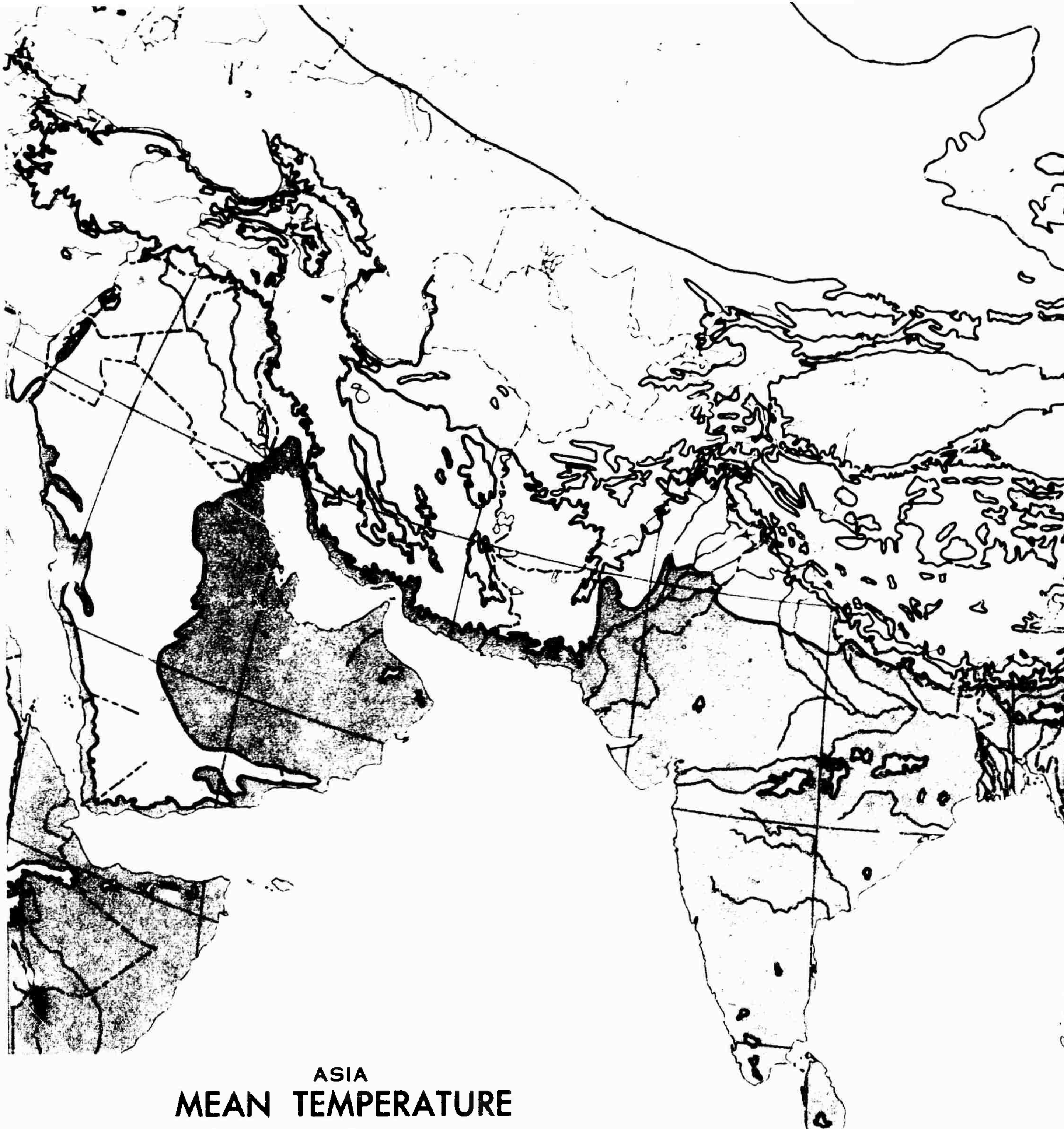






ASIA

MEAN TEMPERATURE

NOVEMBER

CENTIGRADE	FAHRENHEIT	CENTIGRADE	FAHRENHEIT
30°	86°	– 10°	14°
20°	68°	– 20°	– 4°
10°	50°	– 30°	– 22°
0°	32°		
– 10°	14°		

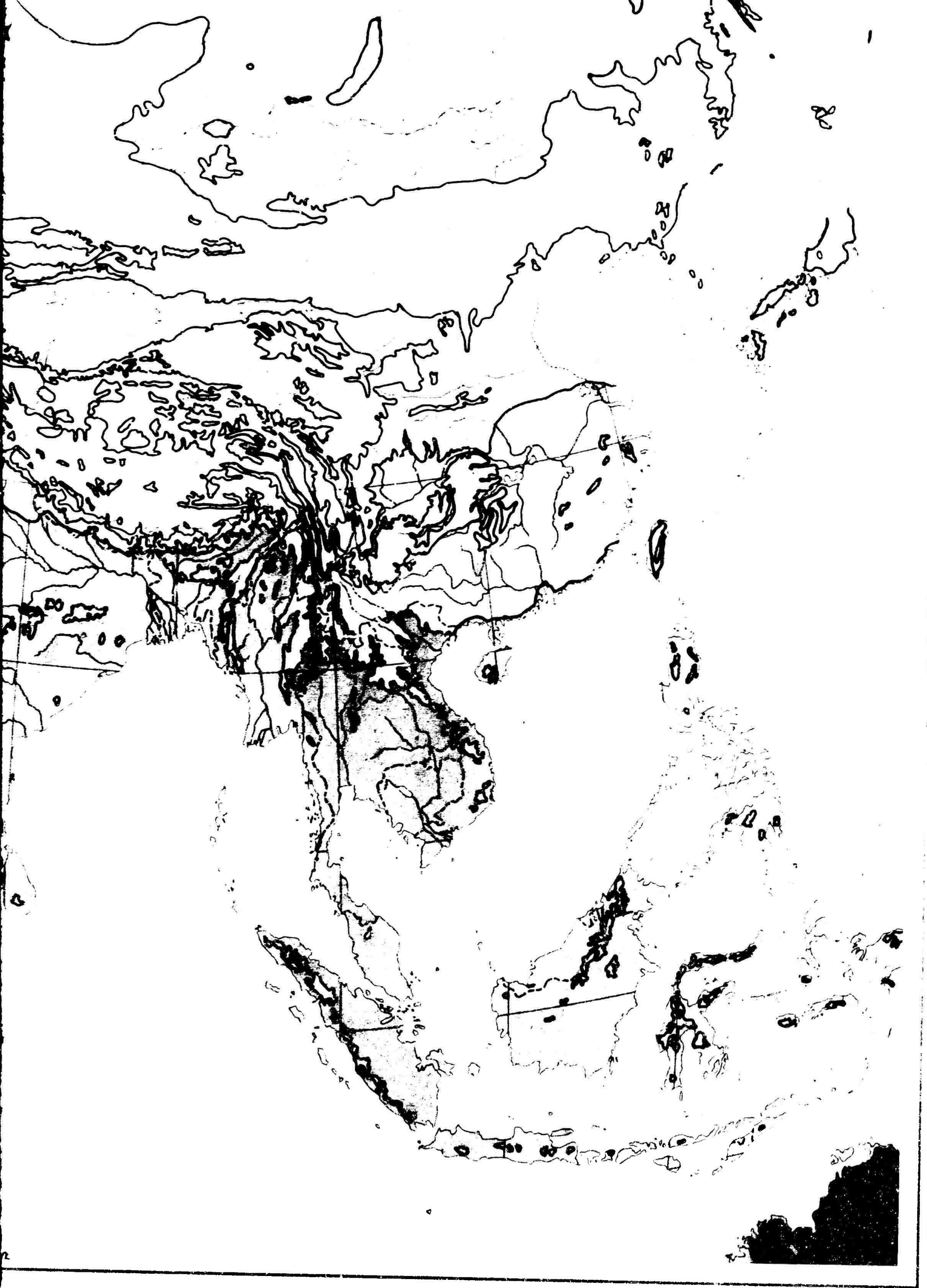
1:24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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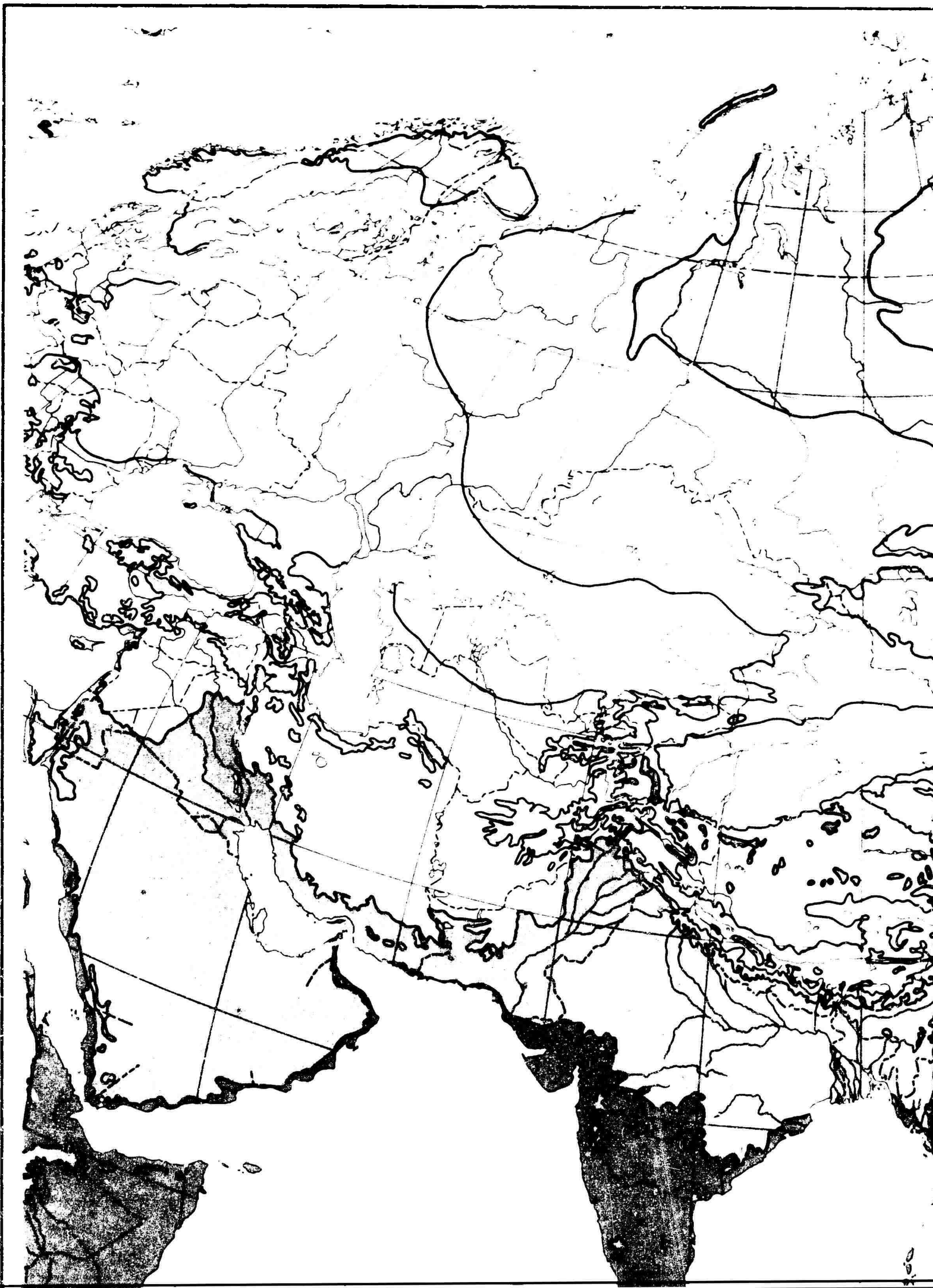
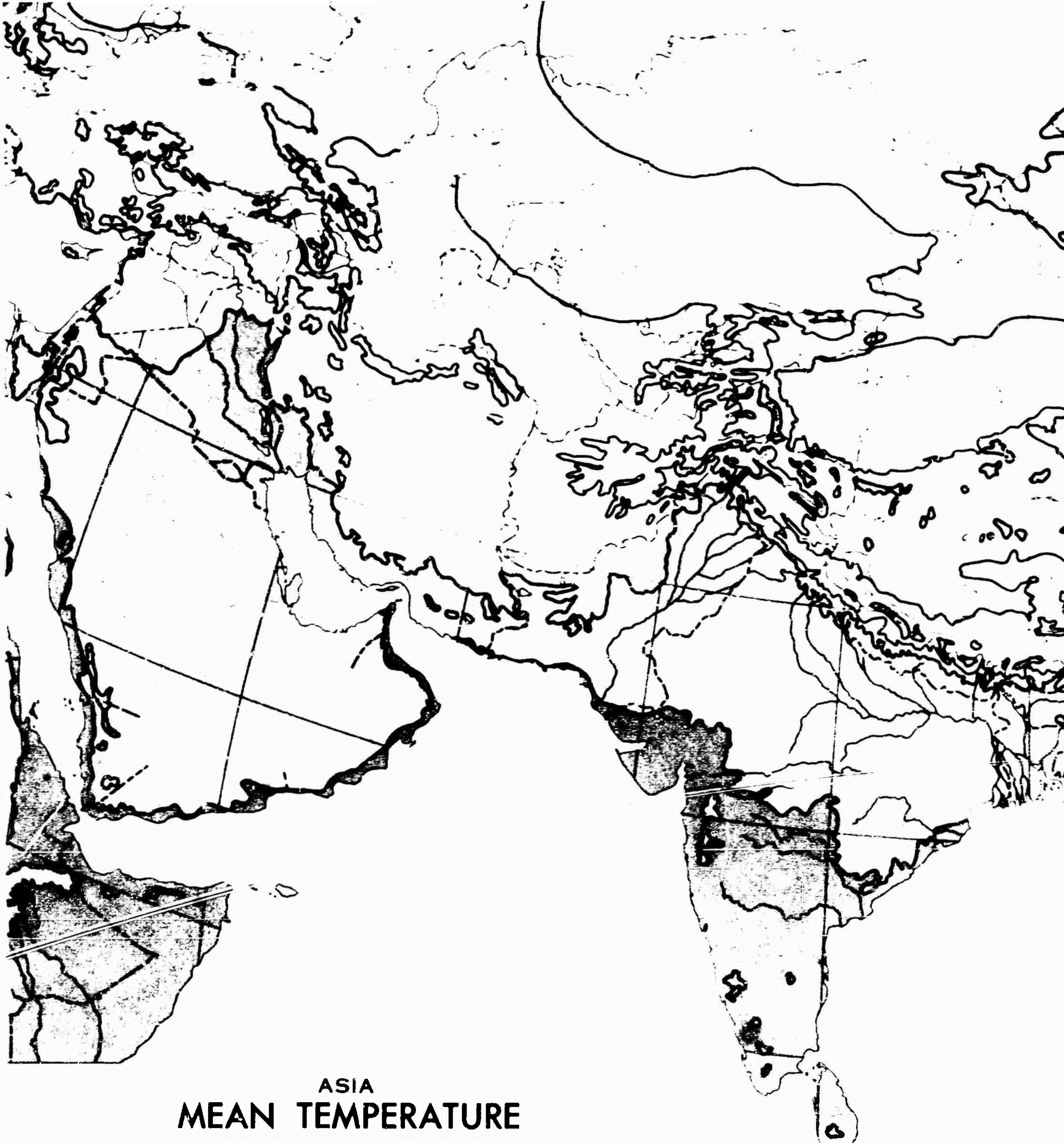


MAP 60



ASIA

MEAN TEMPERATURE

DECEMBER

CENTIGRADE	FAHRENHEIT	CENTIGRADE	FAHRENHEIT
30°	86°	– 10°	14°
20°	68°	– 20°	– 4°
10°	50°	– 30°	– 22°
0°	32°	– 40°	– 40°
– 10°	14°		

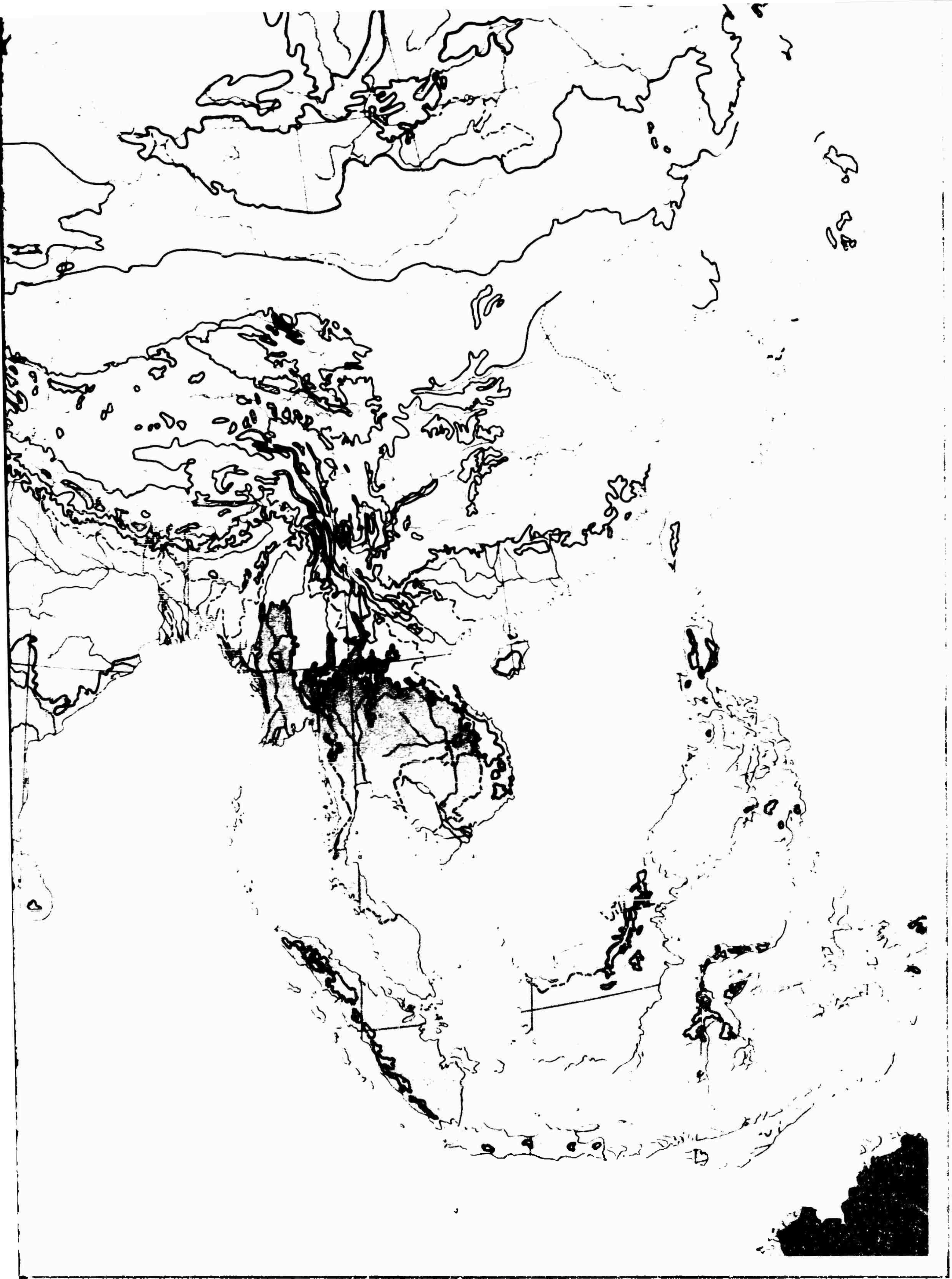
SCALE 1:24,000,000

0 100 200 300 400 500

MILES

BONNE PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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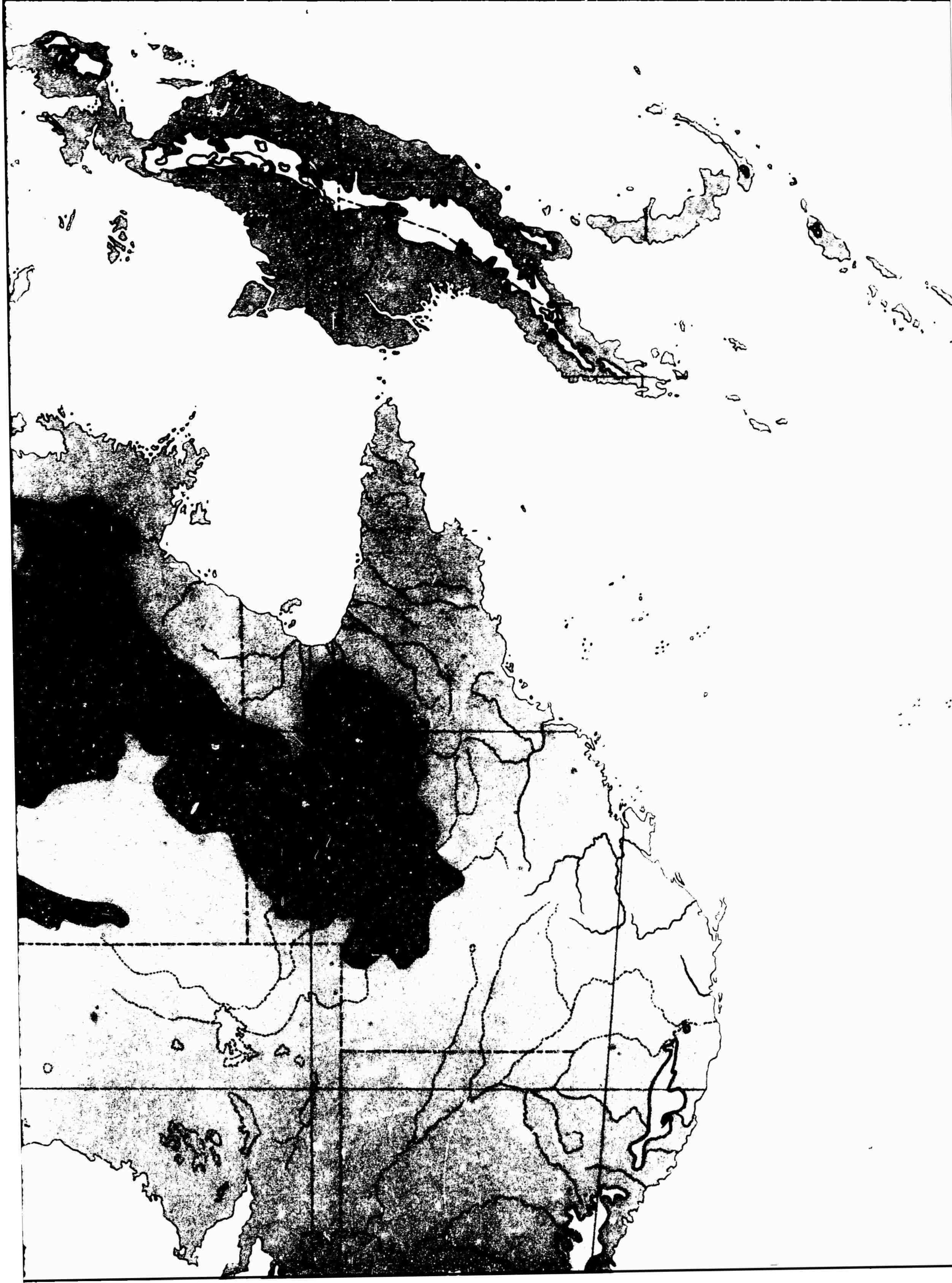
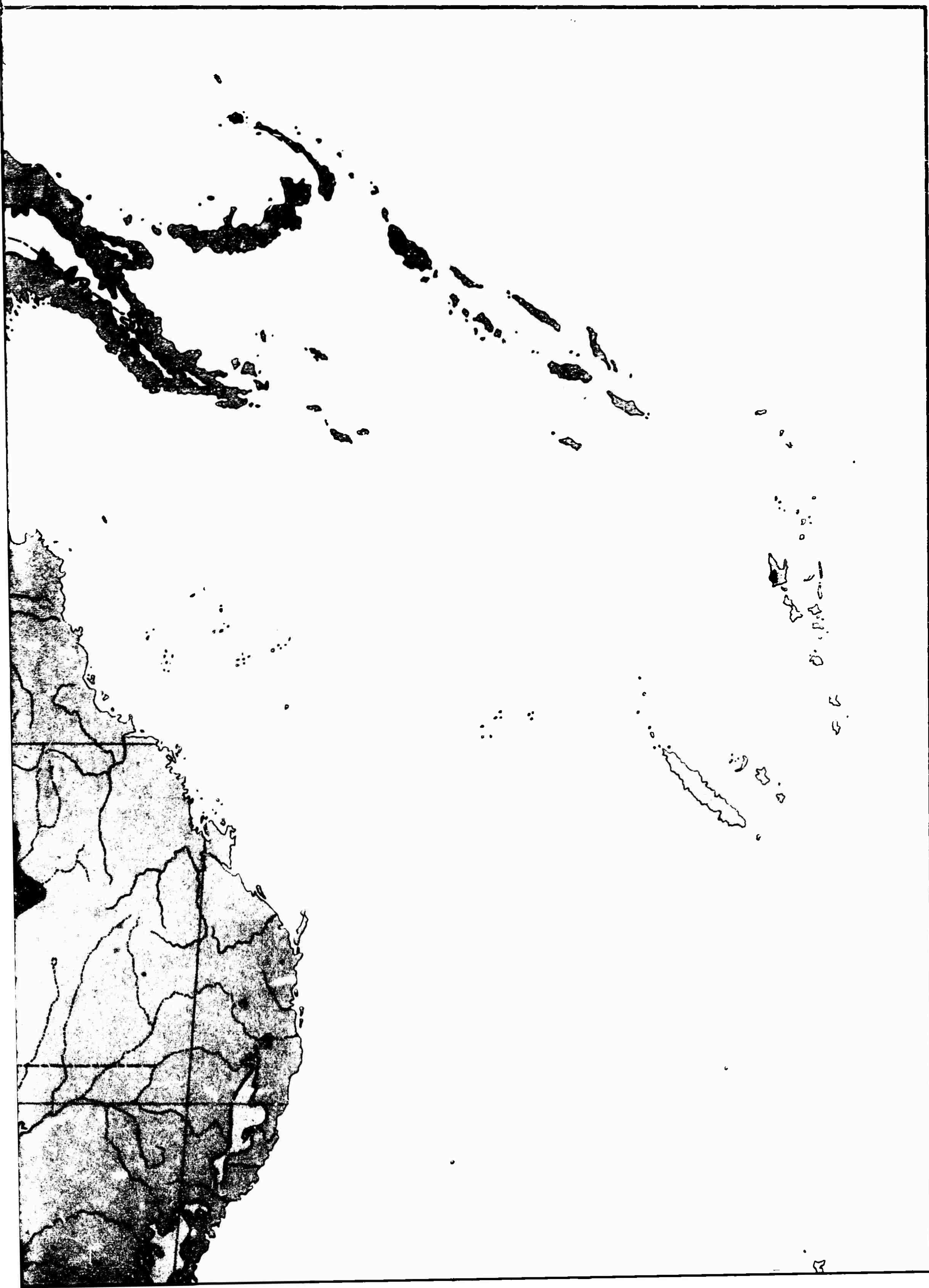


3

MAP 61



AUSTRALIA

MEAN TEMPERATURE
JANUARY

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

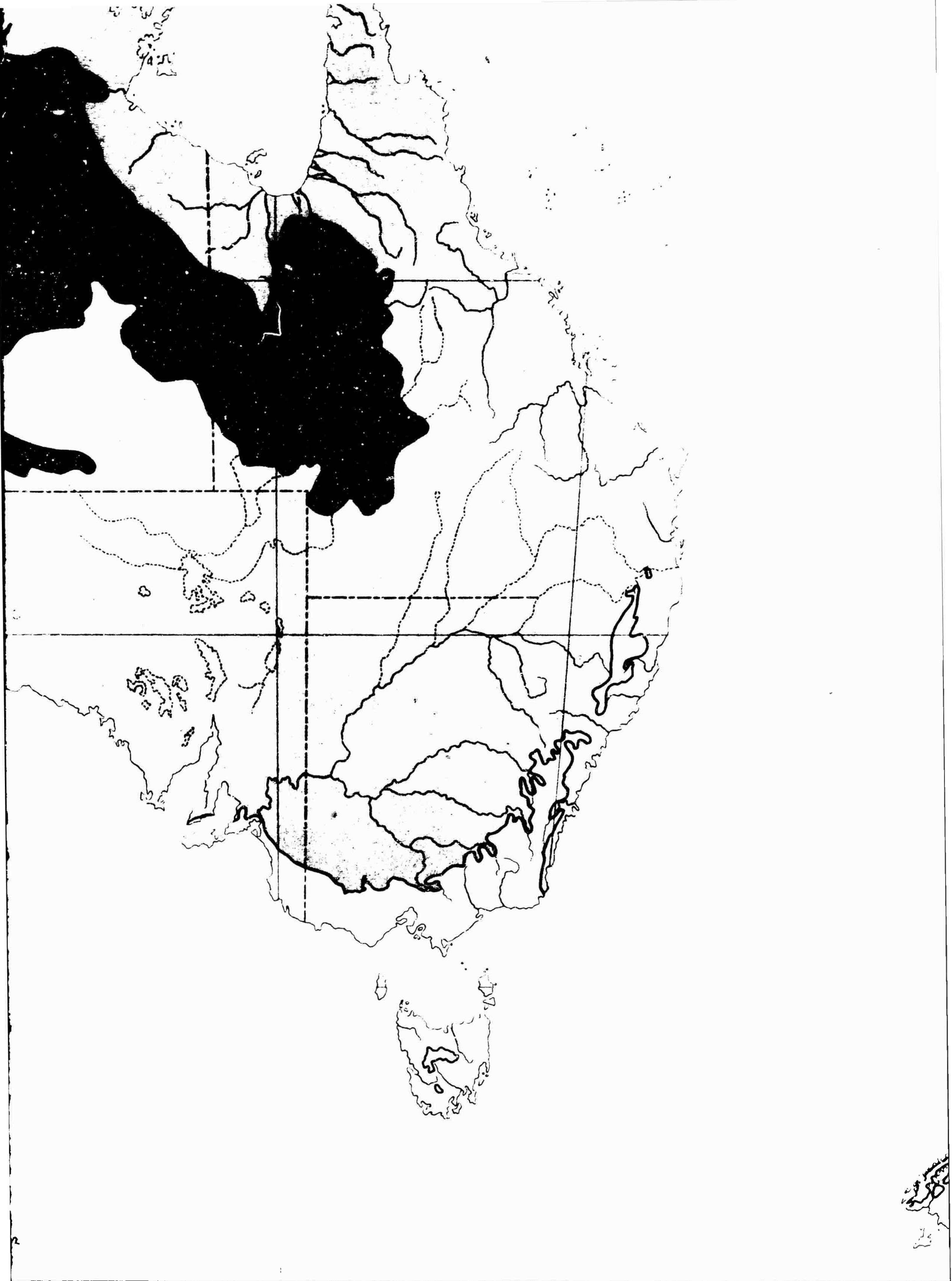
SCALE 1:12,000,000

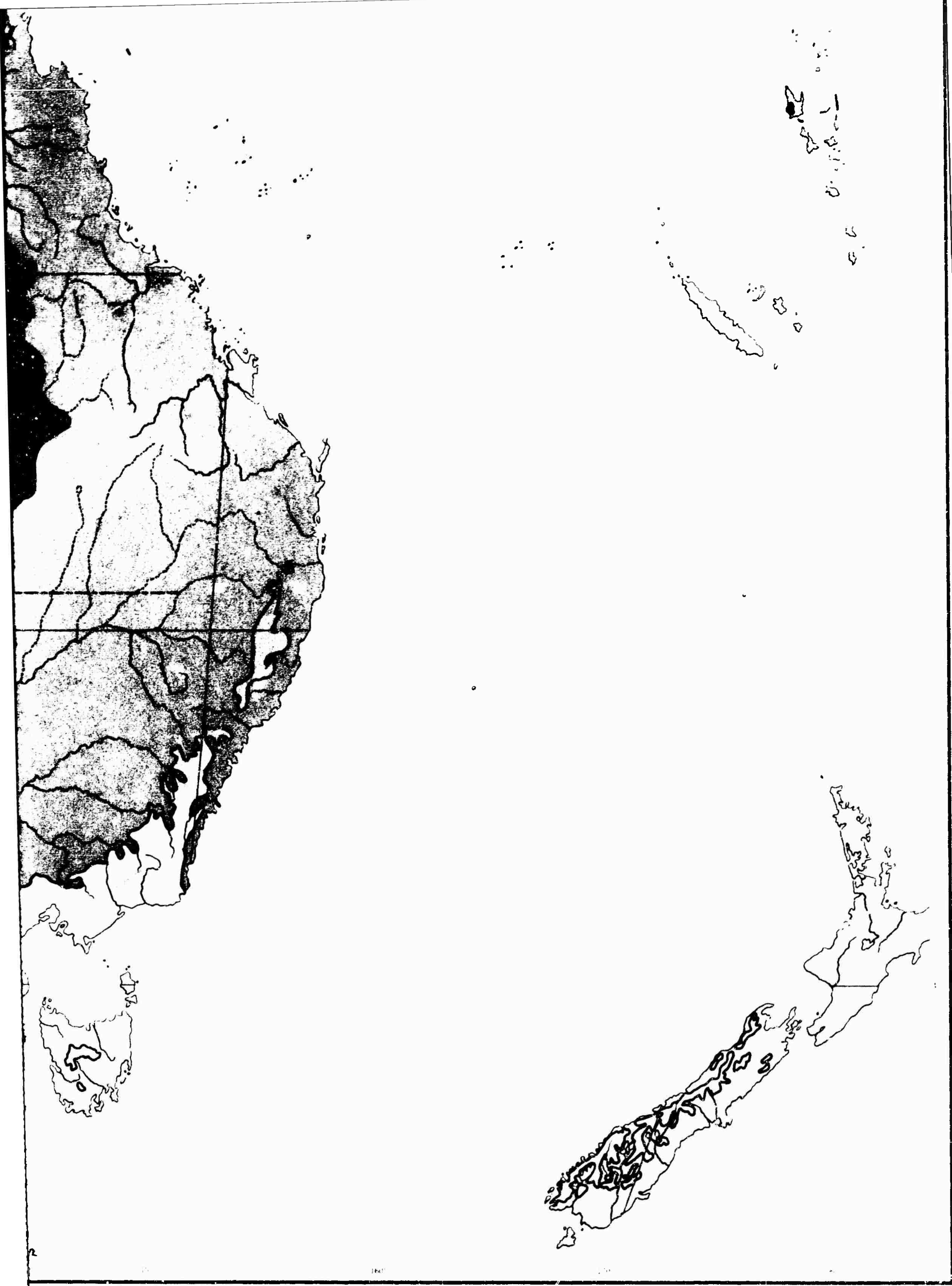
0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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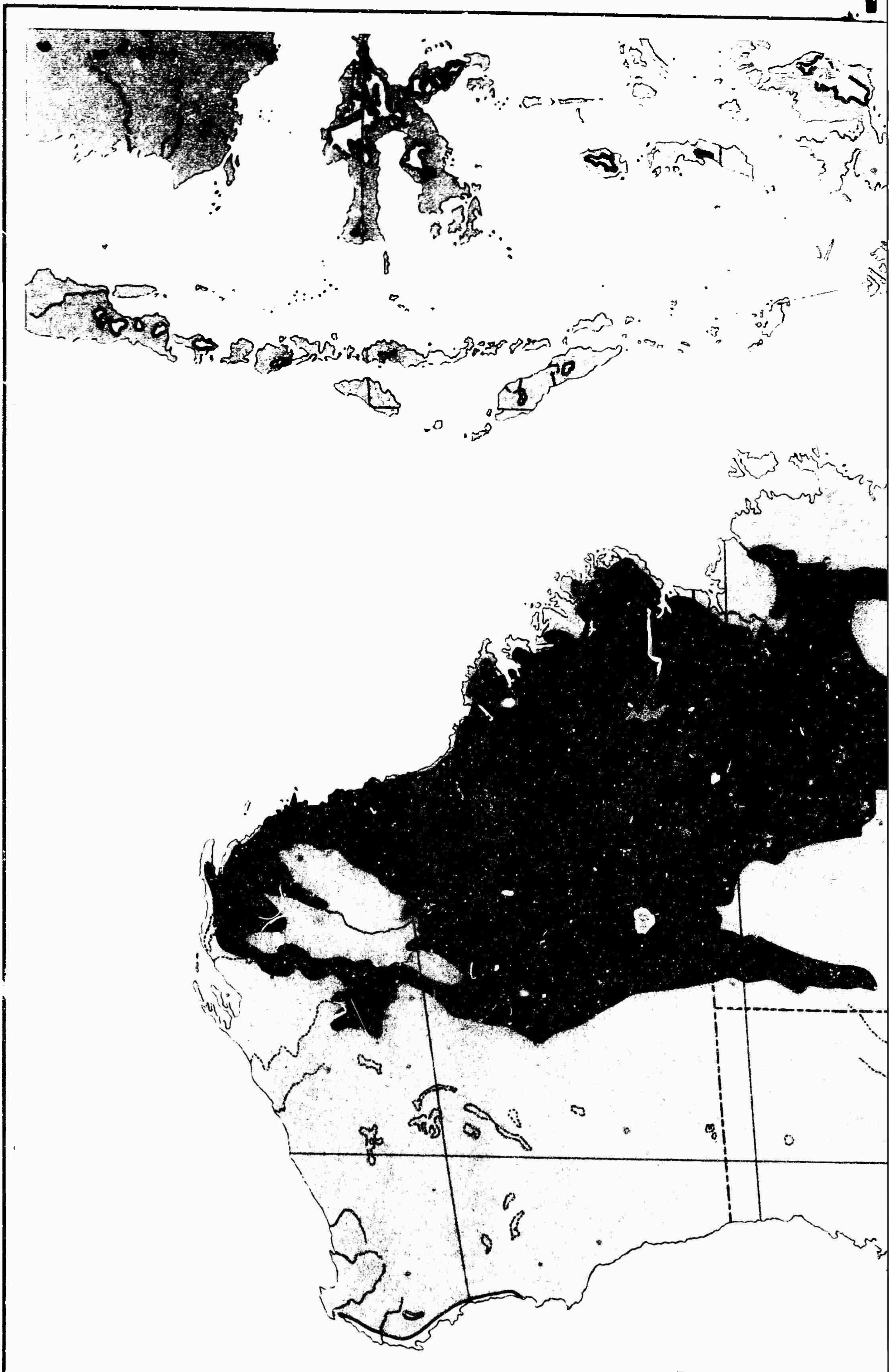
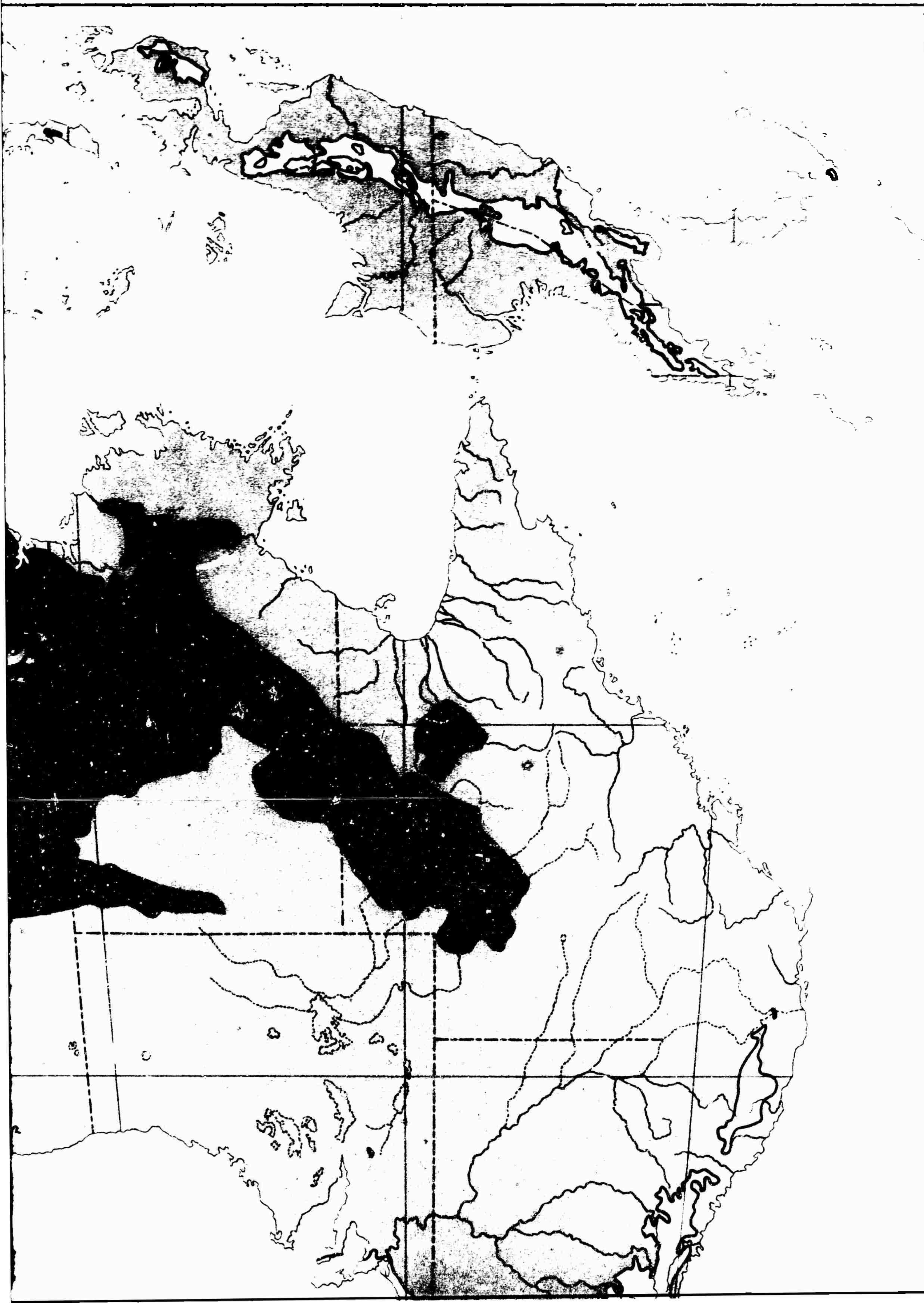
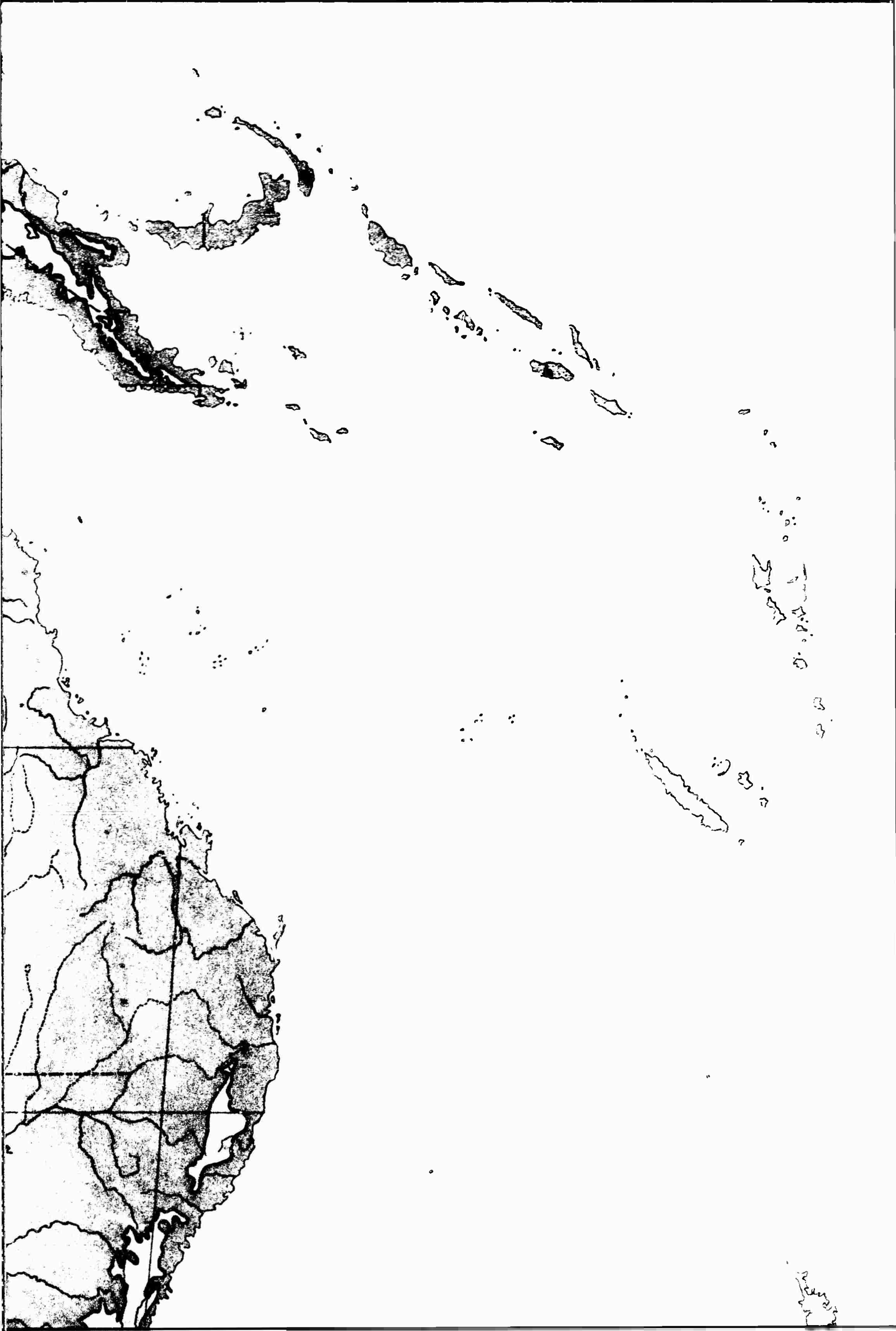
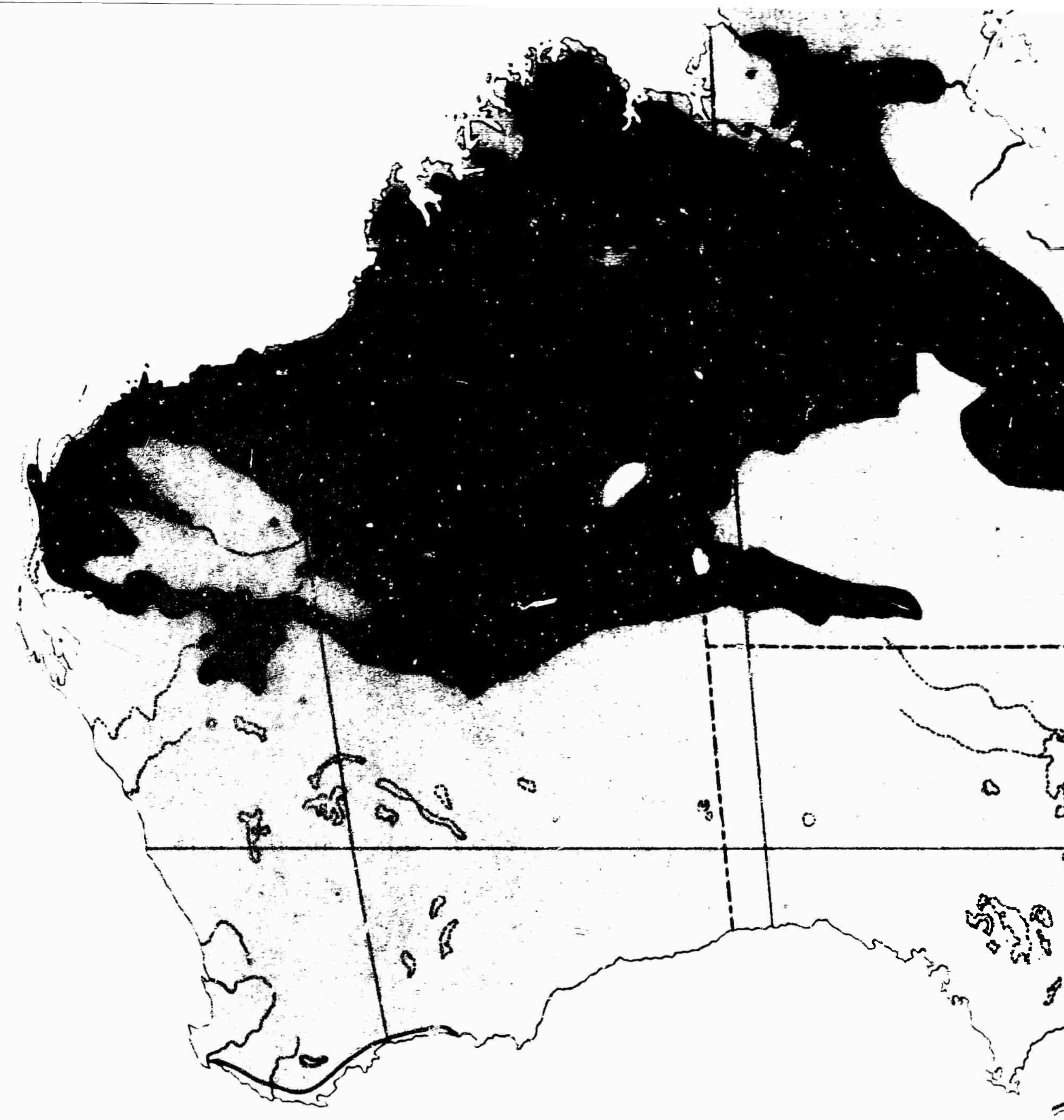




MAP 6





AUSTRALIA

MEAN TEMPERATURE

FEBRUARY

CENTIGRADE FAHRENHEIT

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

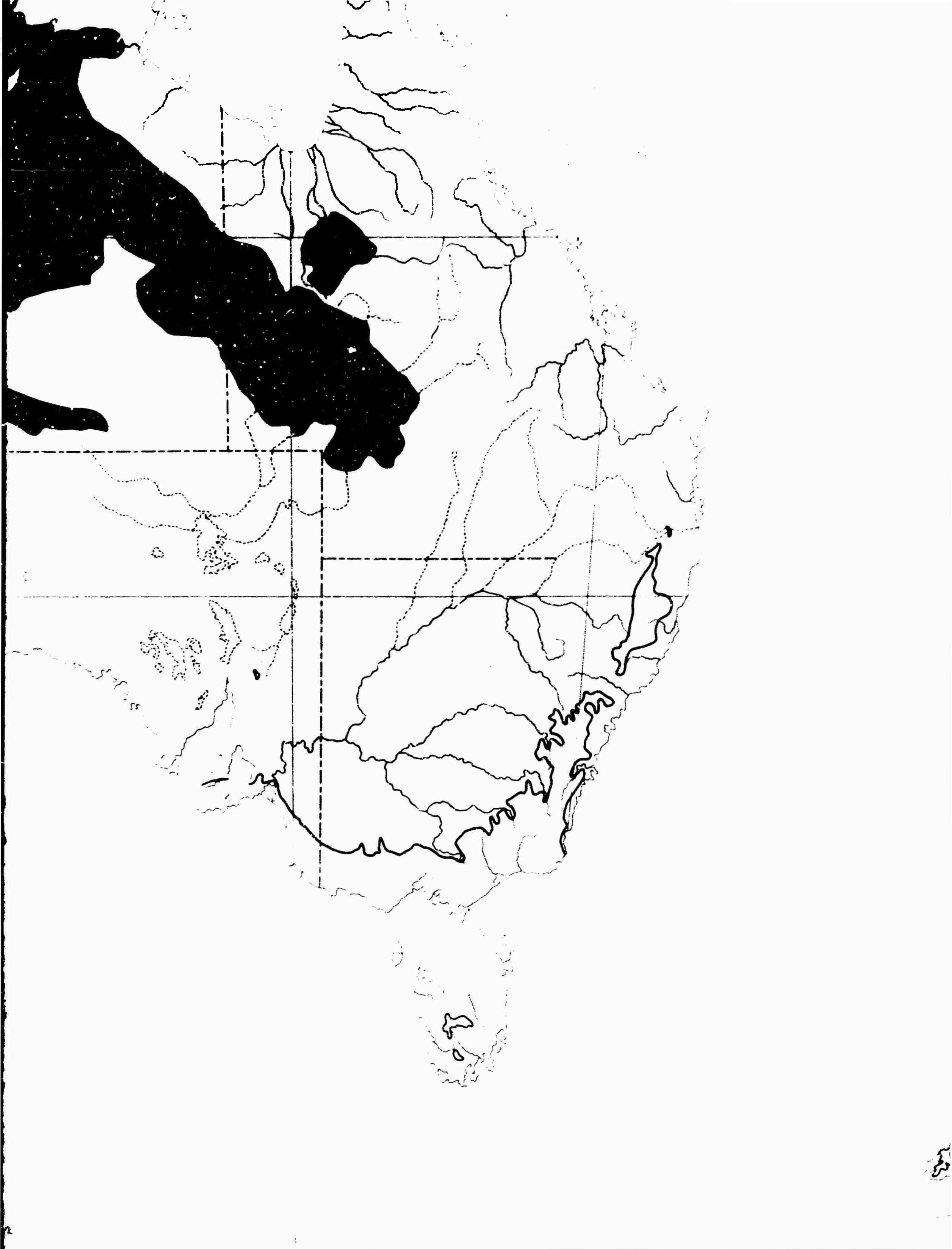
SCALE 1:12,000,000

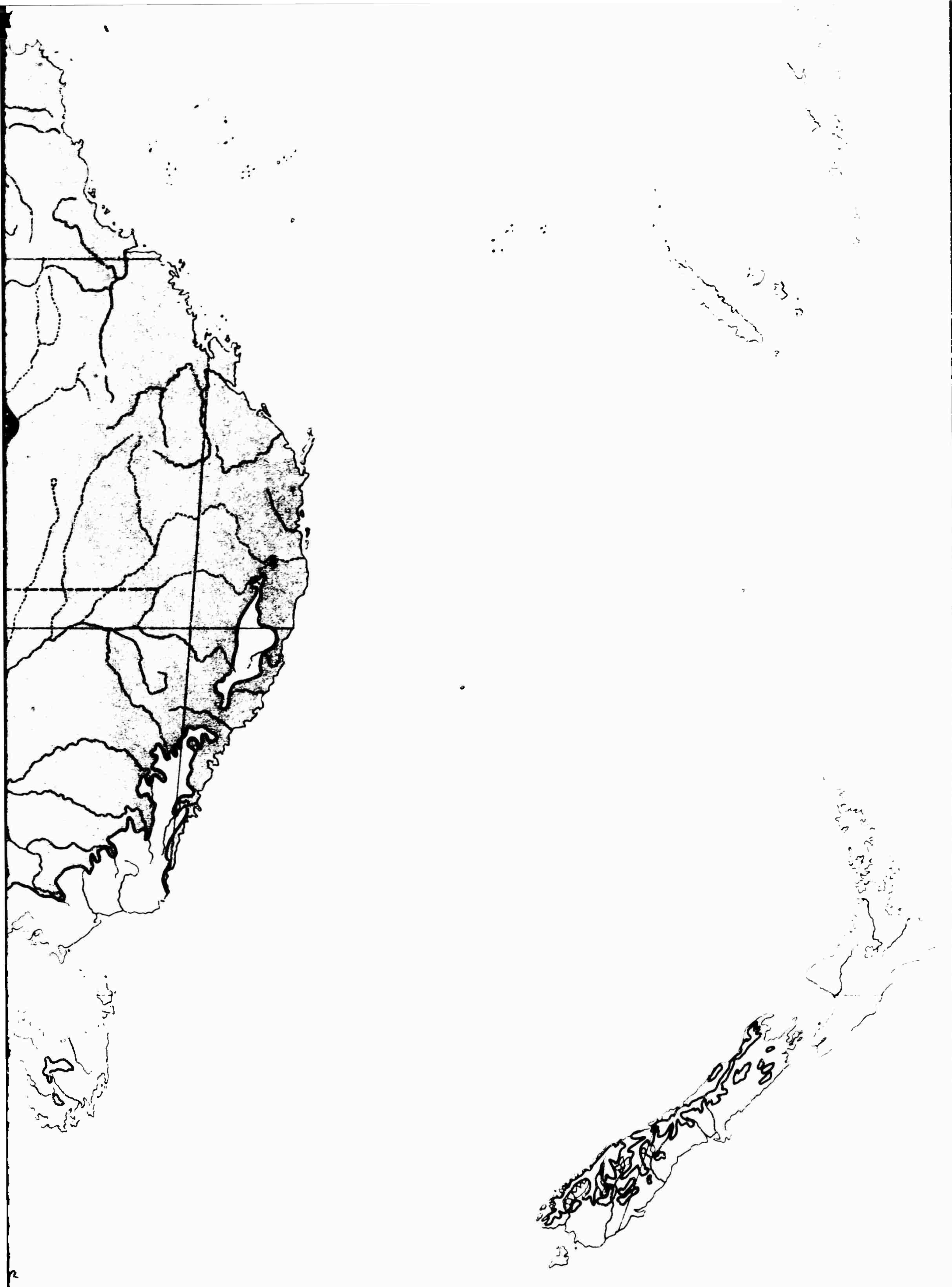
0 50 100 200 300 400 500

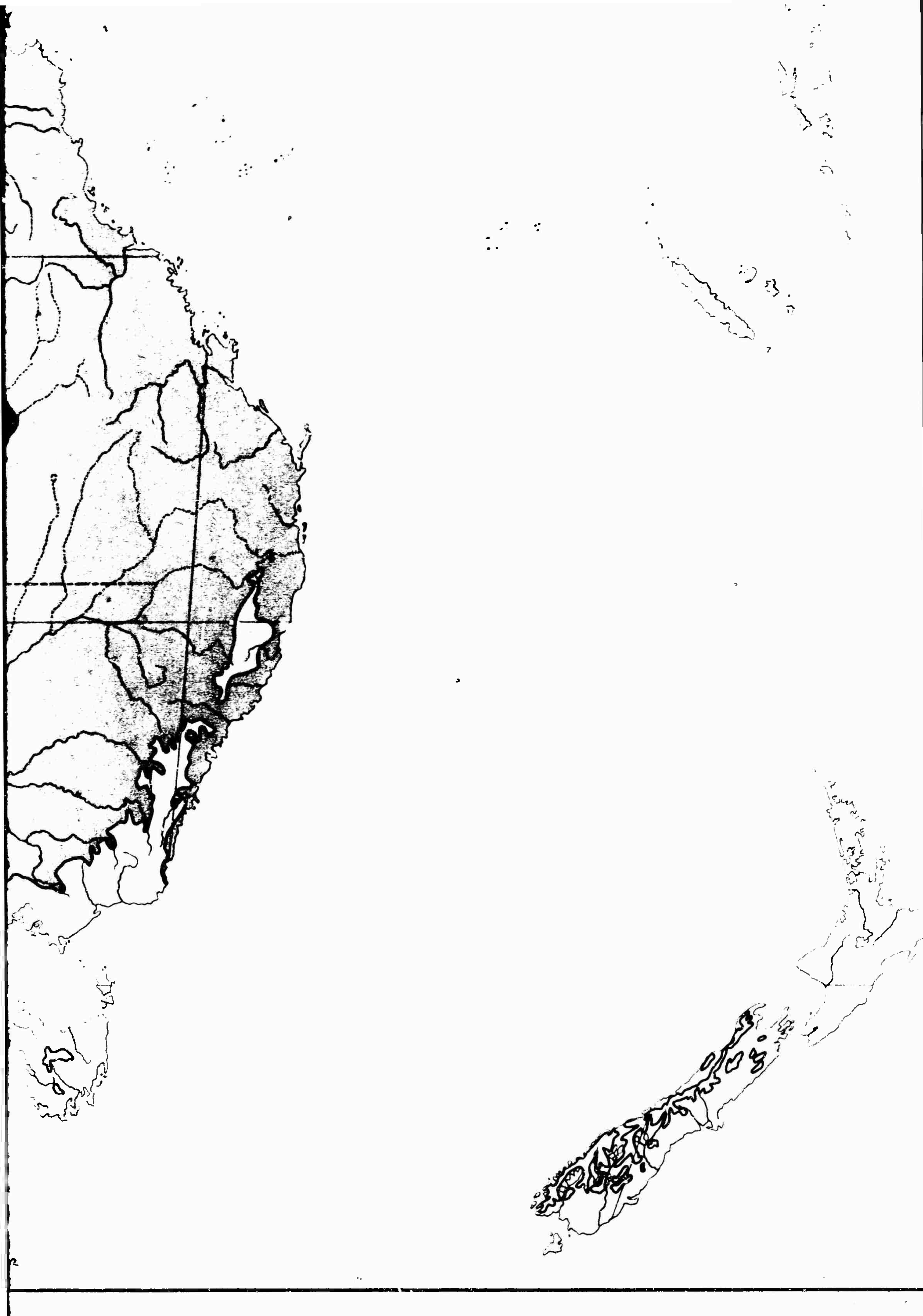
MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE







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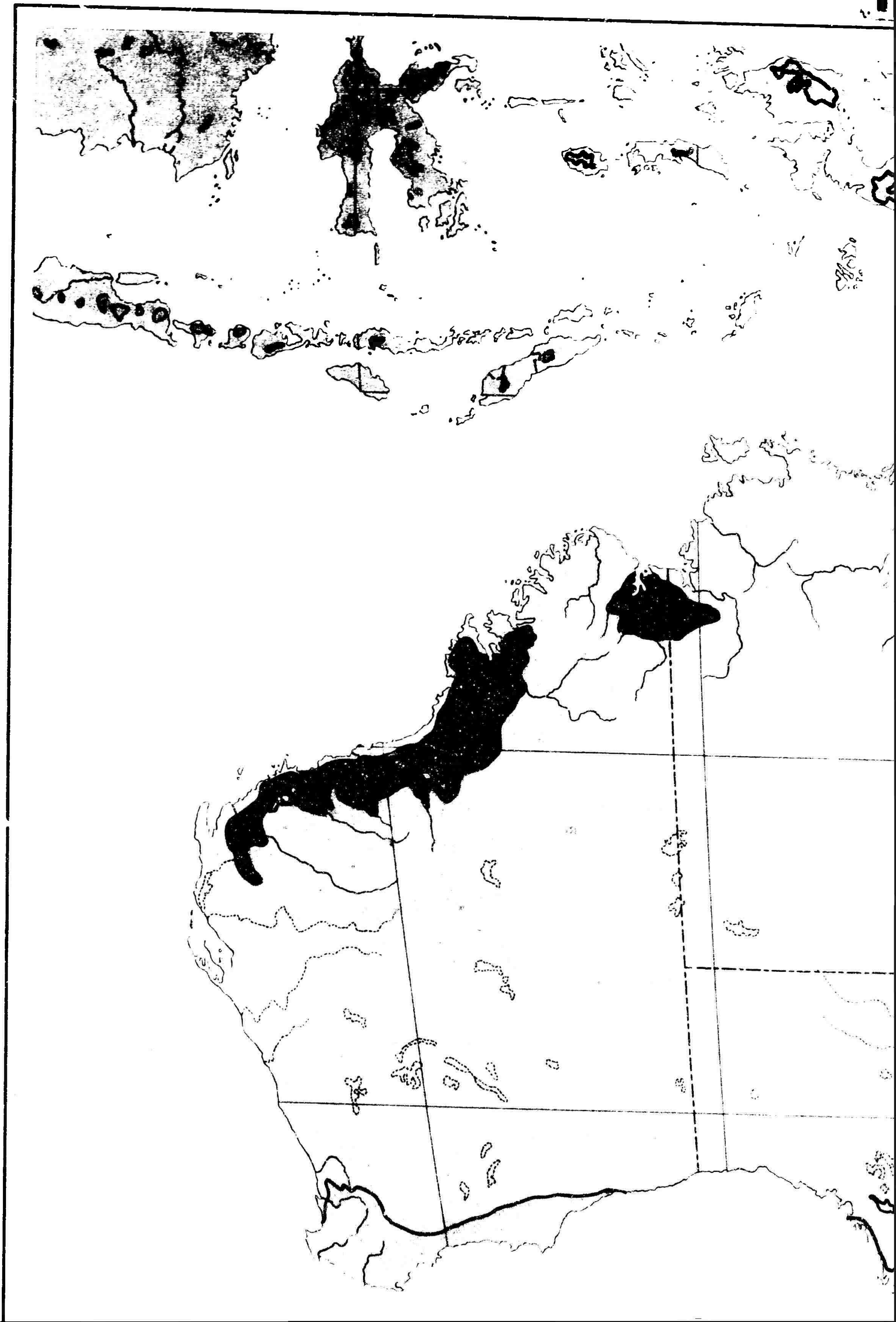
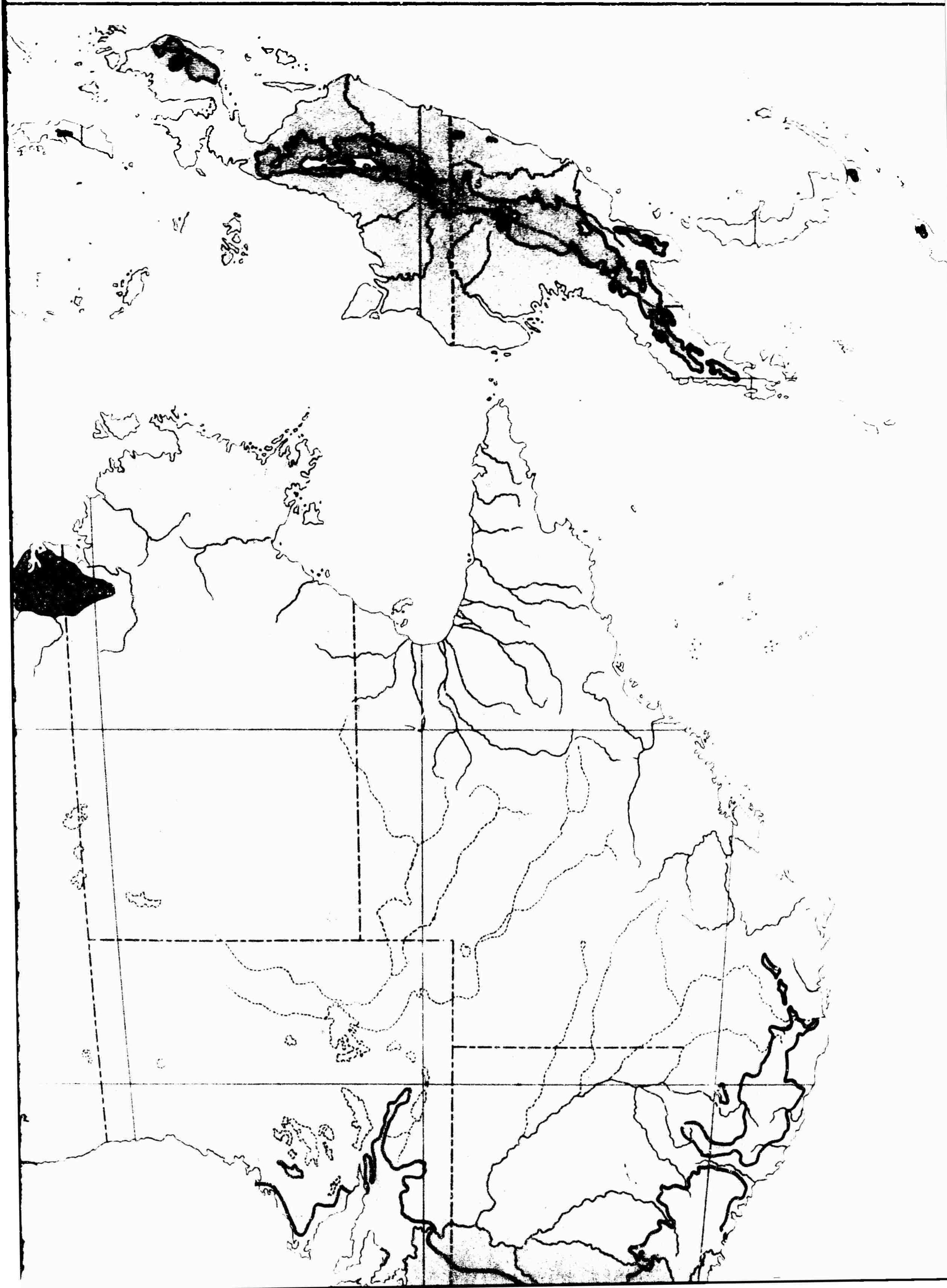
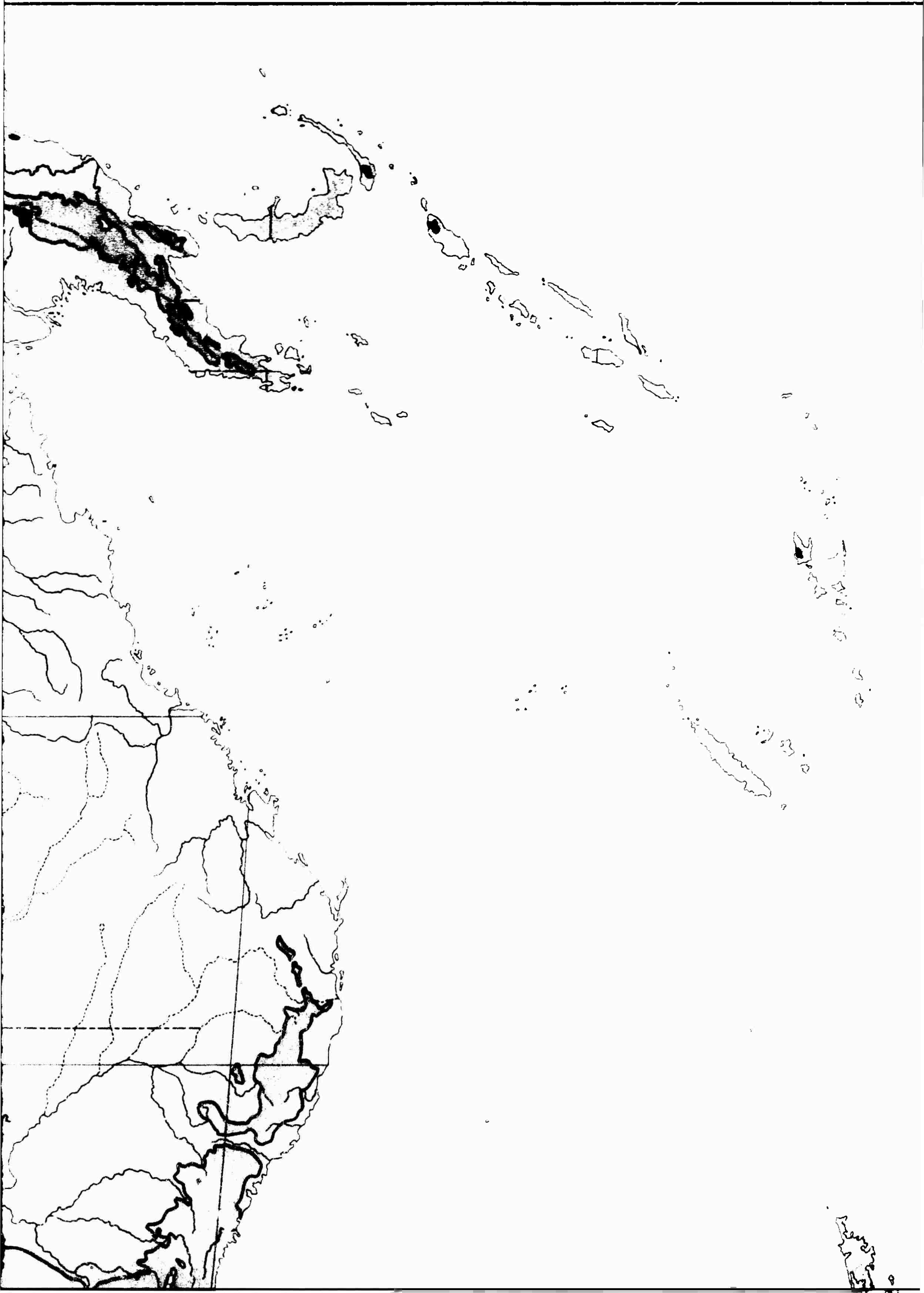
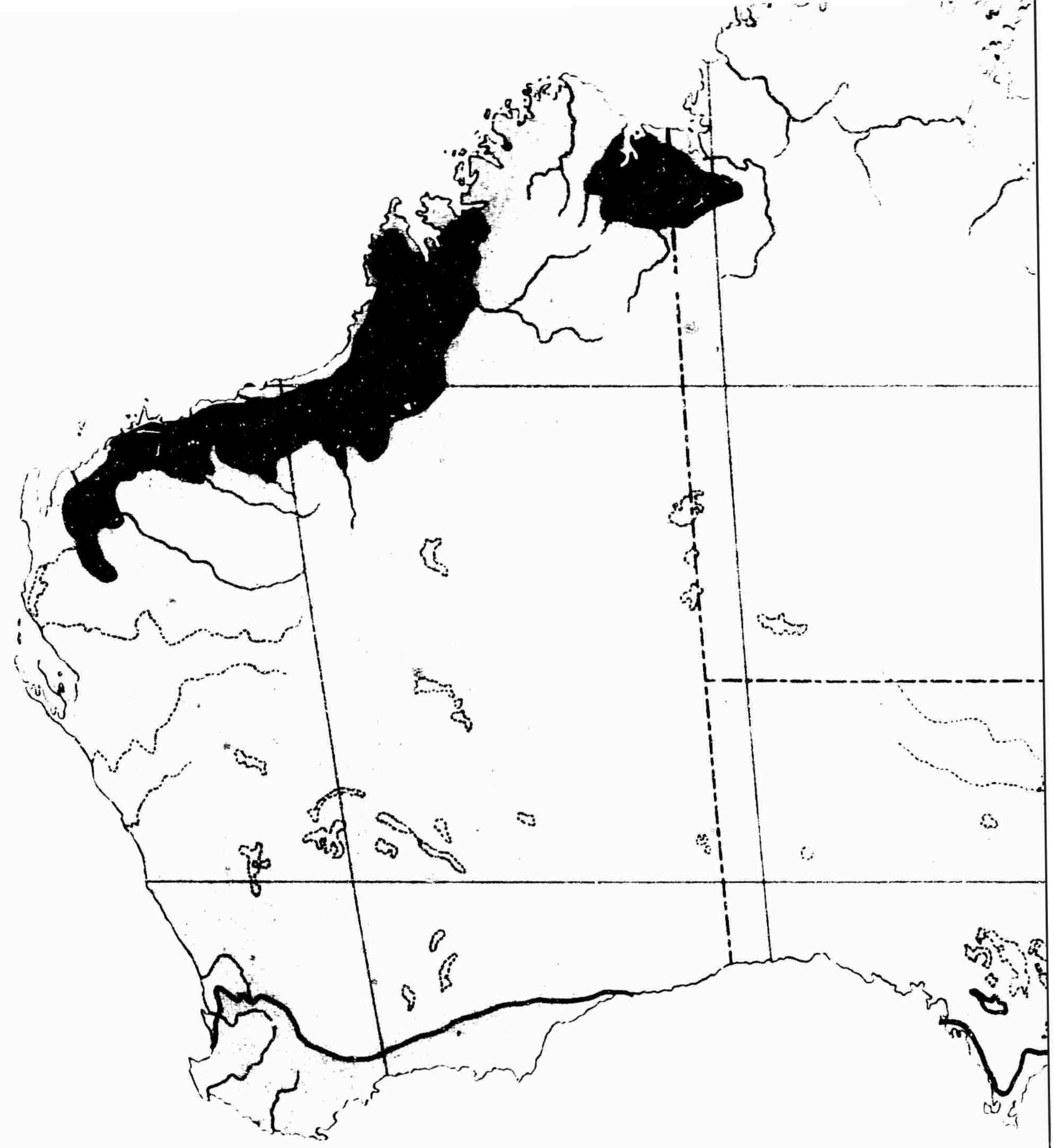




MAP

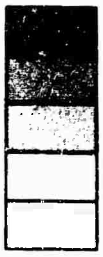




AUSTRALIA

MEAN TEMPERATURE
MARCH

CENTIGRADE FAHRENHEIT



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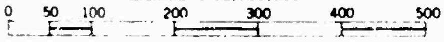
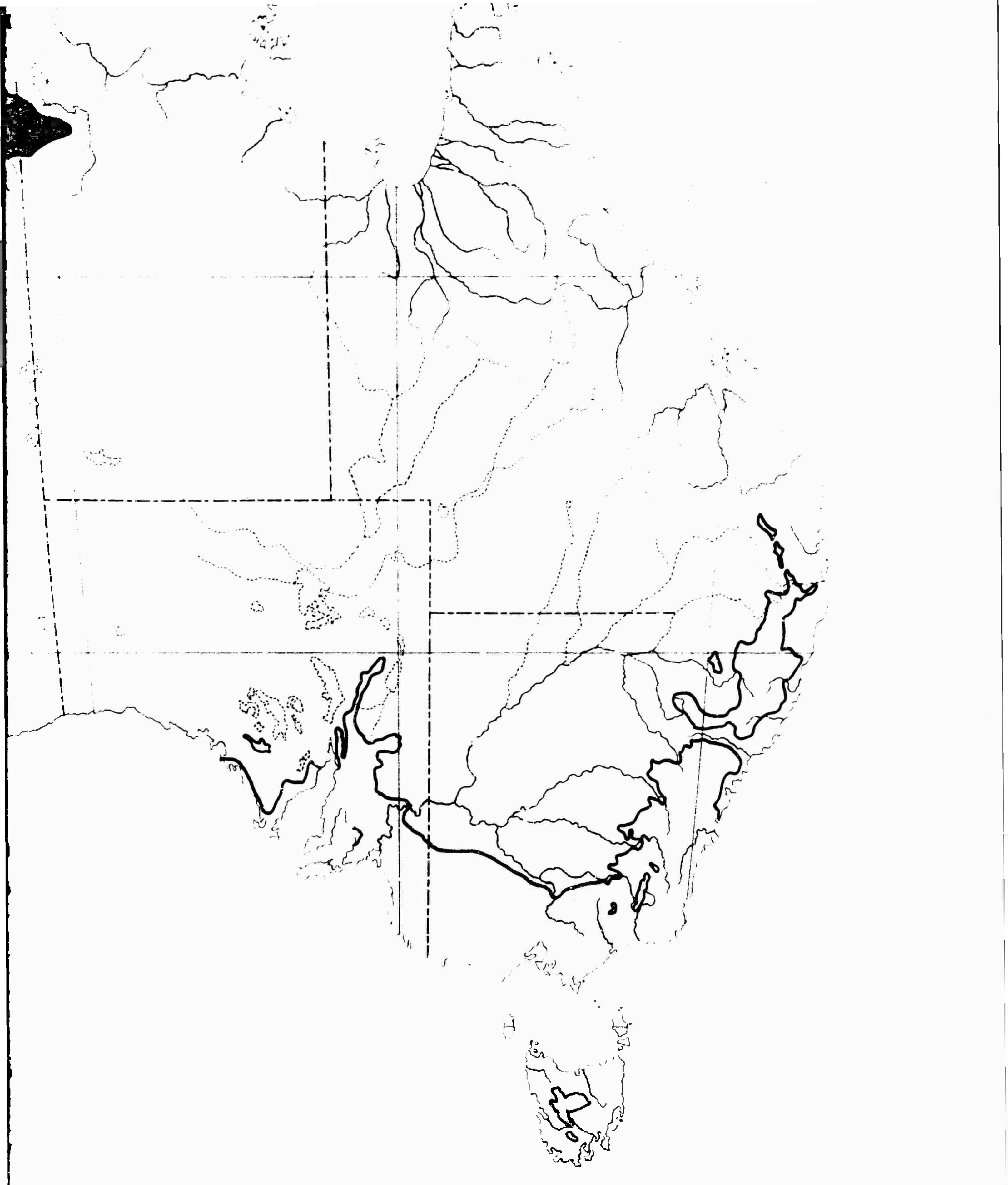
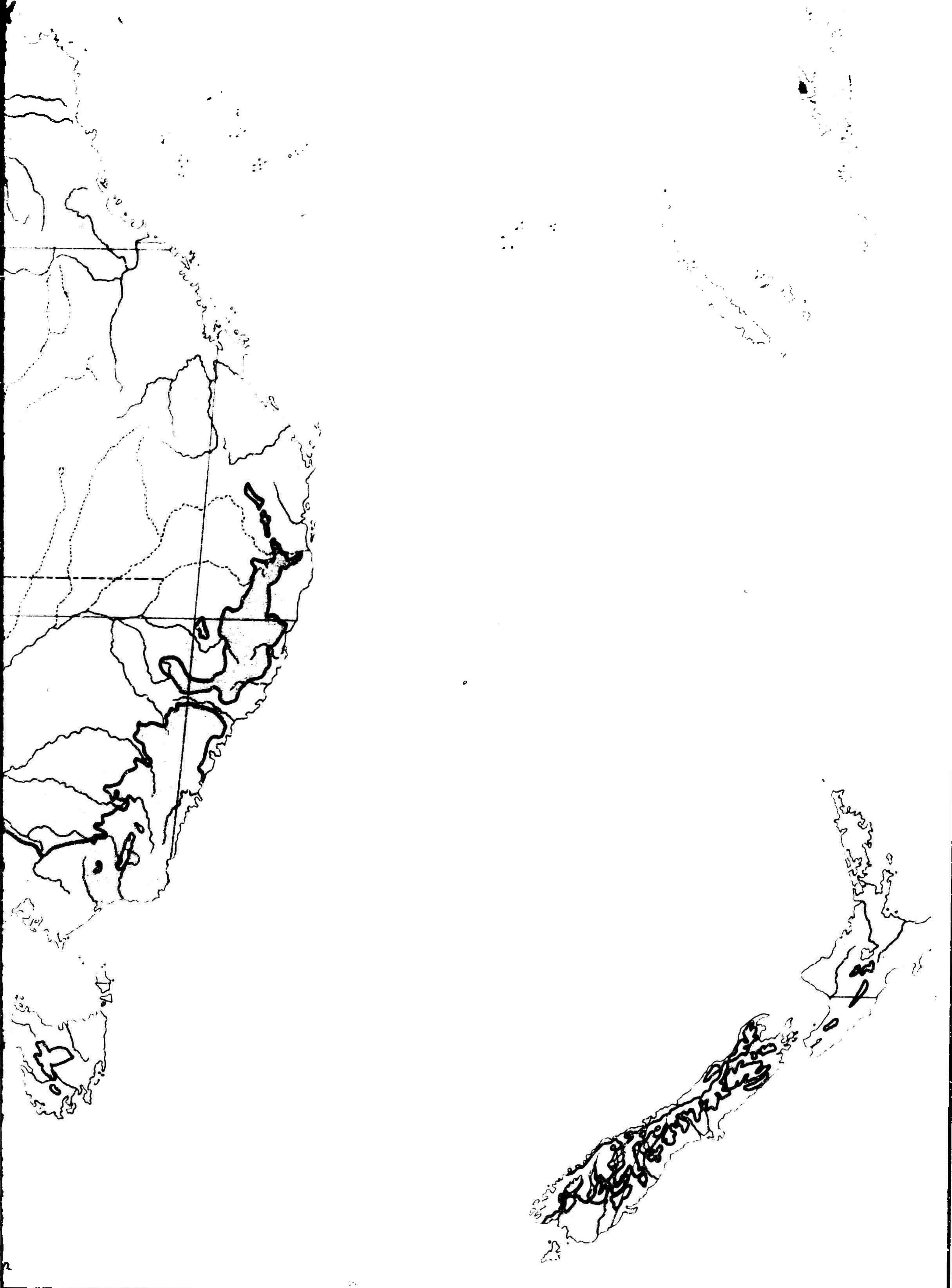


SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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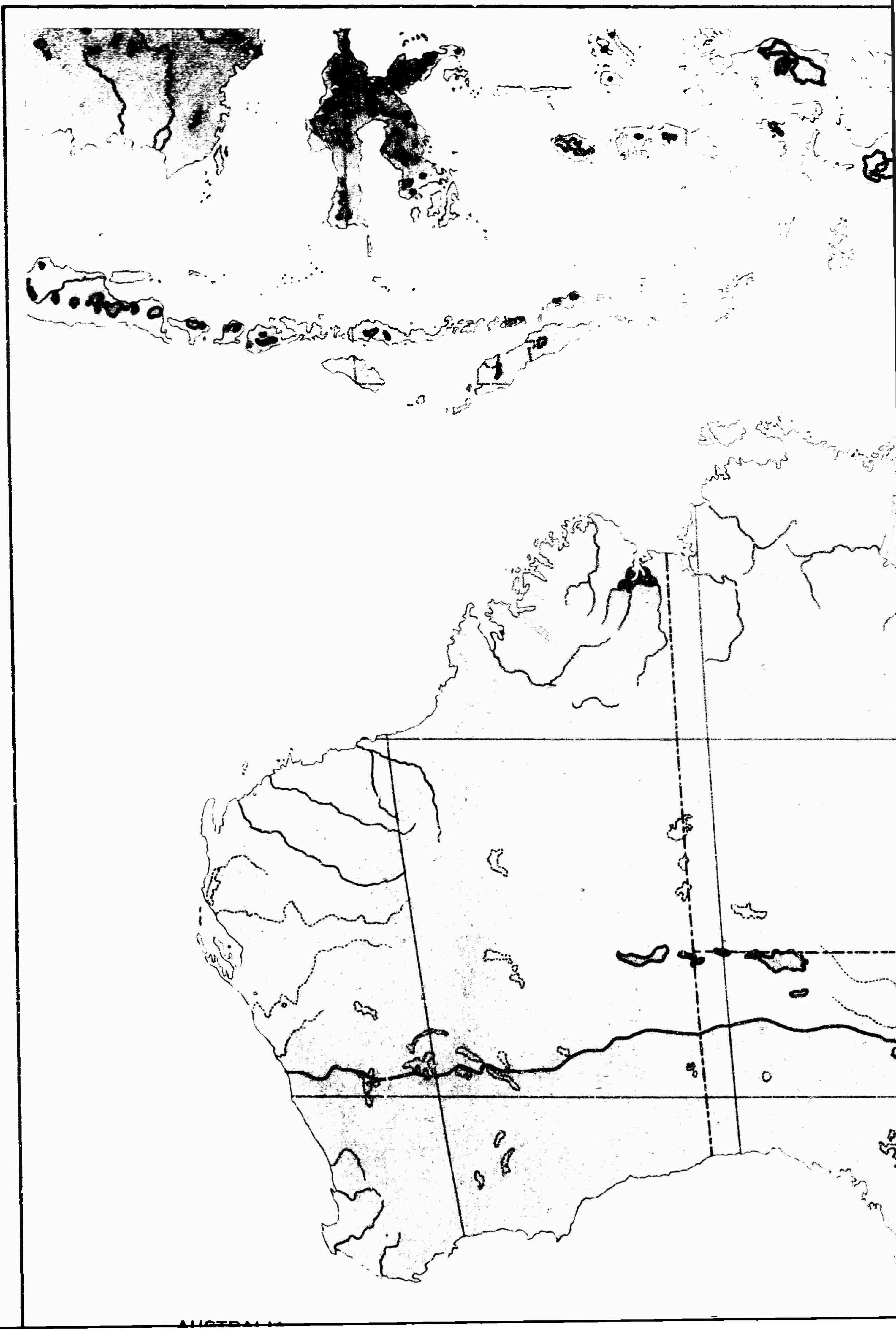
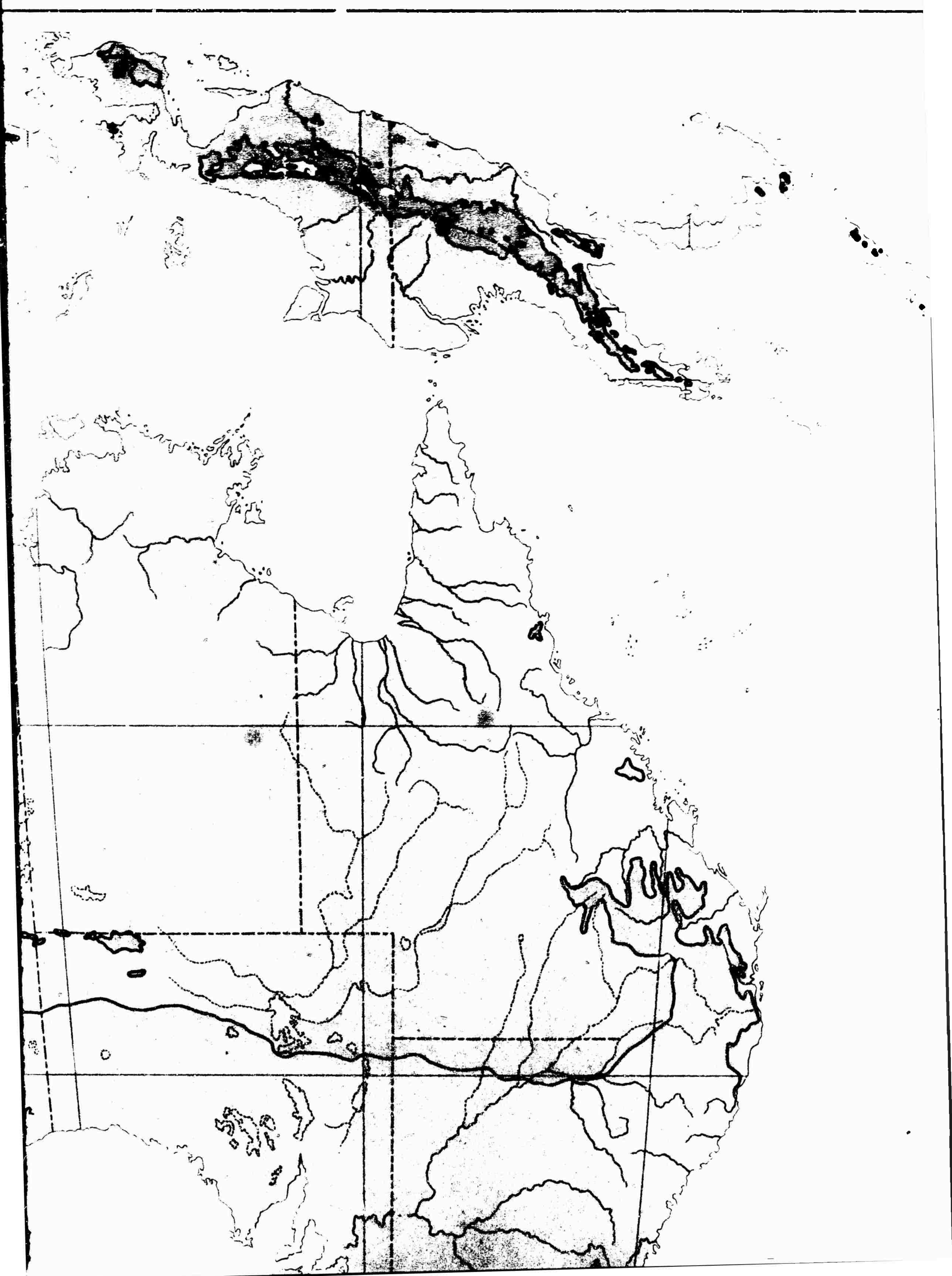
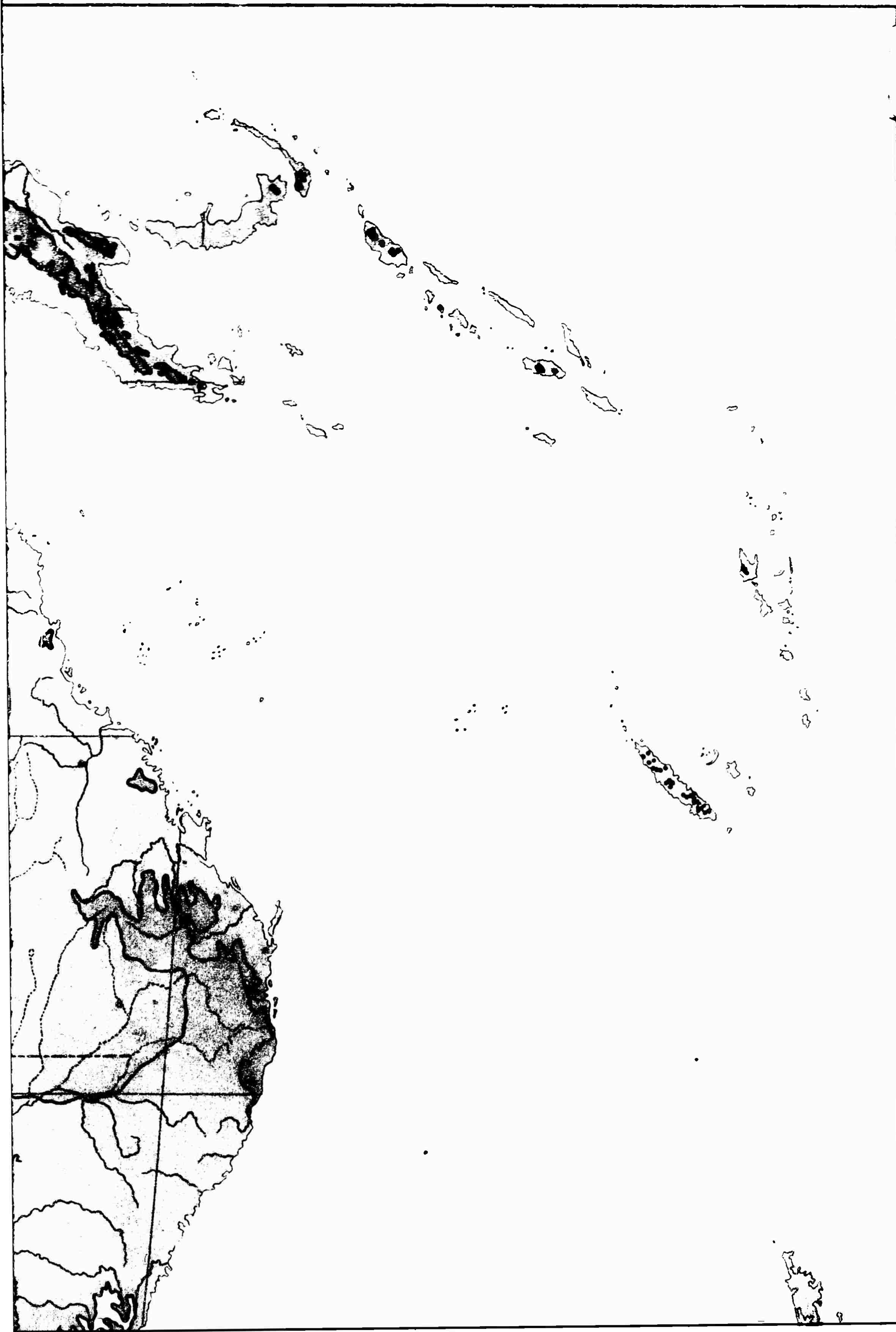
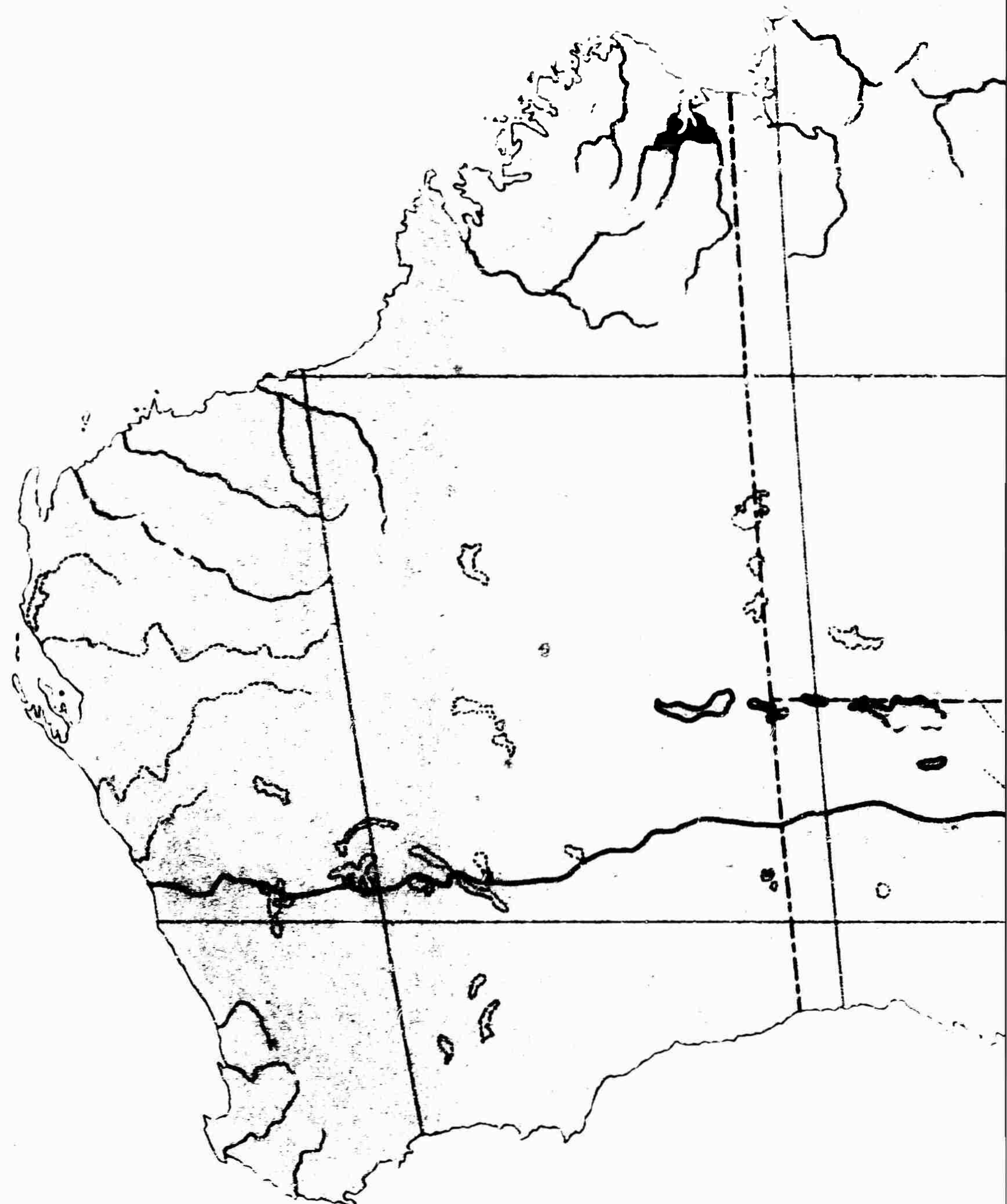








AUSTRALIA

MEAN TEMPERATURE

APRIL

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

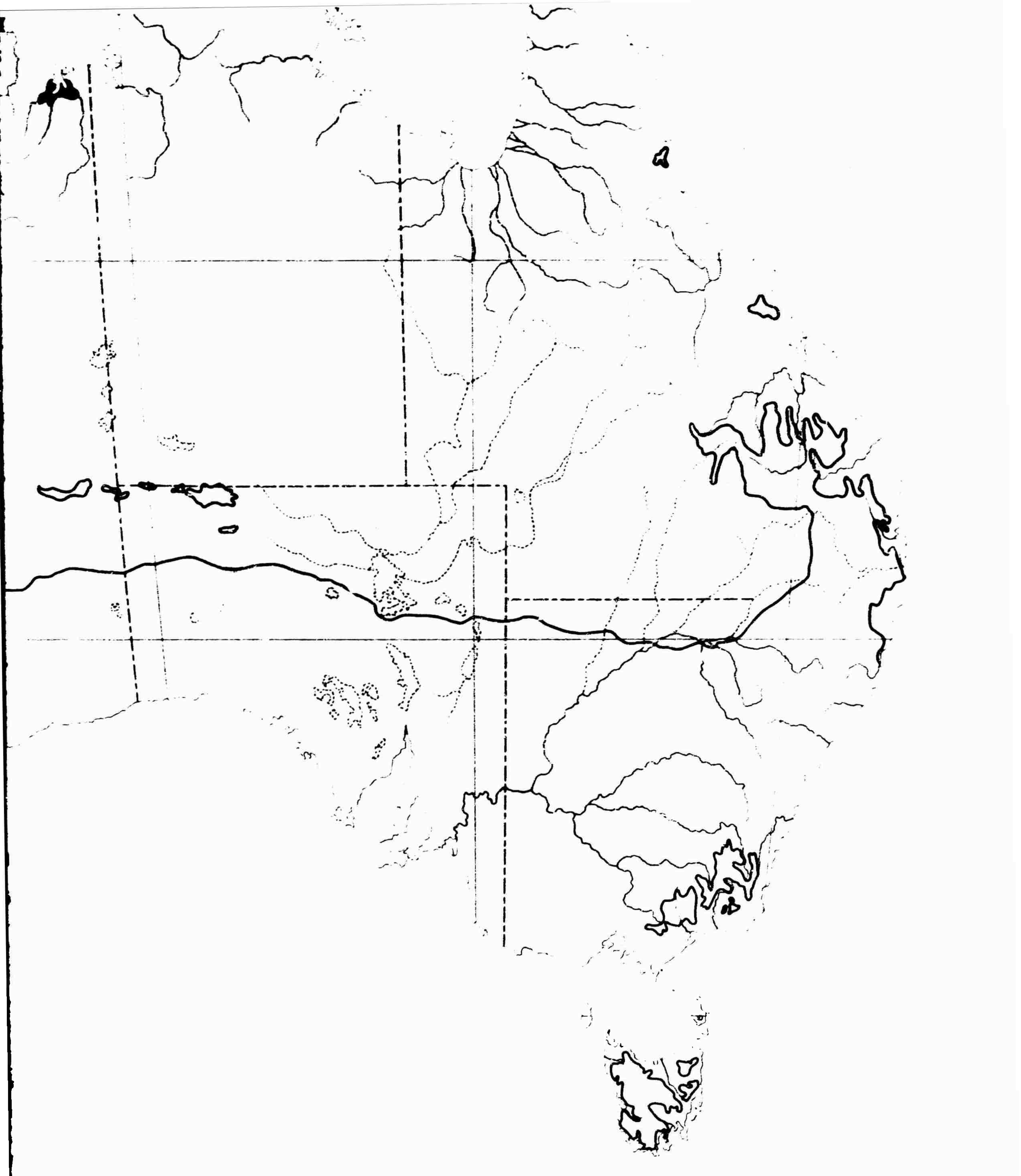
SCALE 1:12,000,000

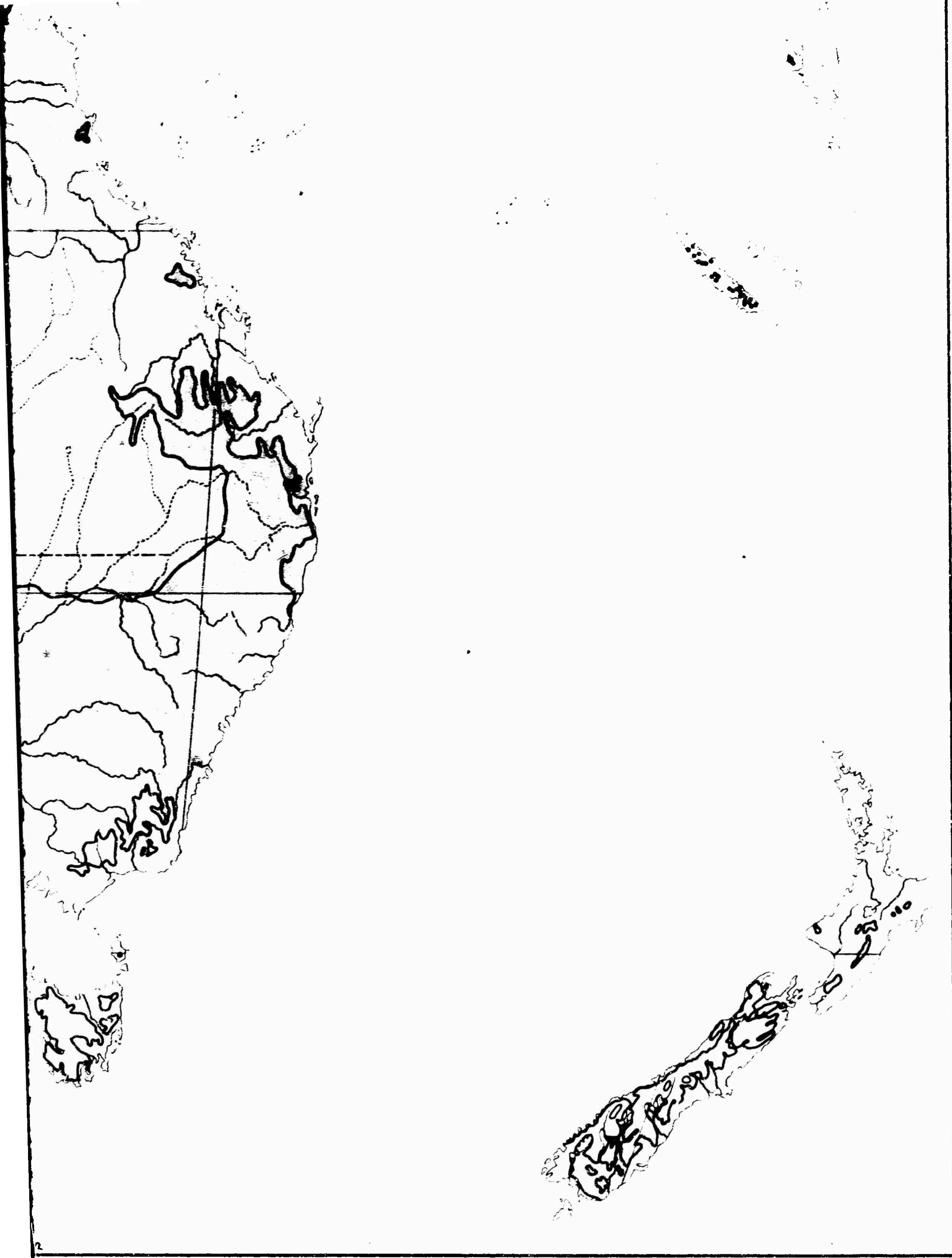
0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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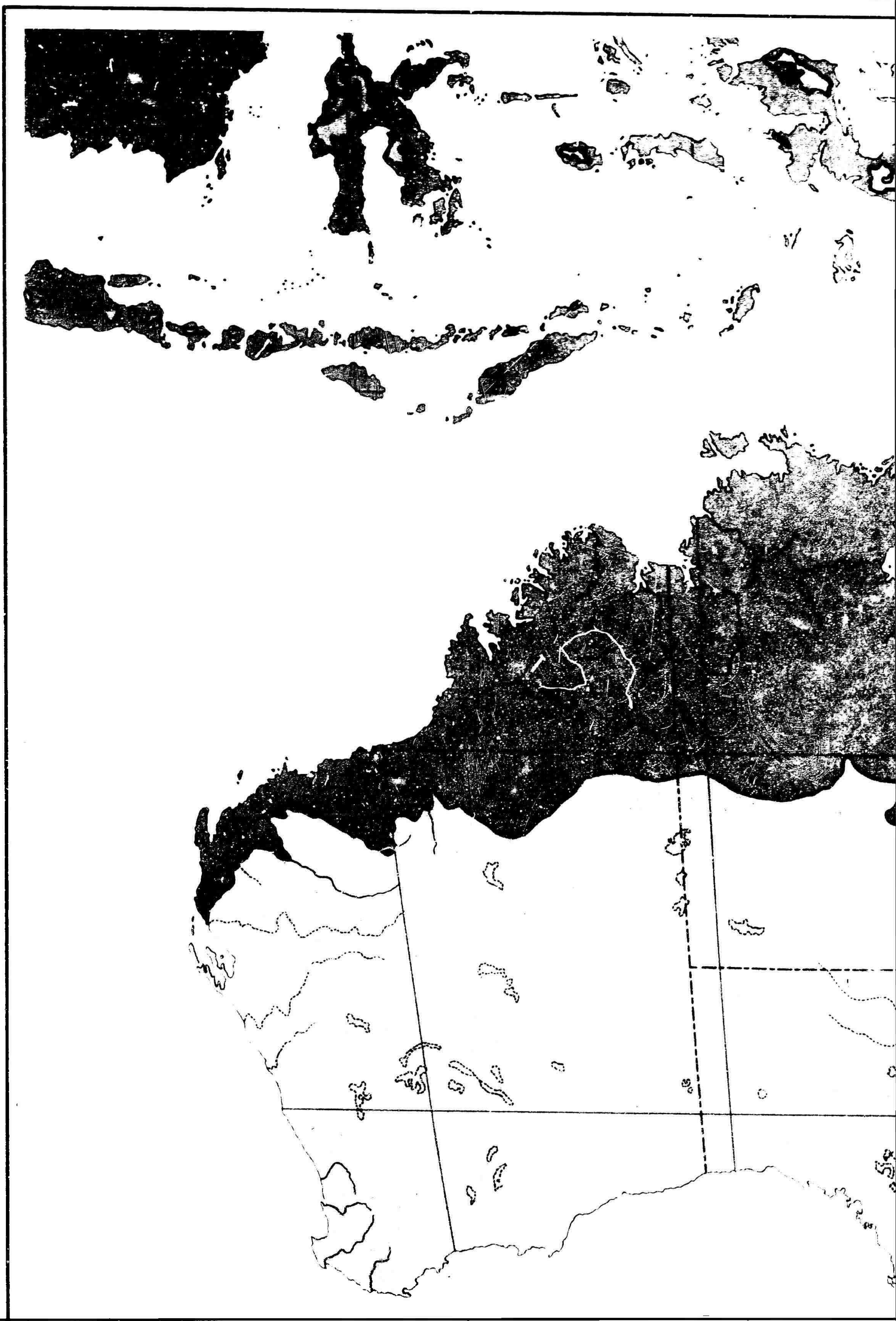
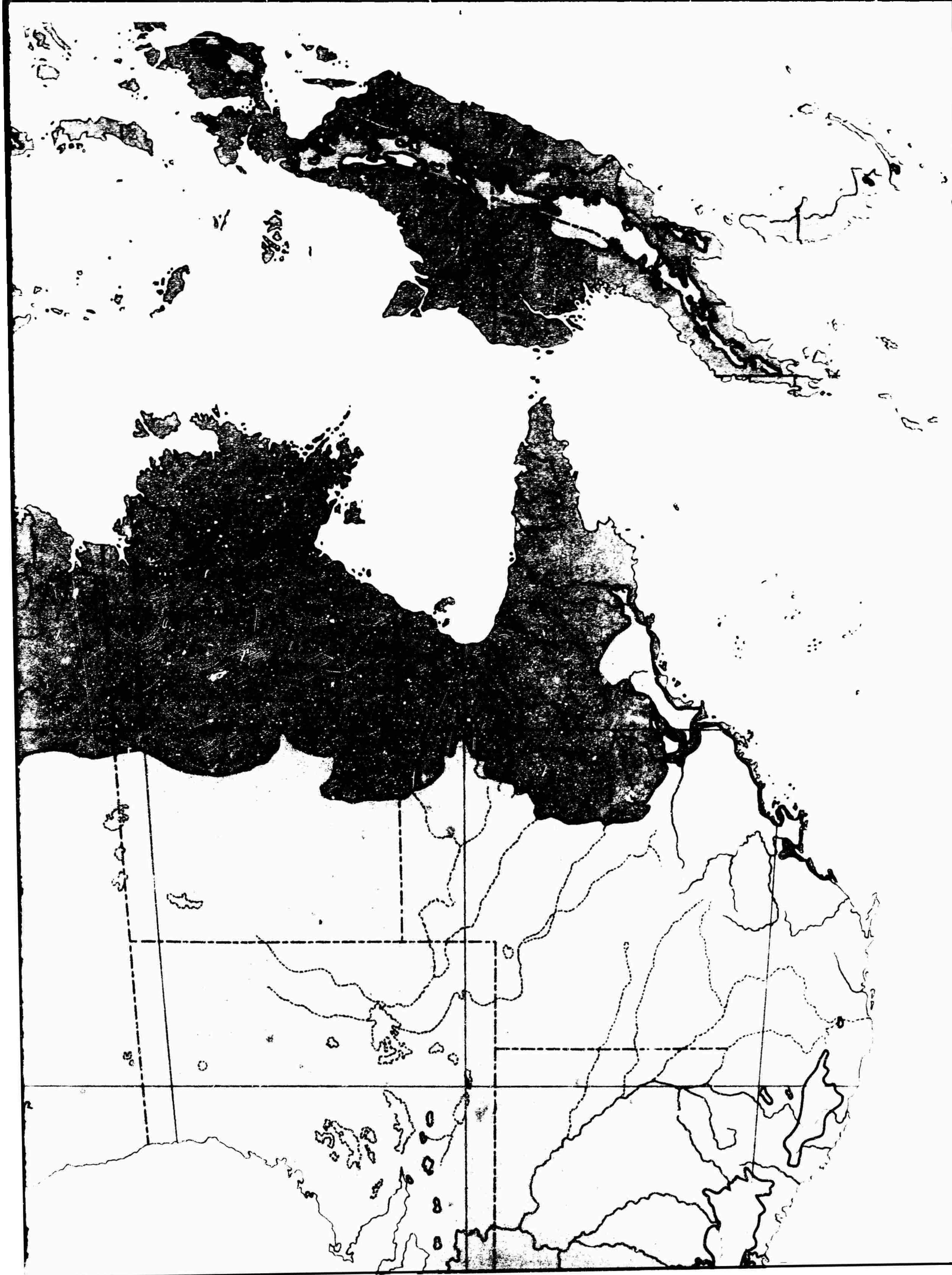
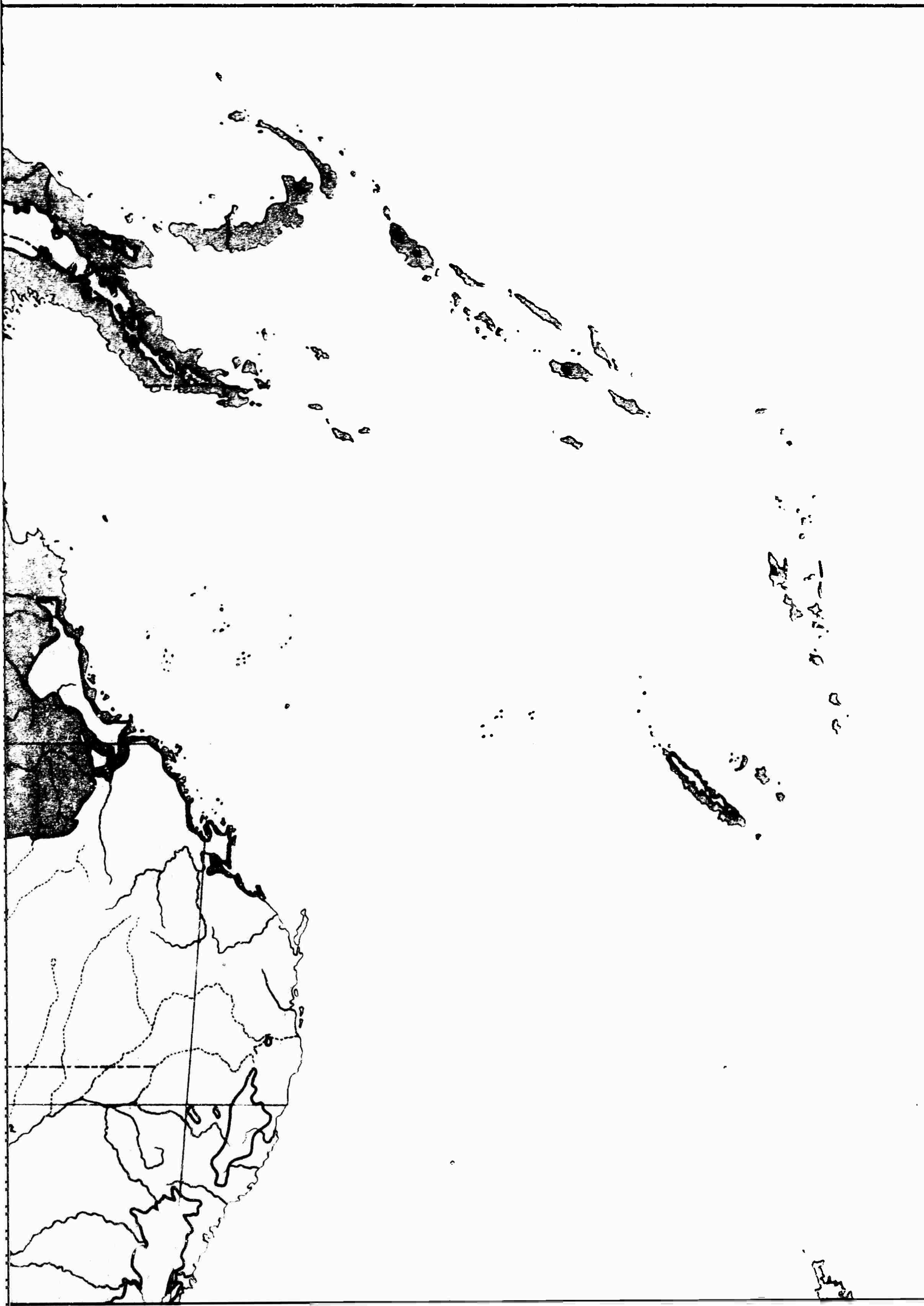
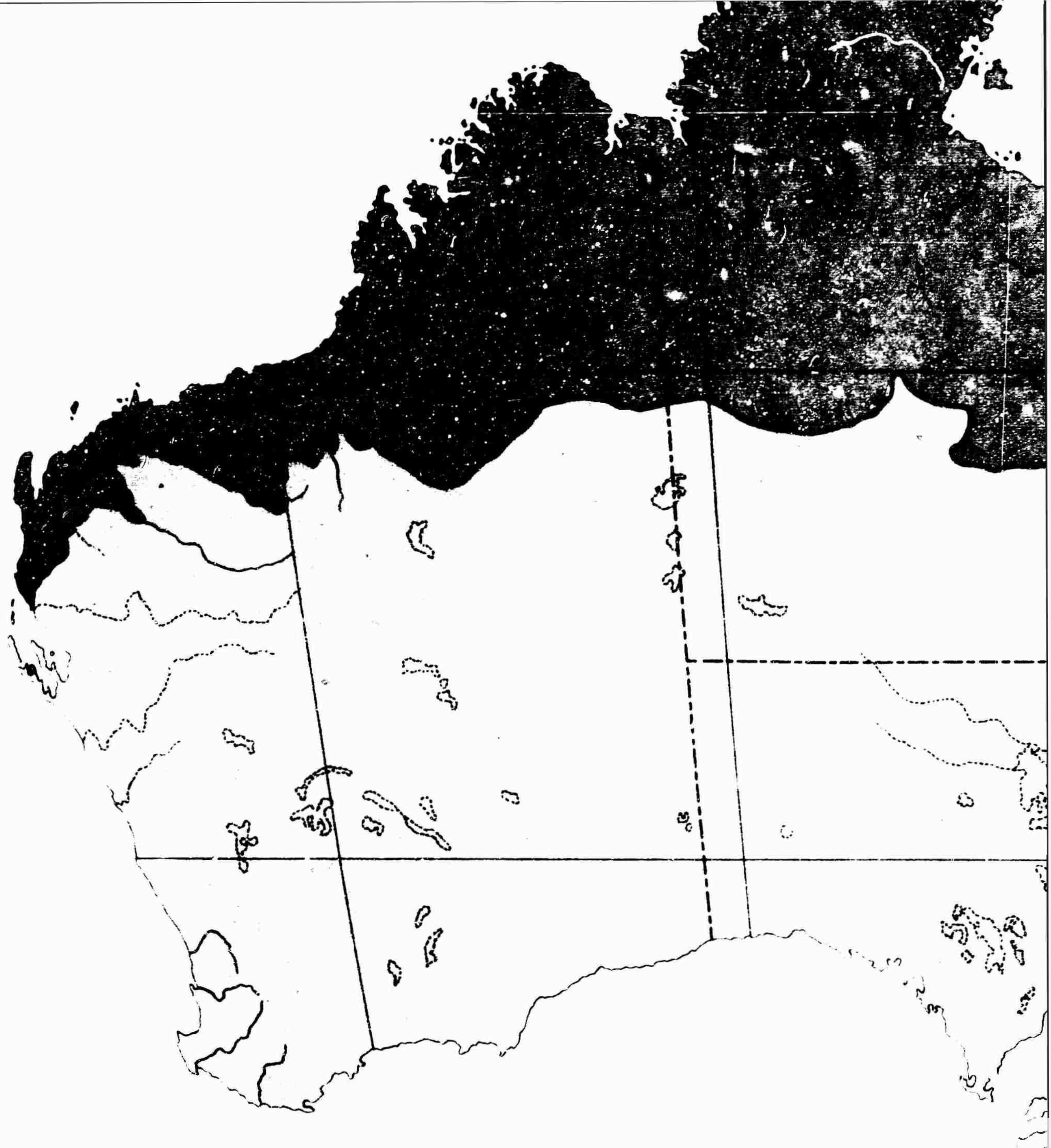








AUSTRALIA

MEAN TEMPERATURE

MAY

CENTIGRADE FAHRENHEIT

CENTIGRADE	FAHRENHEIT
20°	68°
10°	50°
0°	32°

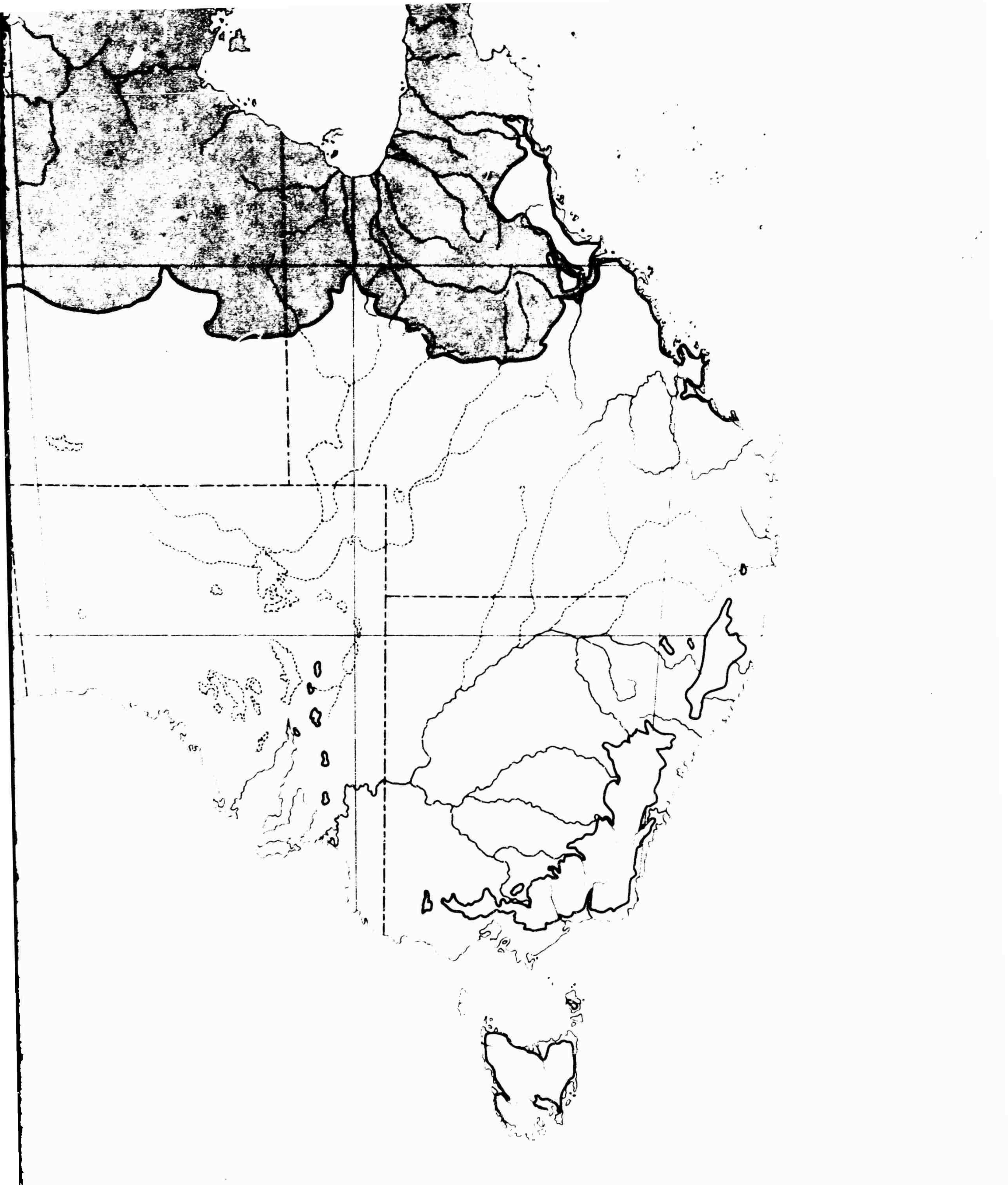
SCALE 1:12,000,000

0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE



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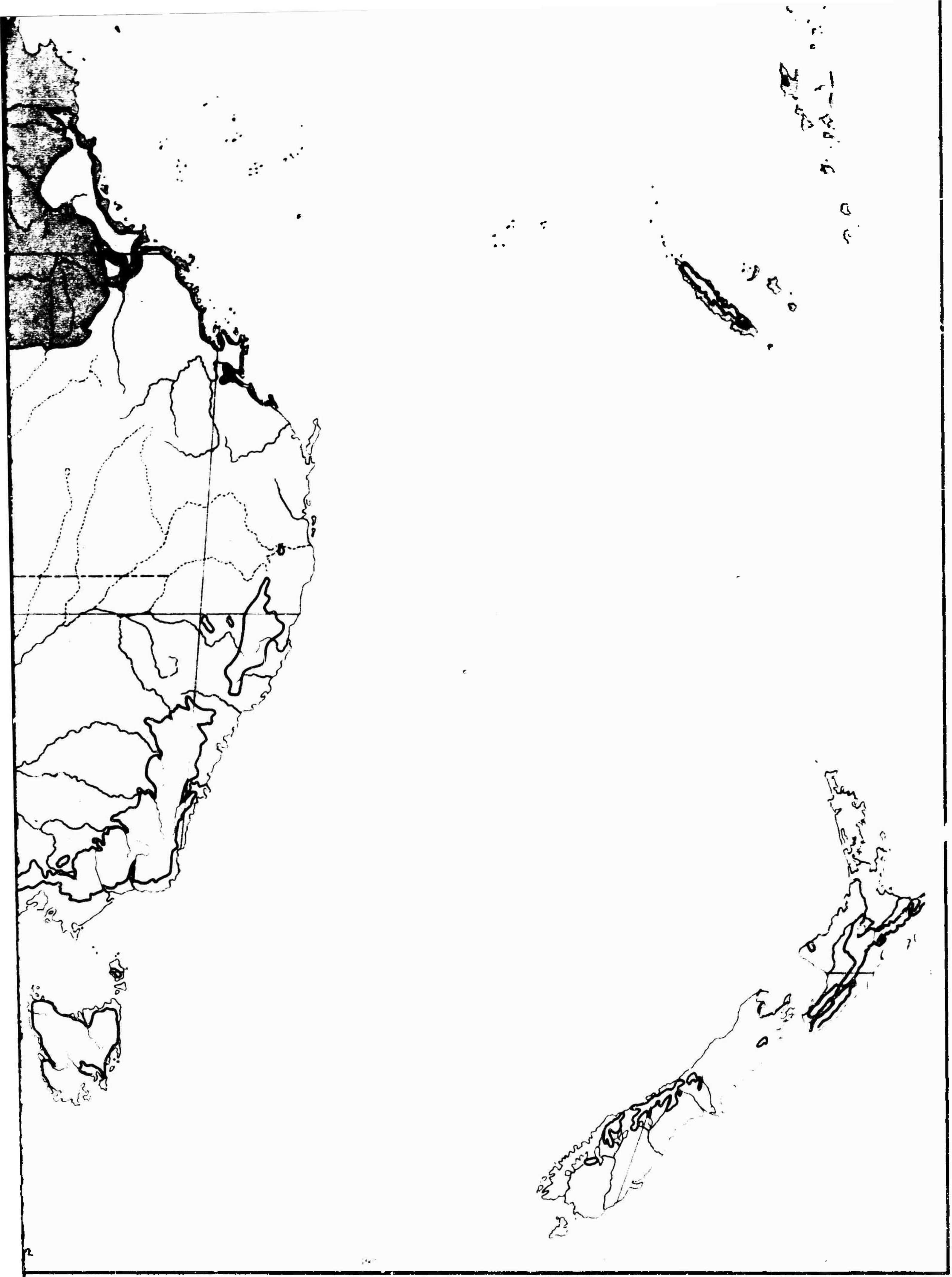

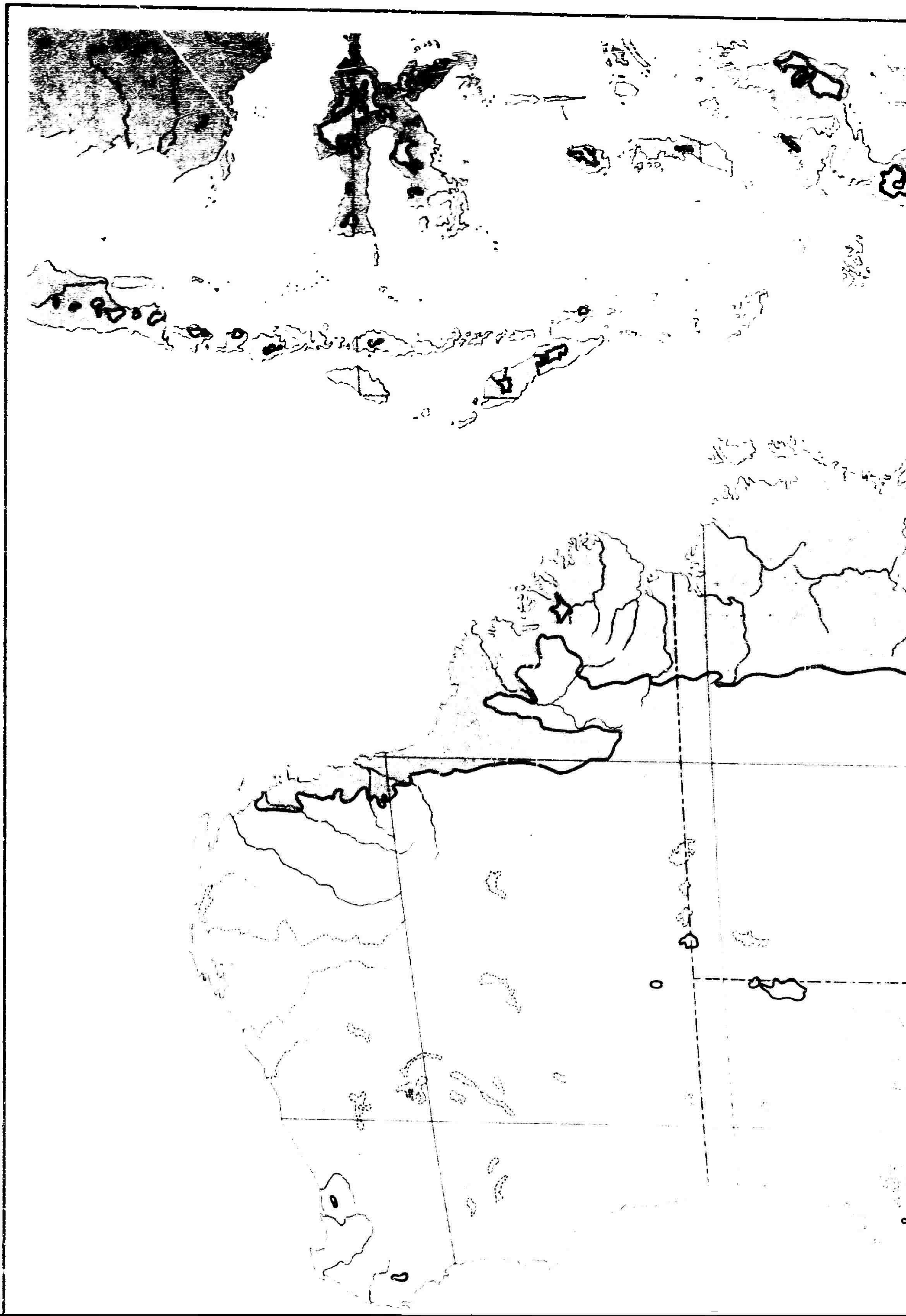

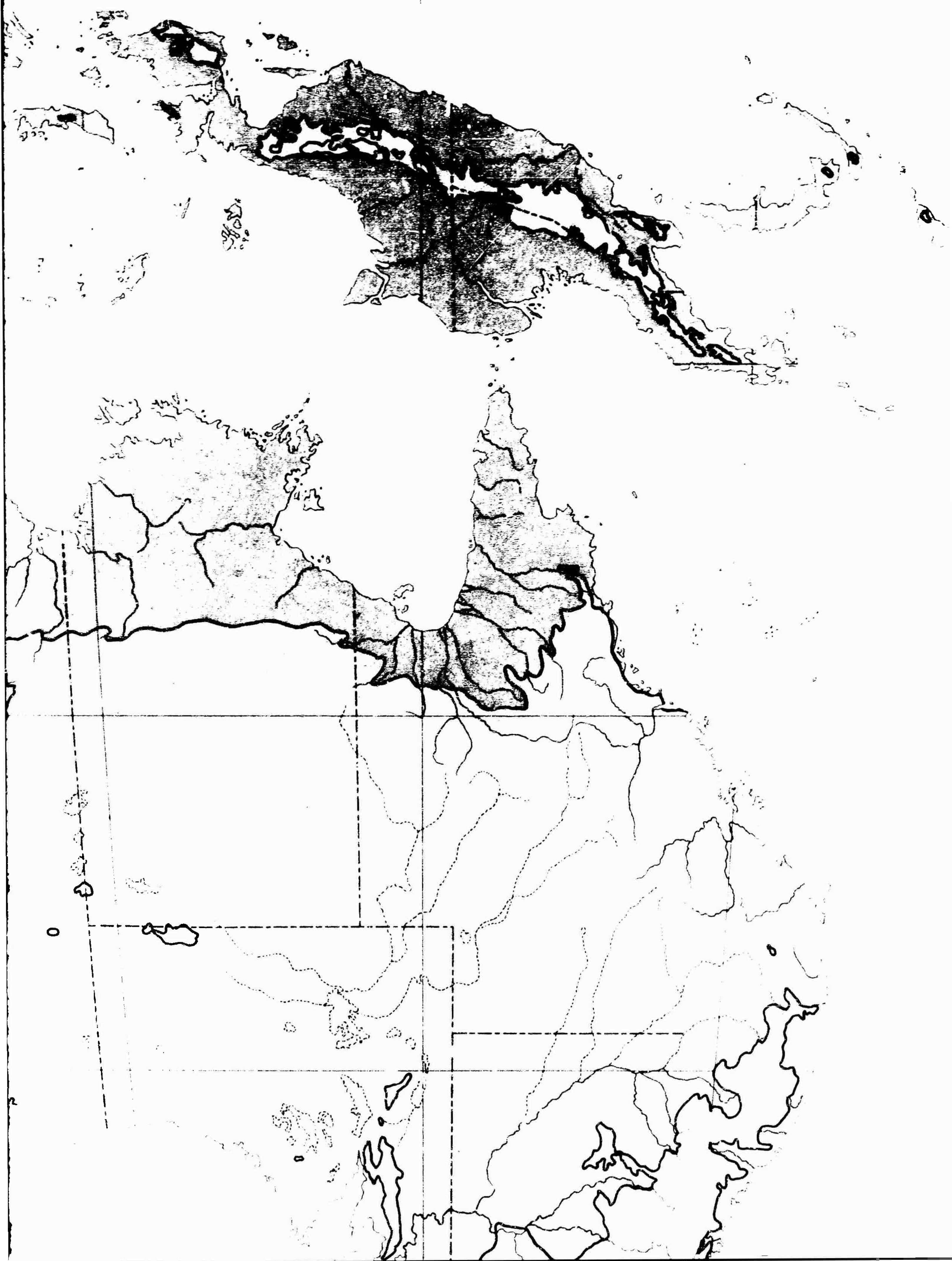

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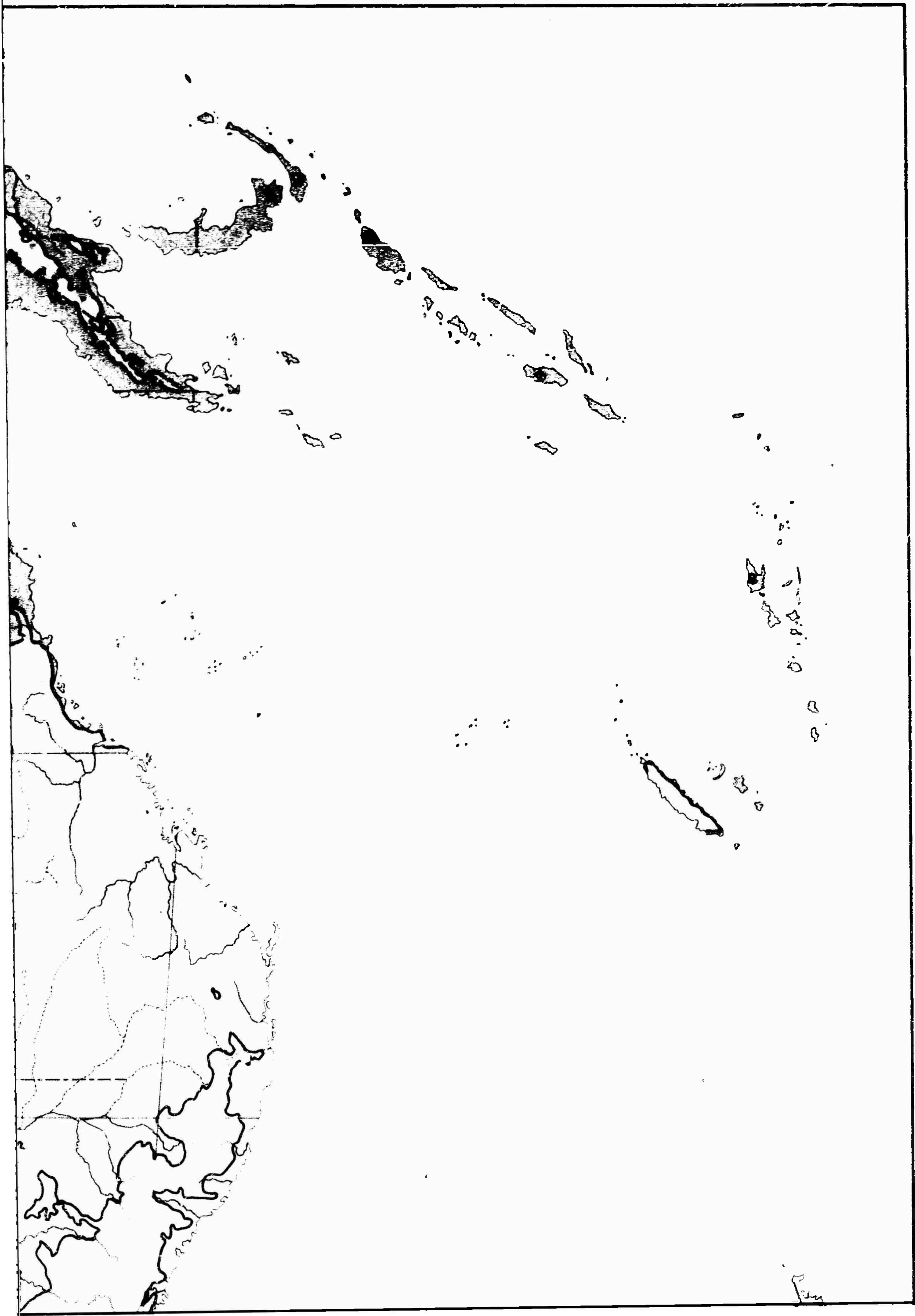
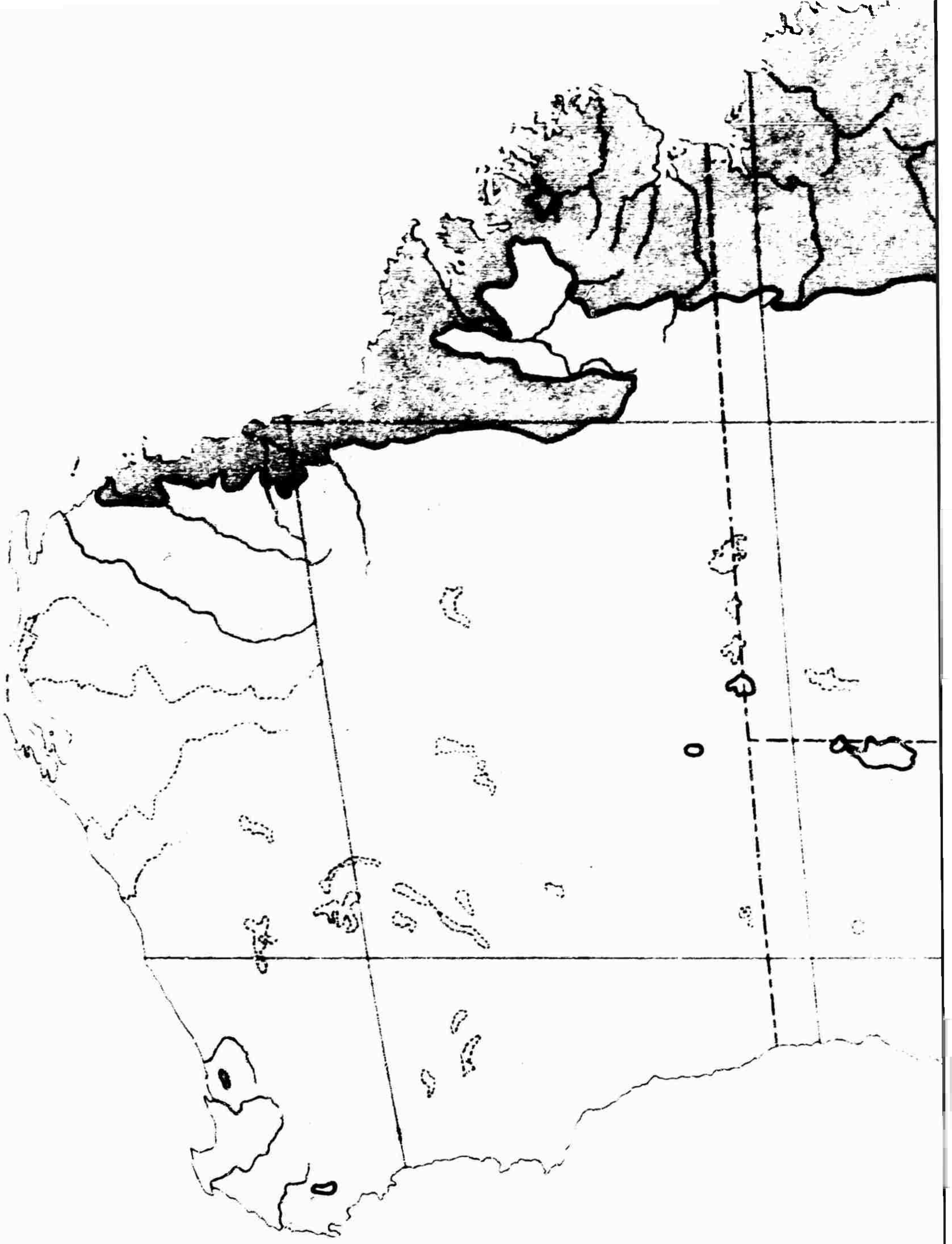
MAP 66





AUSTRALIA

MEAN TEMPERATURE

JUNE

CENTIGRADE	FAHRENHEIT
20°	68°
10°	50°
0°	32°

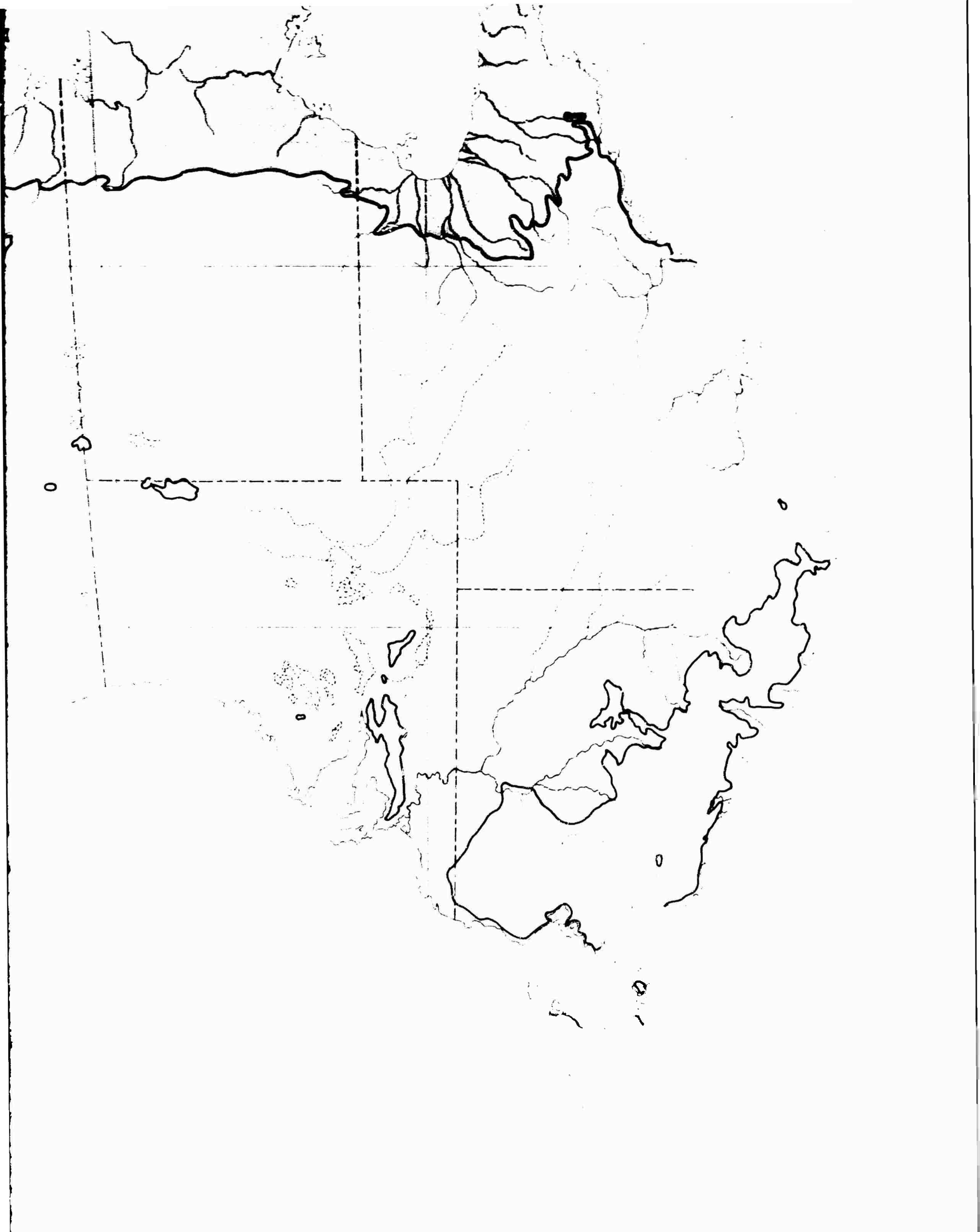
SCALE 1:12,000,000

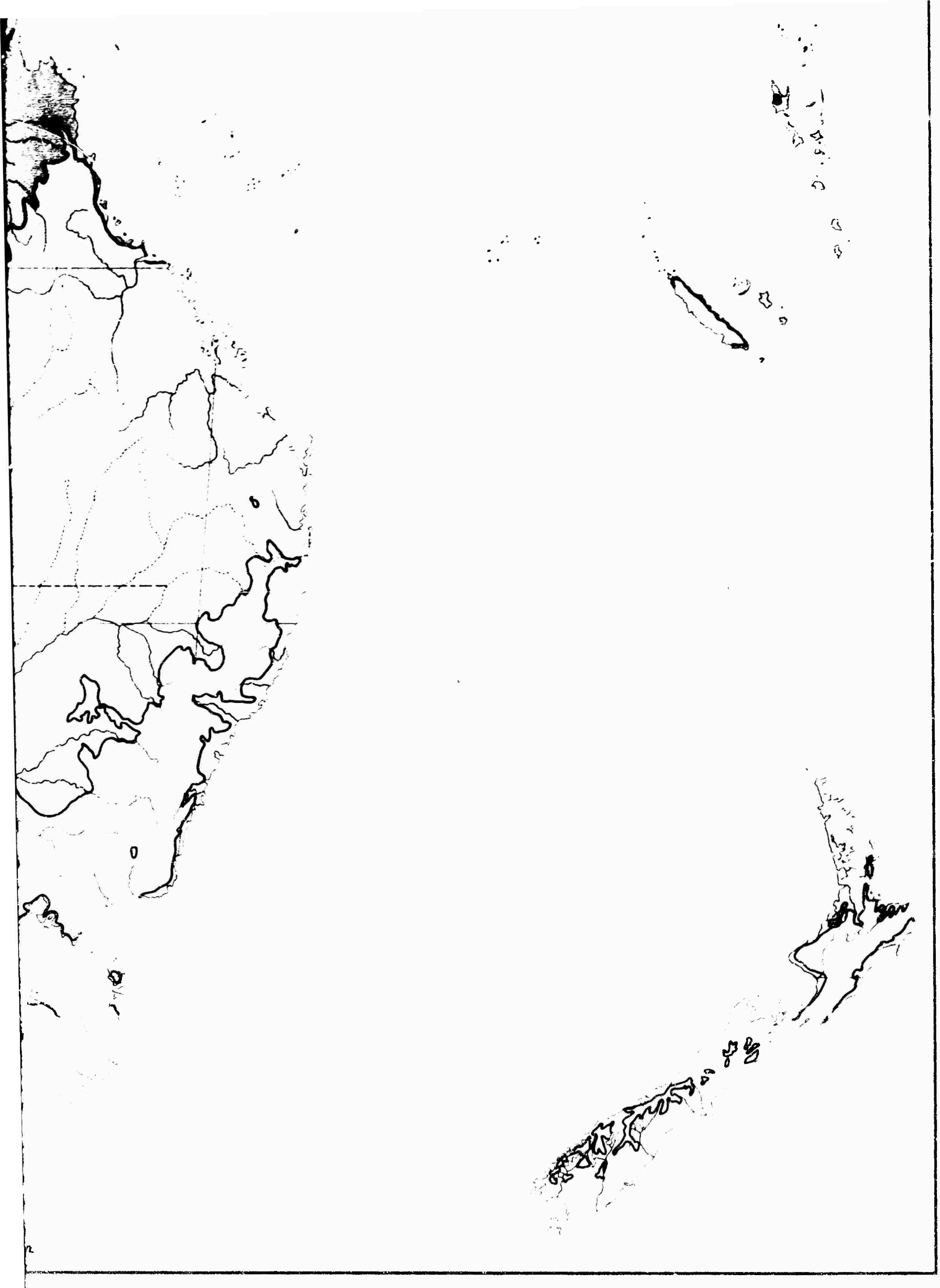
0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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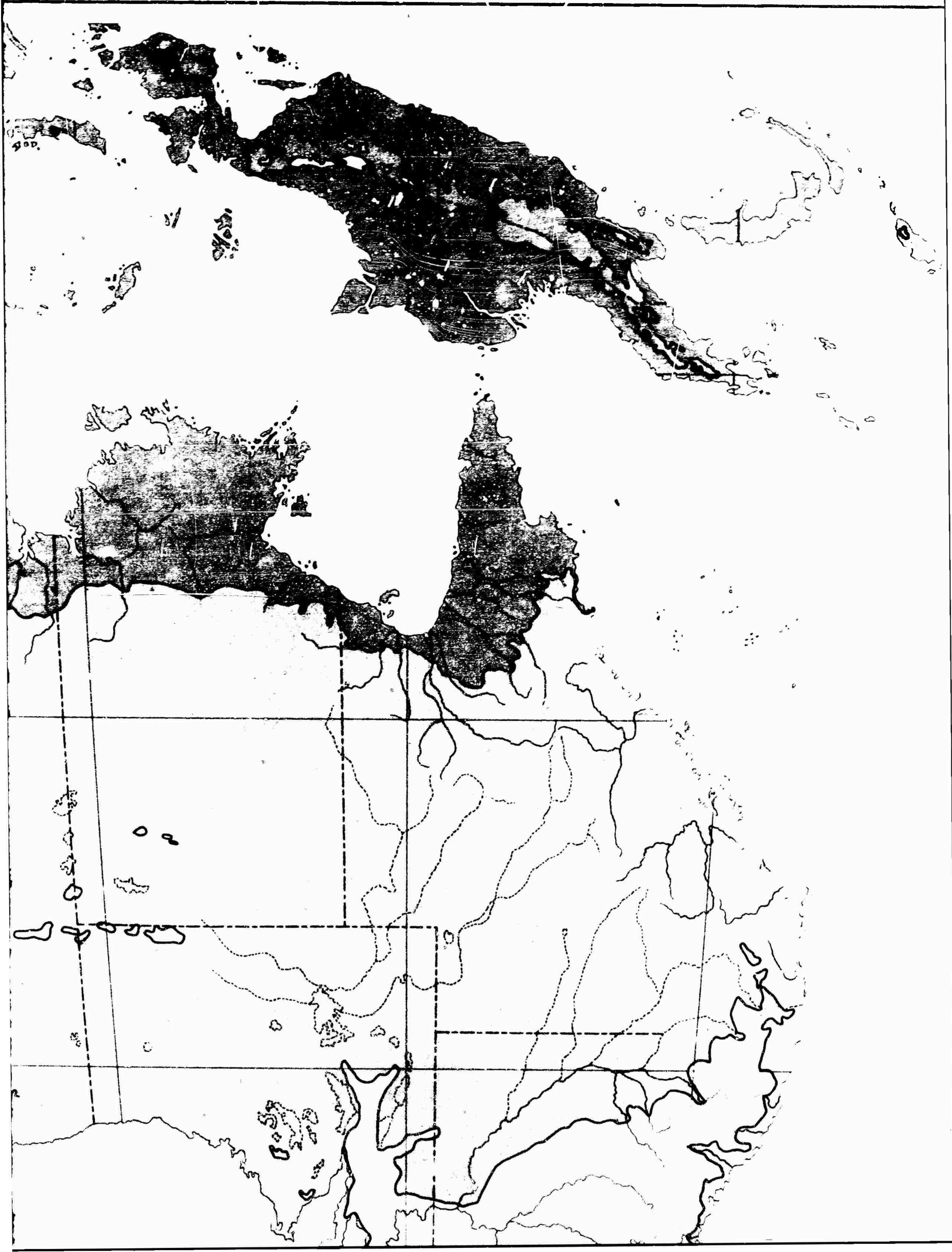
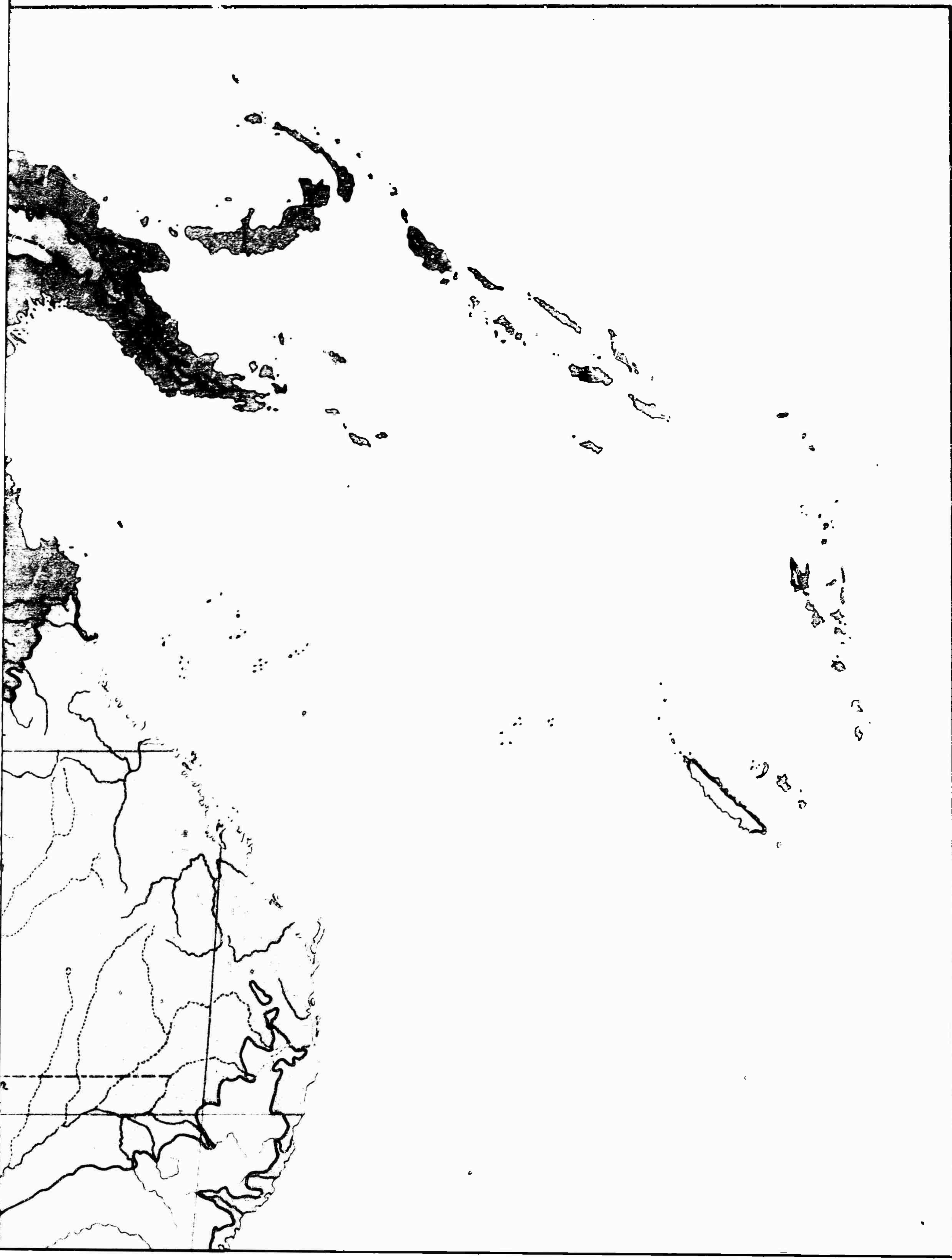
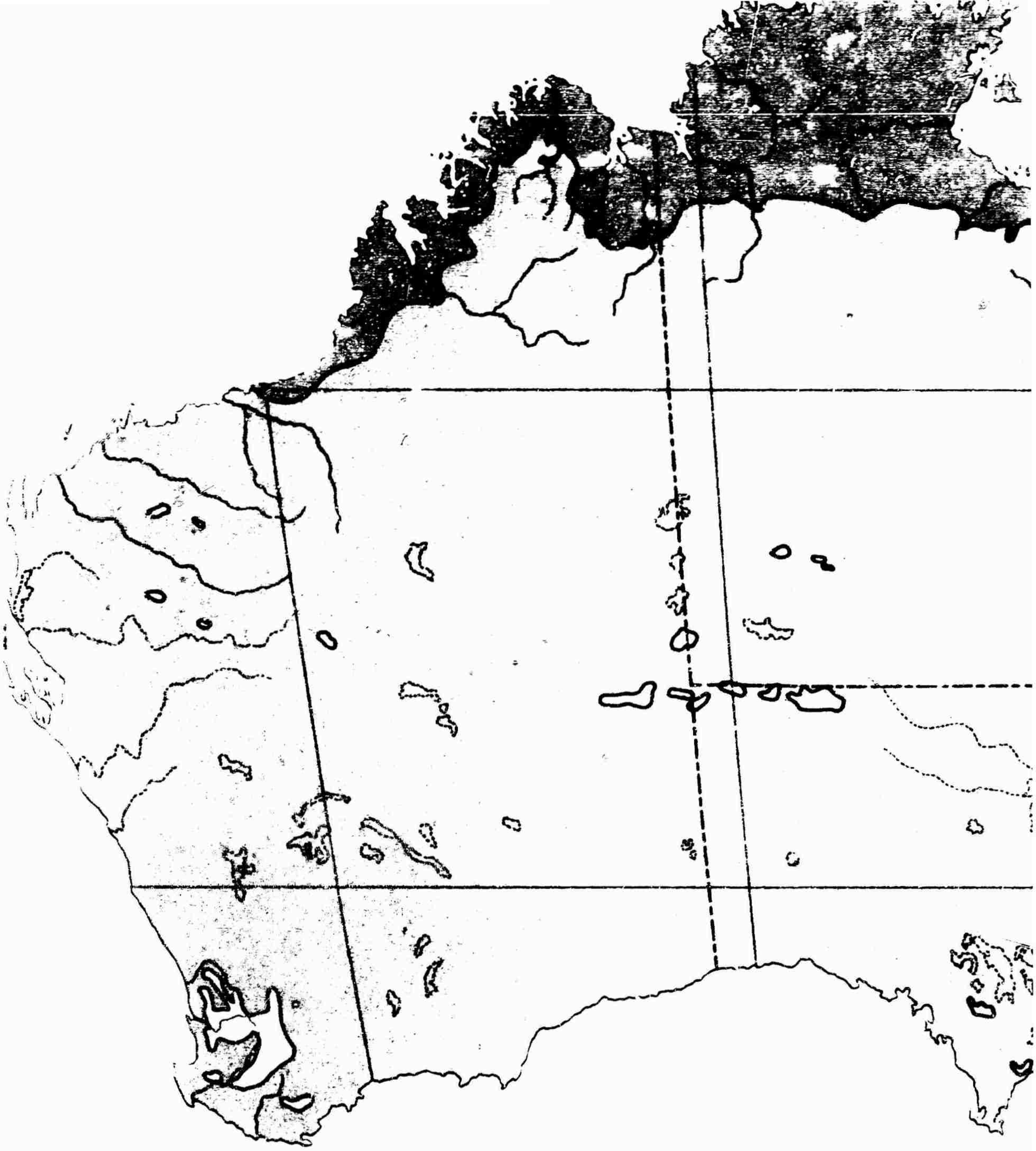






AUSTRALIA

MEAN TEMPERATURE

JULY

CENTIGRADE	FAHRENHEIT
20°	68°
10°	50°
0°	32°

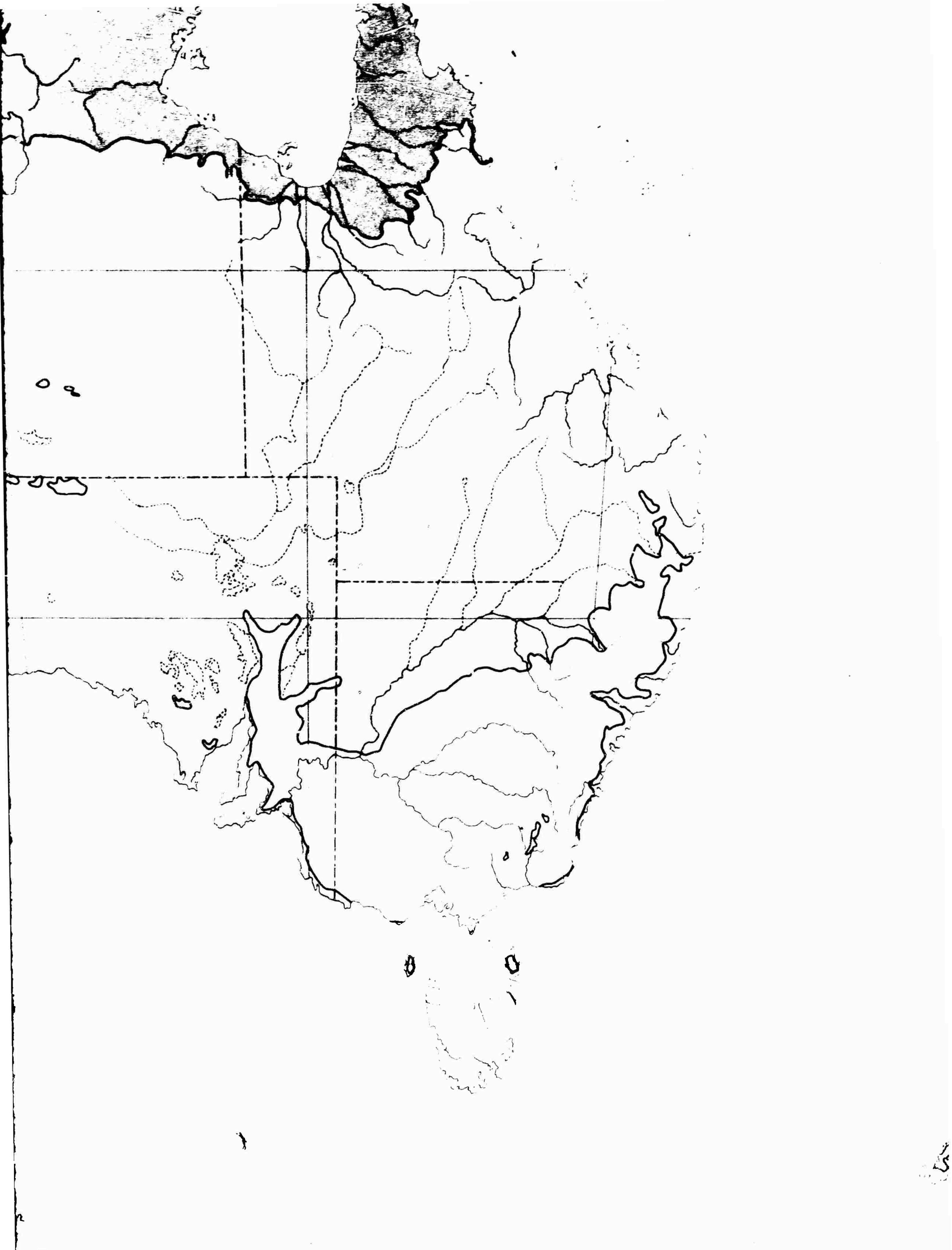
SCALE 1:12,000,000

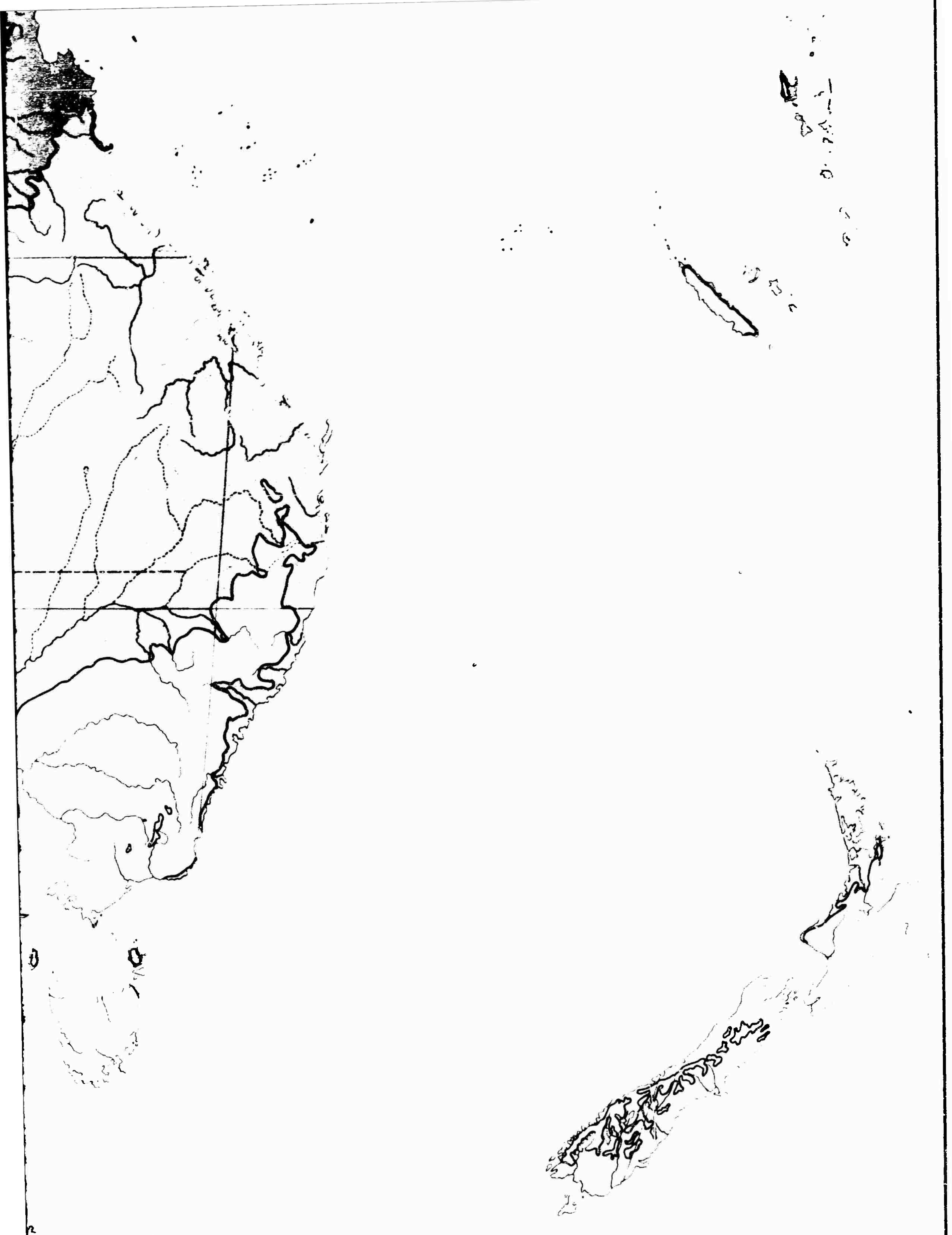
0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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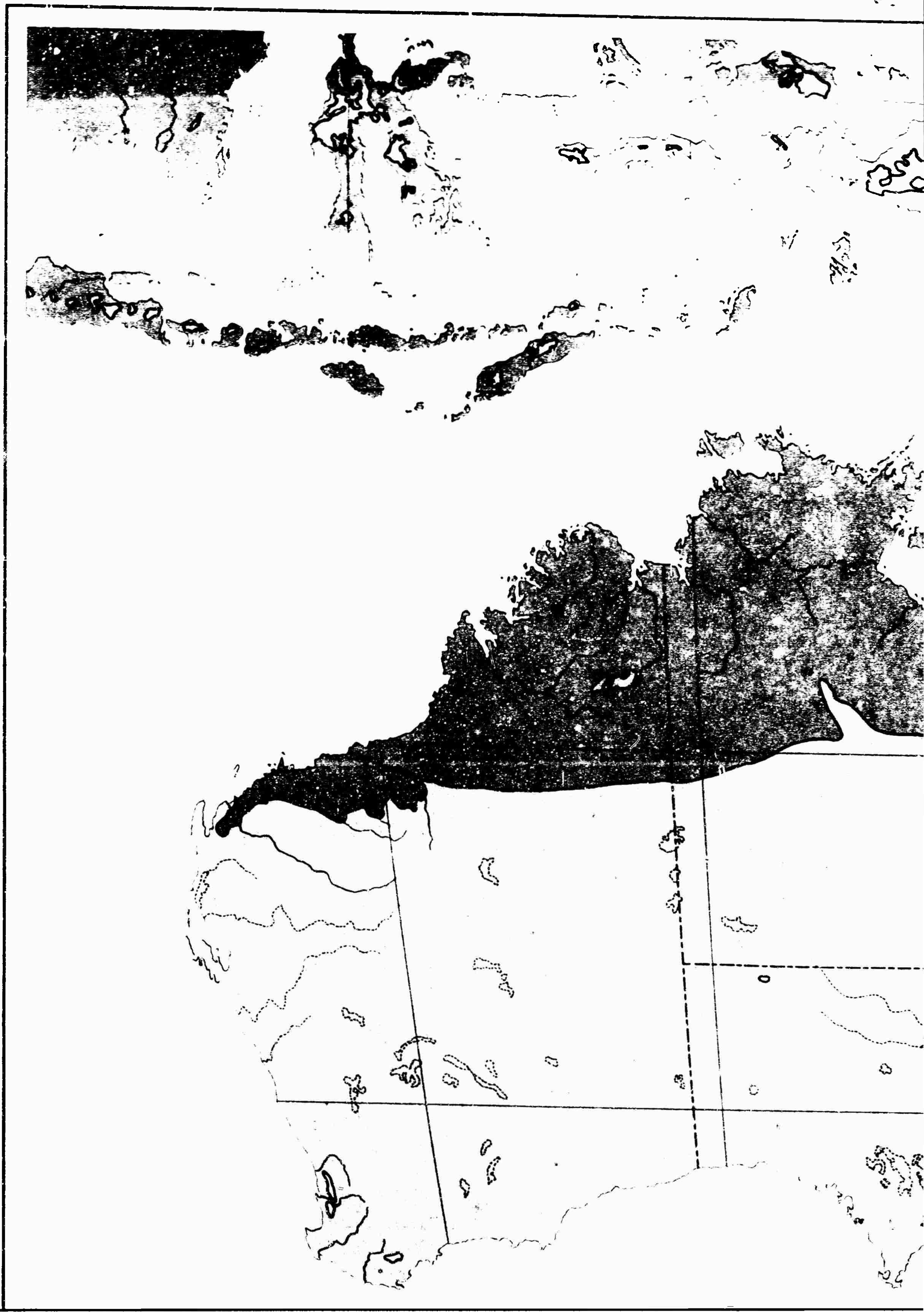
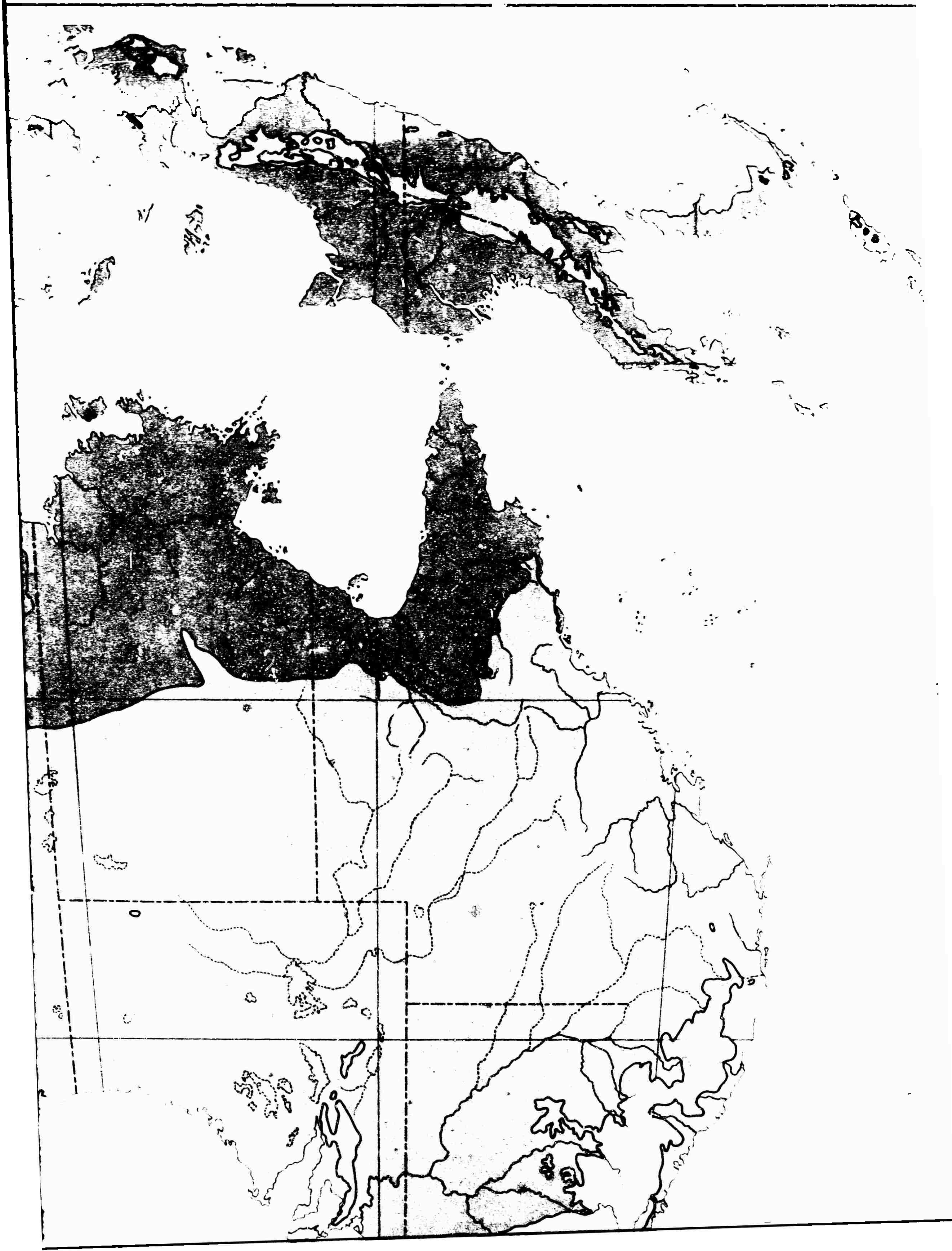
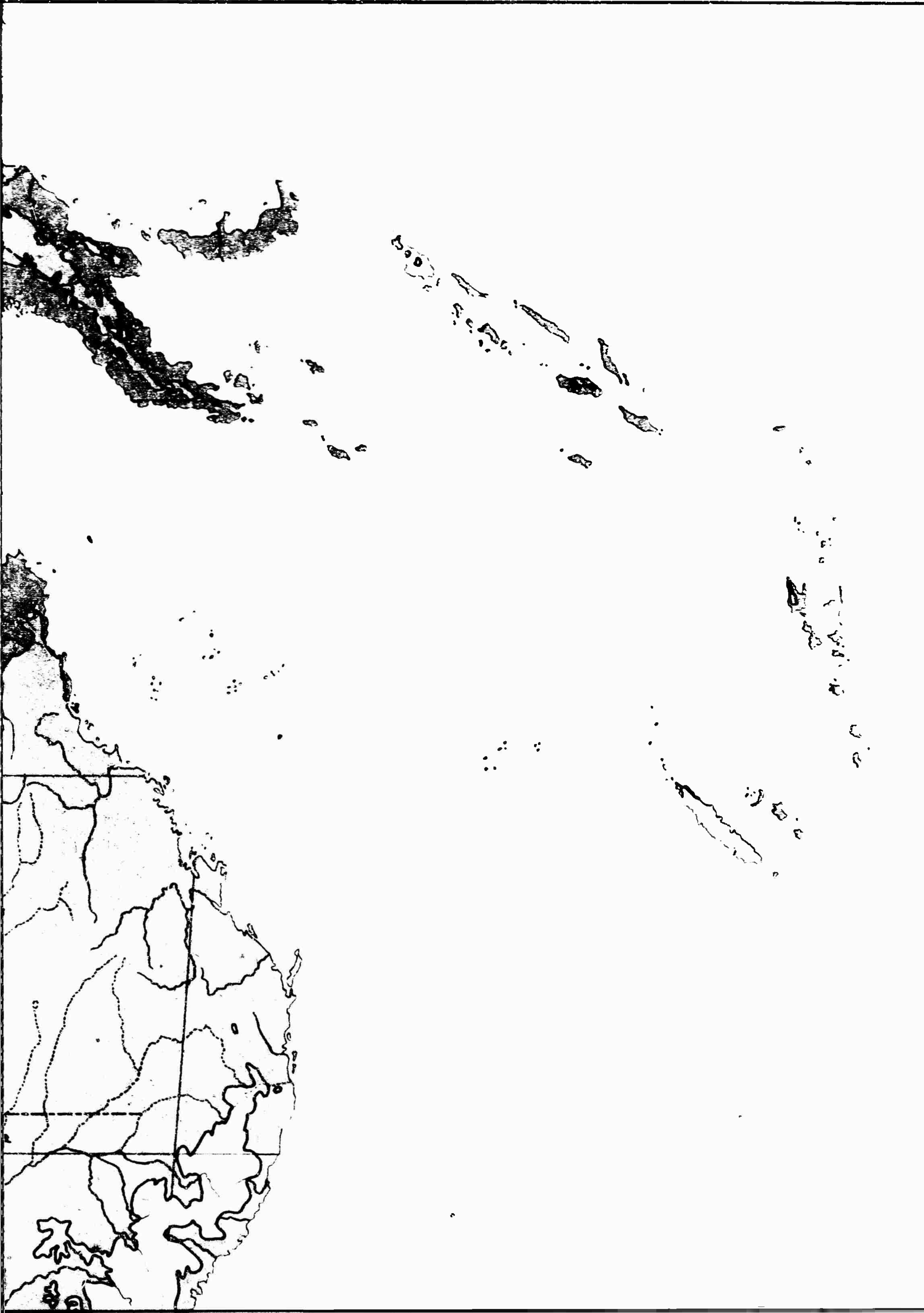
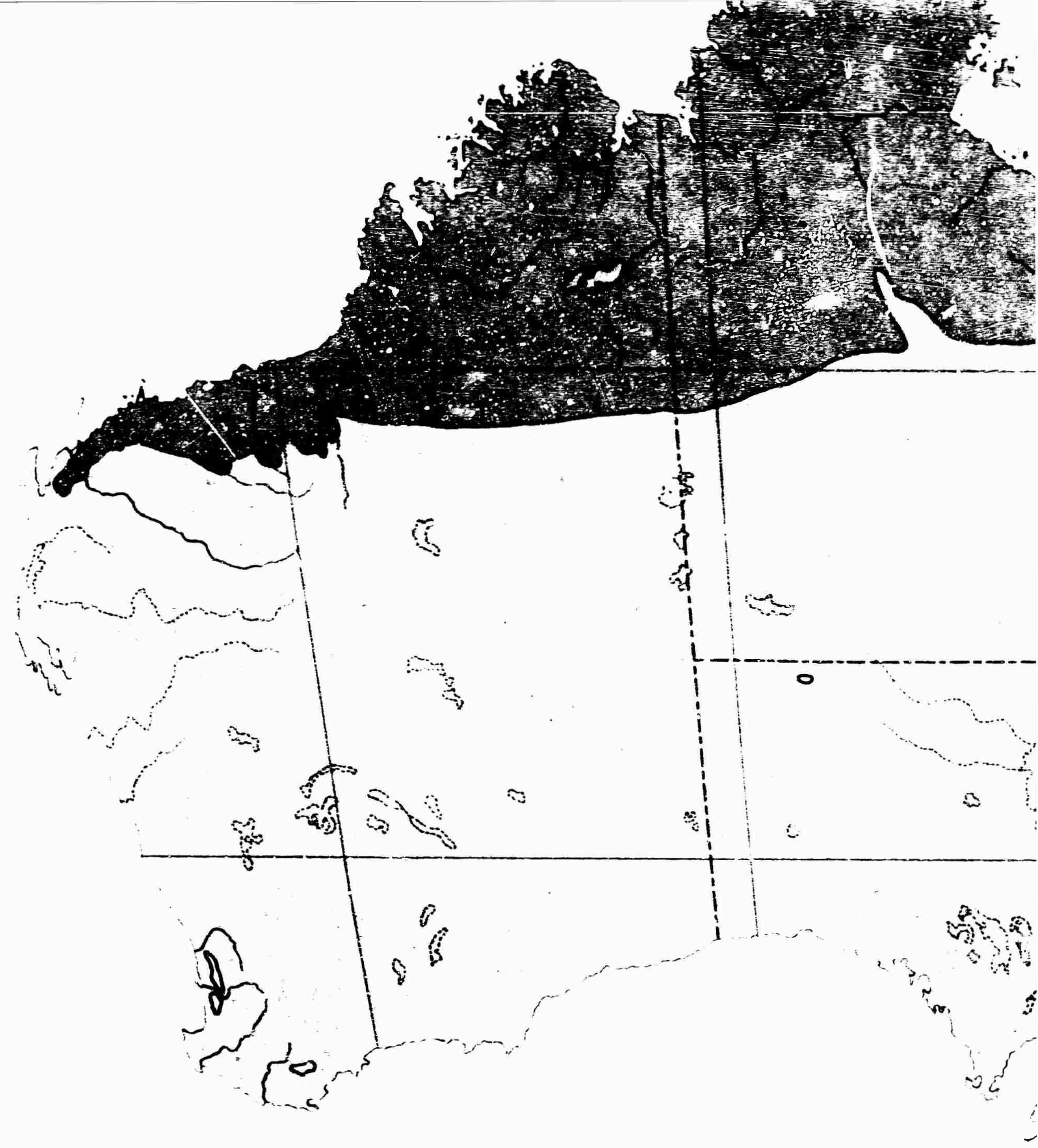




MAP 6





AUSTRALIA

MEAN TEMPERATURE

AUGUST

CENTIGRADE FAHRENHEIT

20°	68°
10°	50°
0°	32°

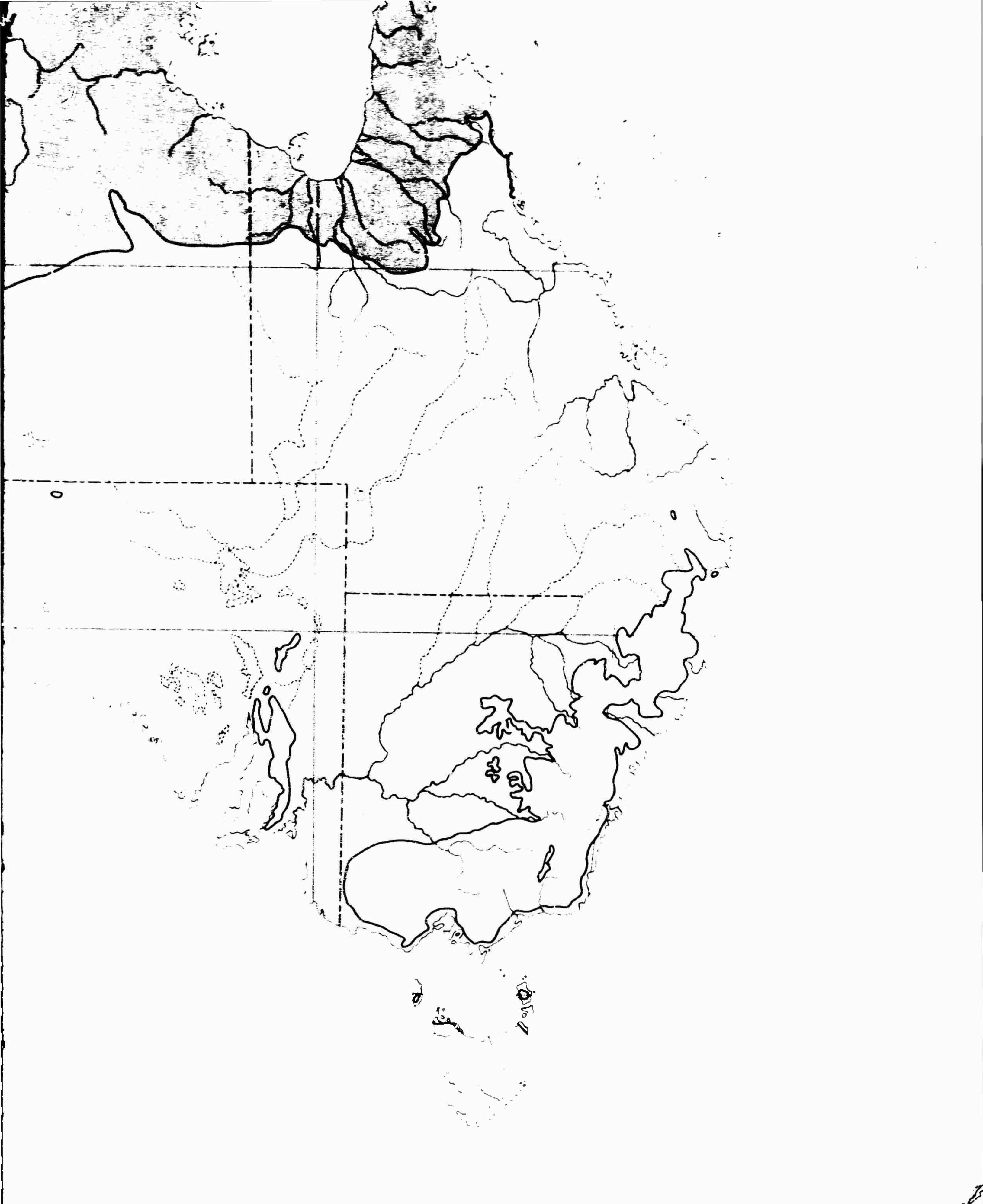
SCALE 1:12,000 000

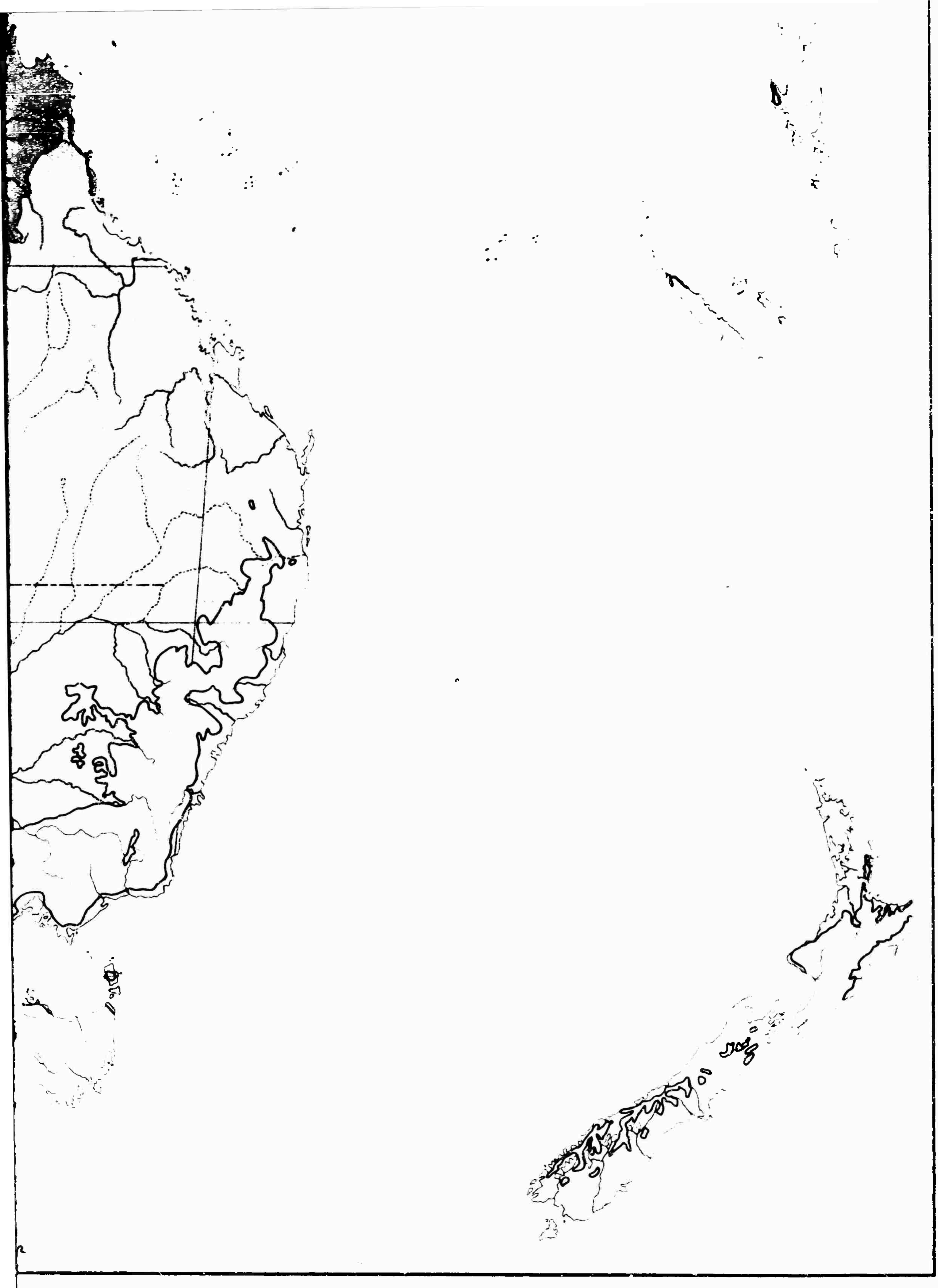
0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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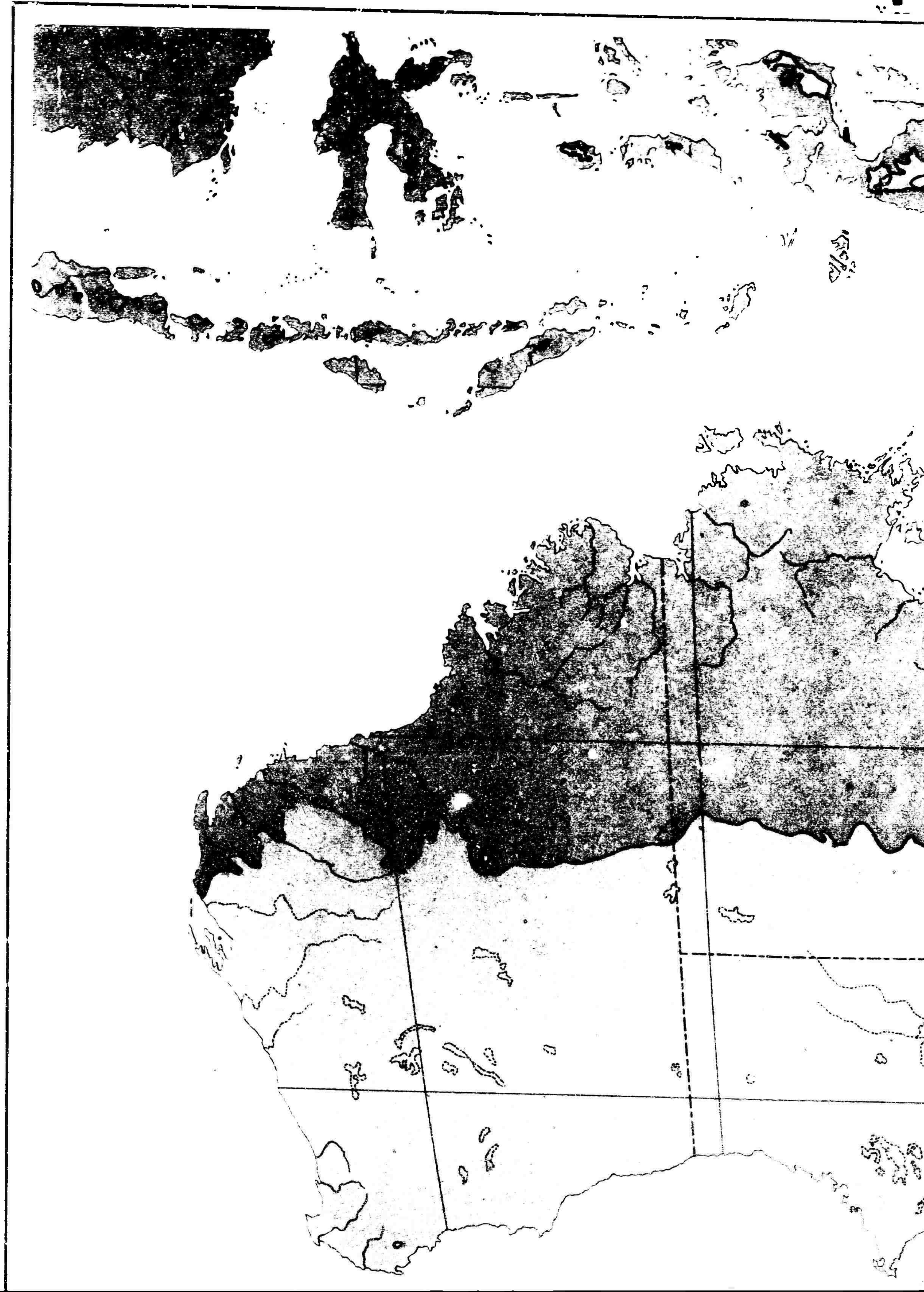

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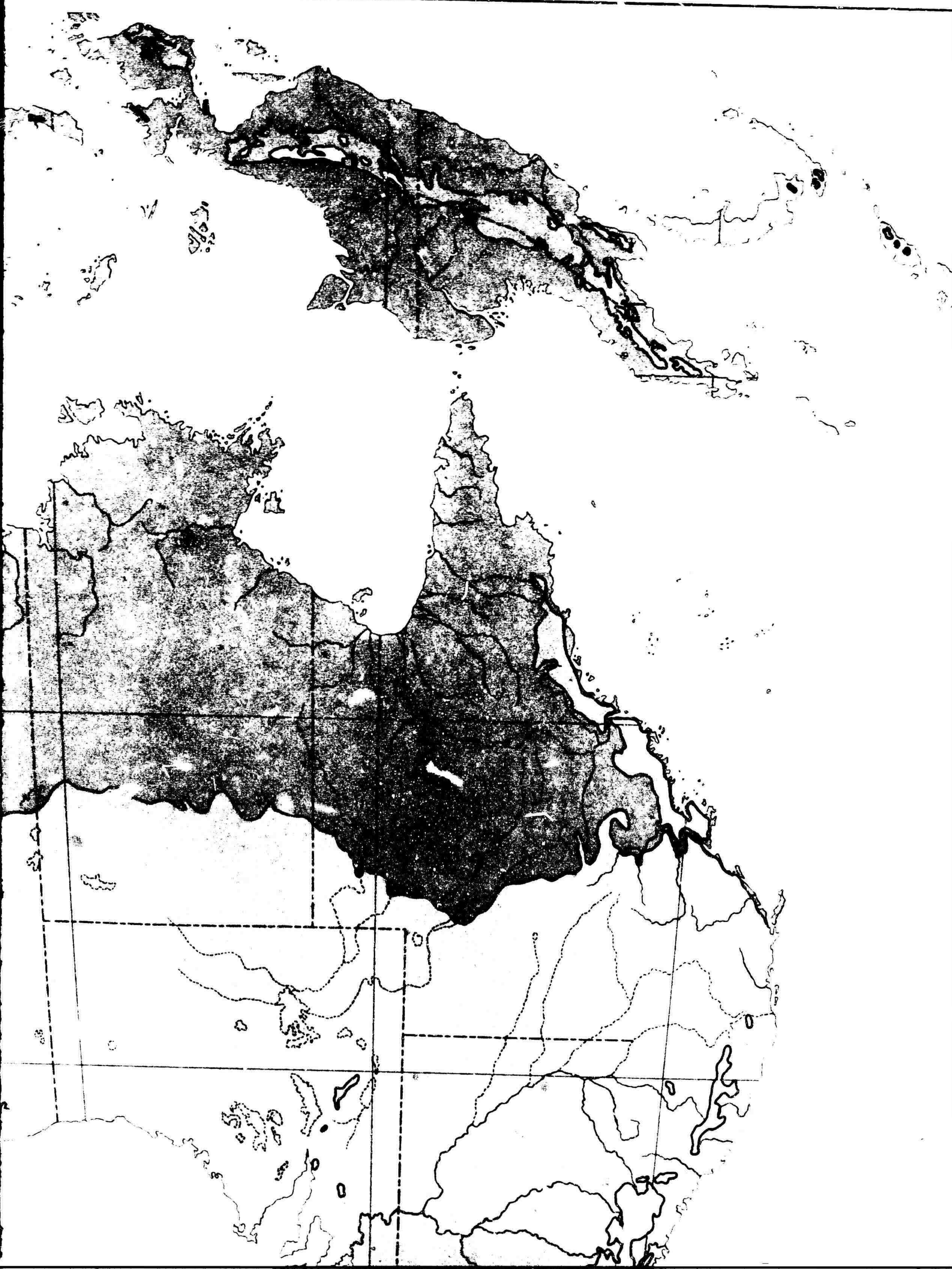
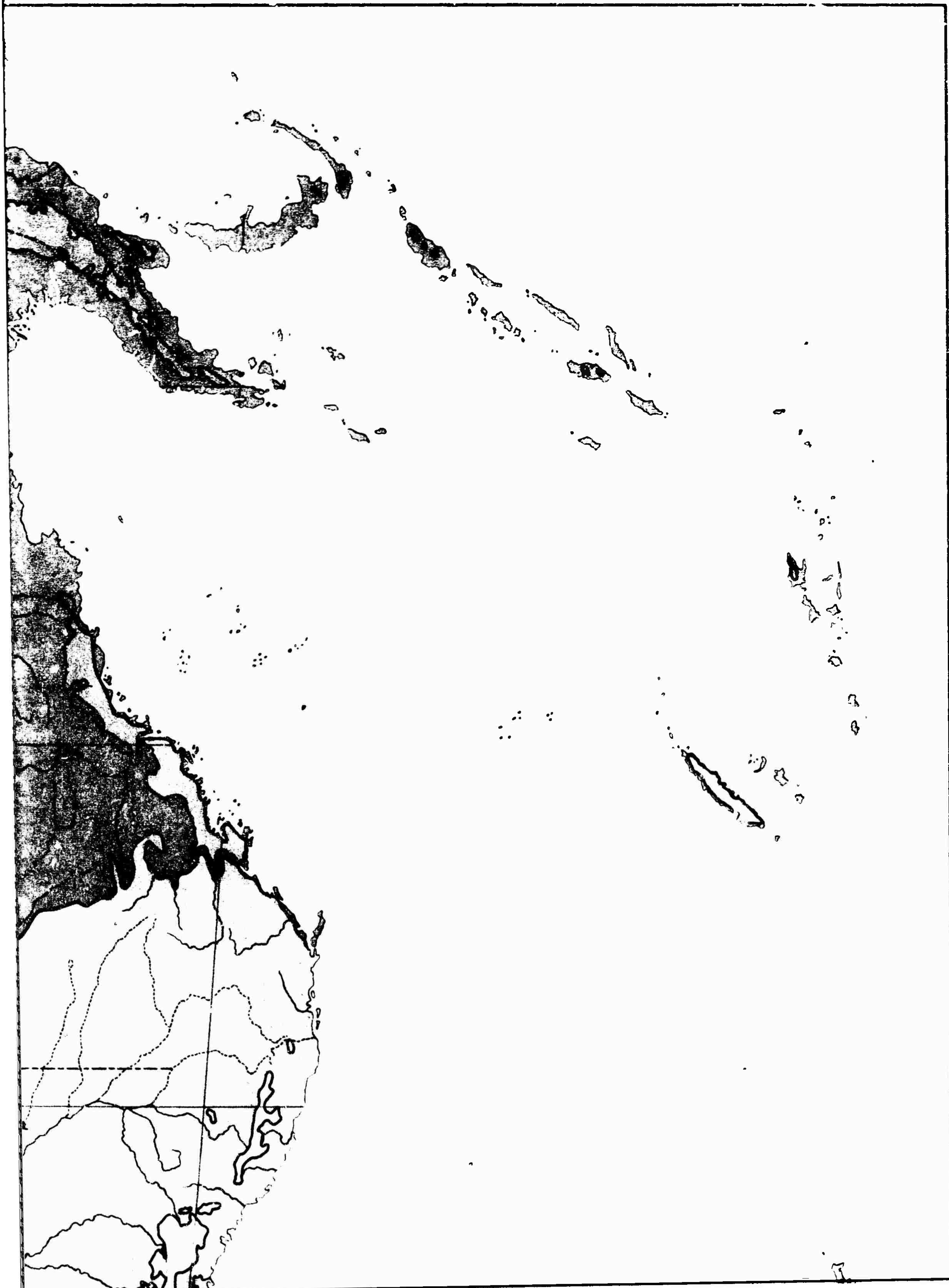
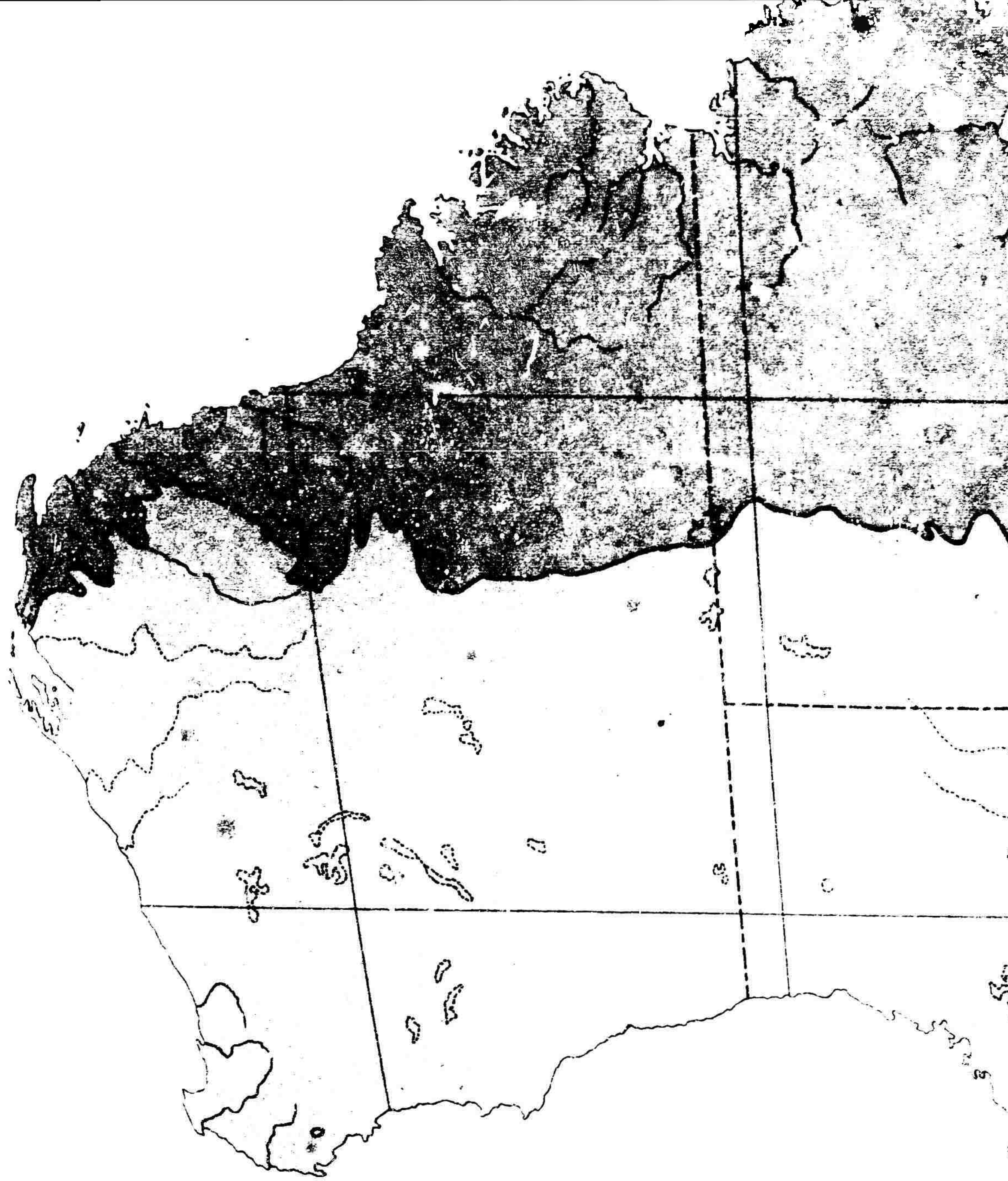






AUSTRALIA

MEAN TEMPERATURE

SEPTEMBER

CENTIGRADE FAHRENHEIT

20° 68°
10° 50°
0° 32°

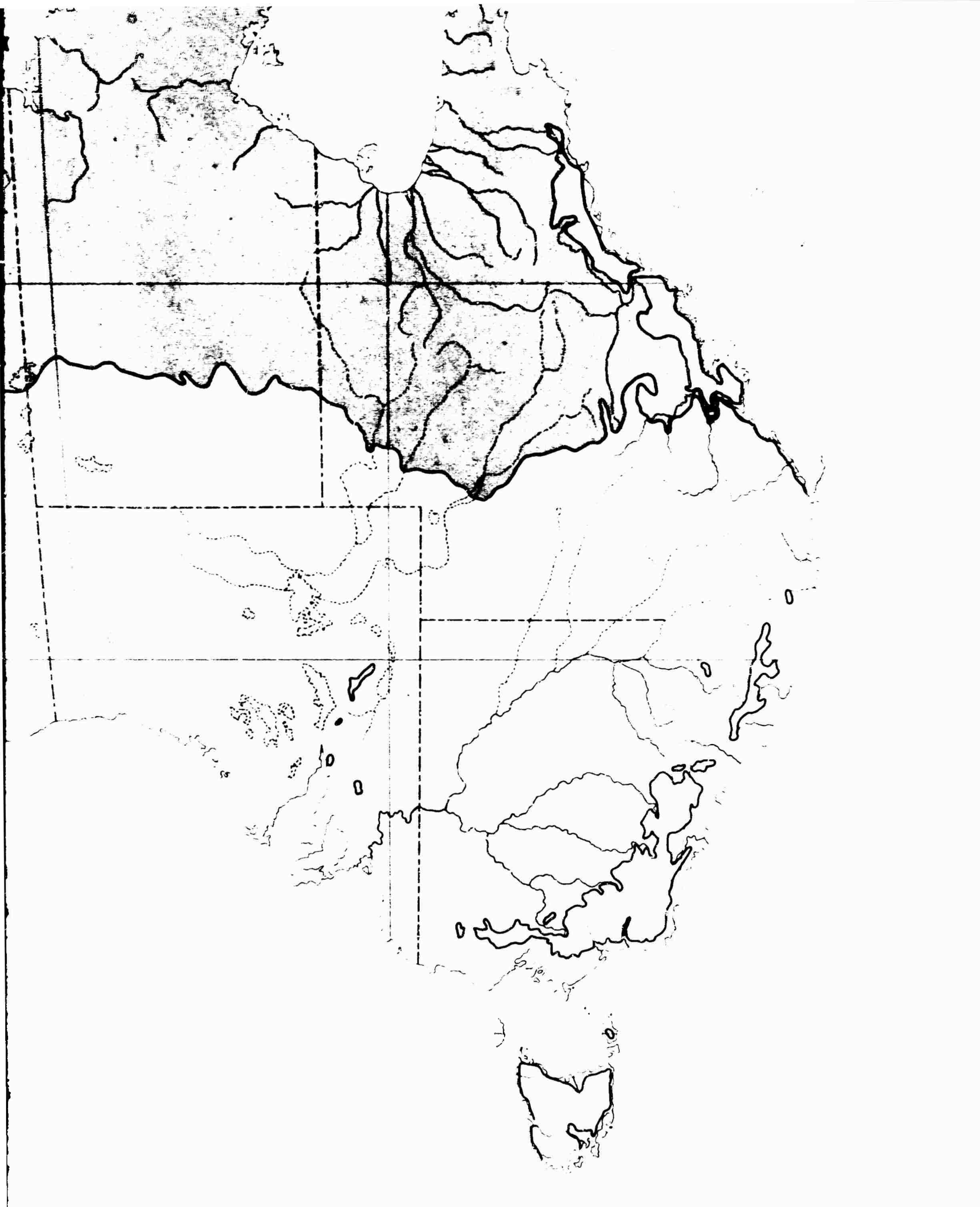
SCALE 1:12,000,000

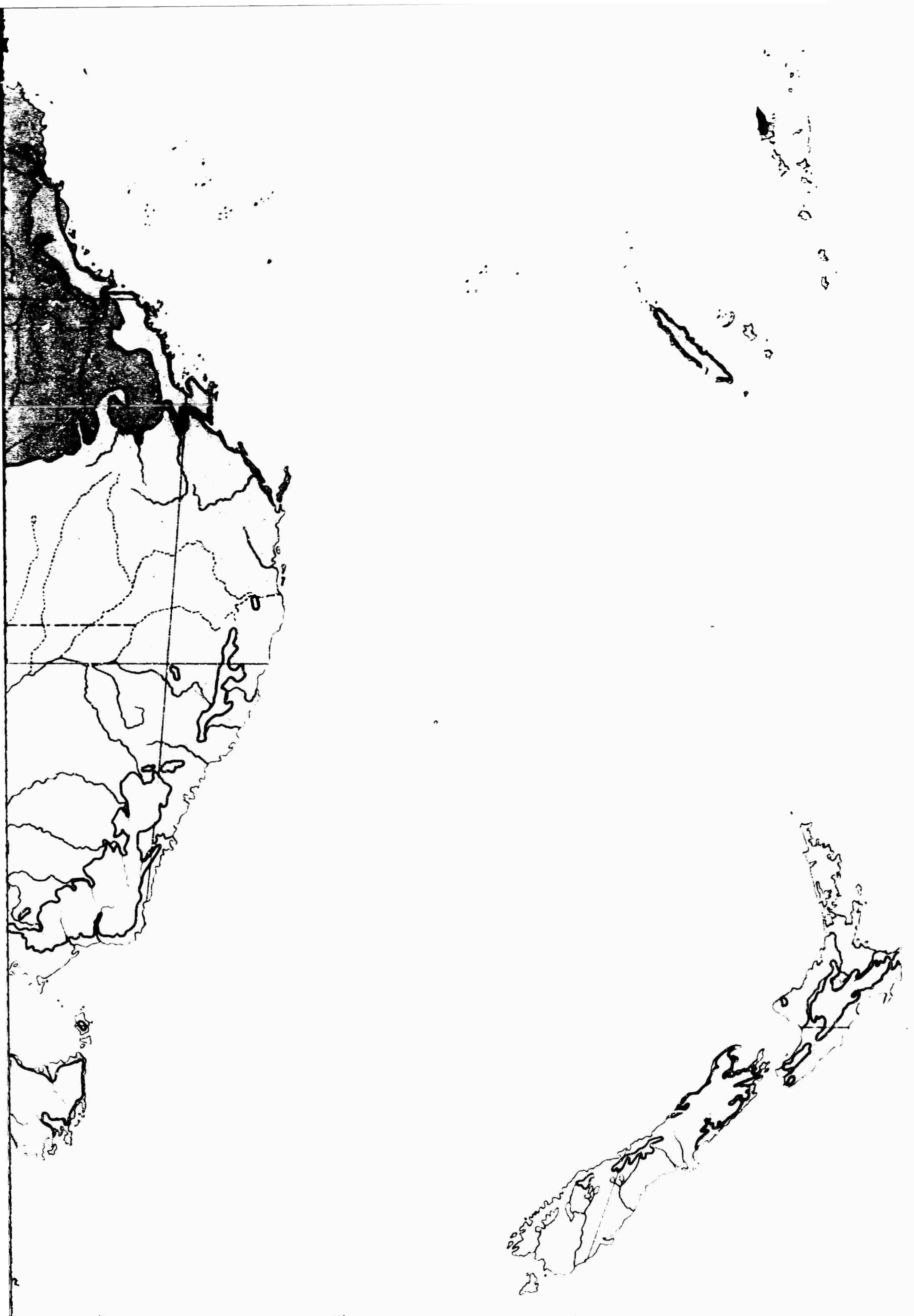
0 50 100 200 300 400 500

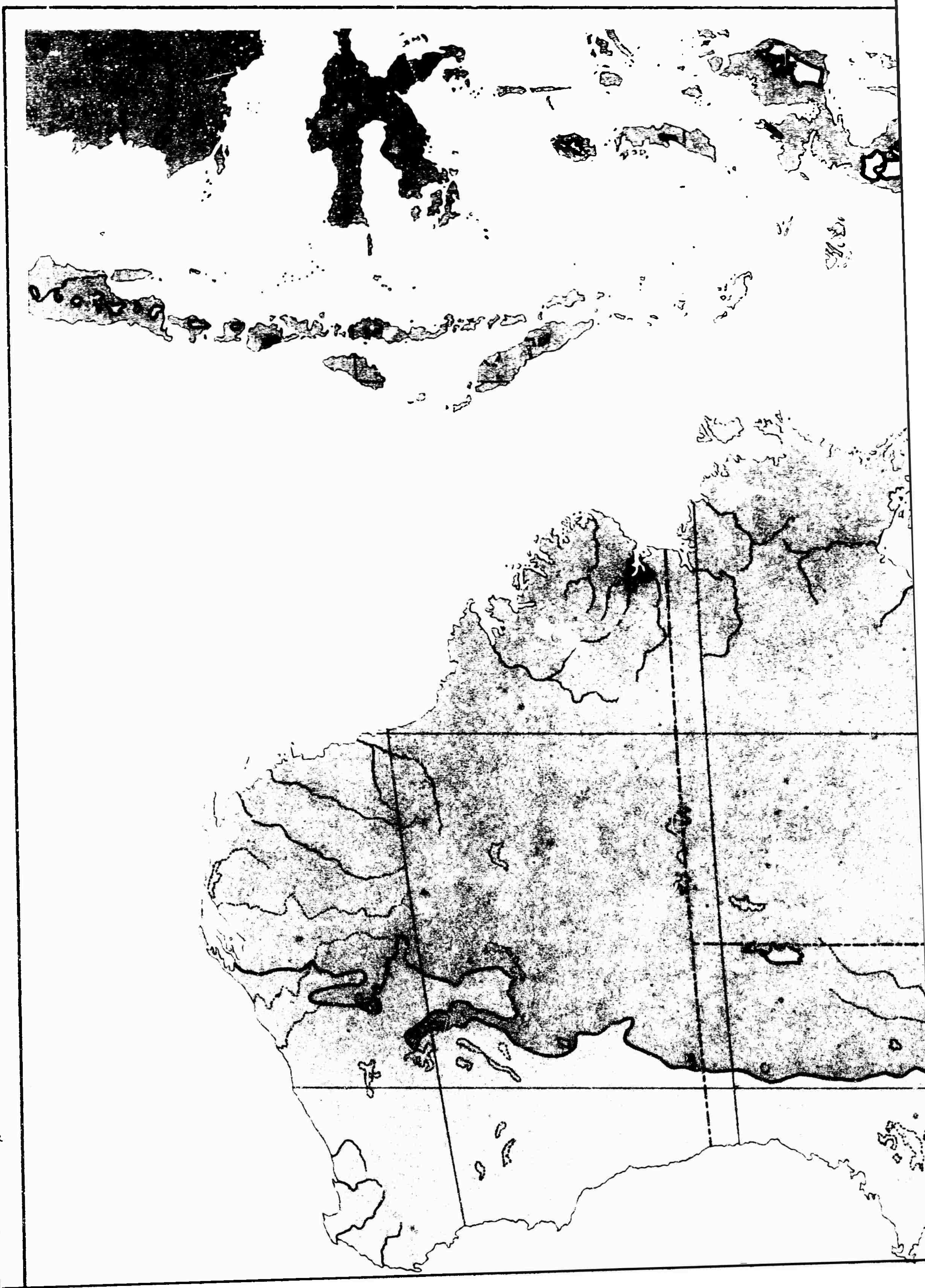
MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNOARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE







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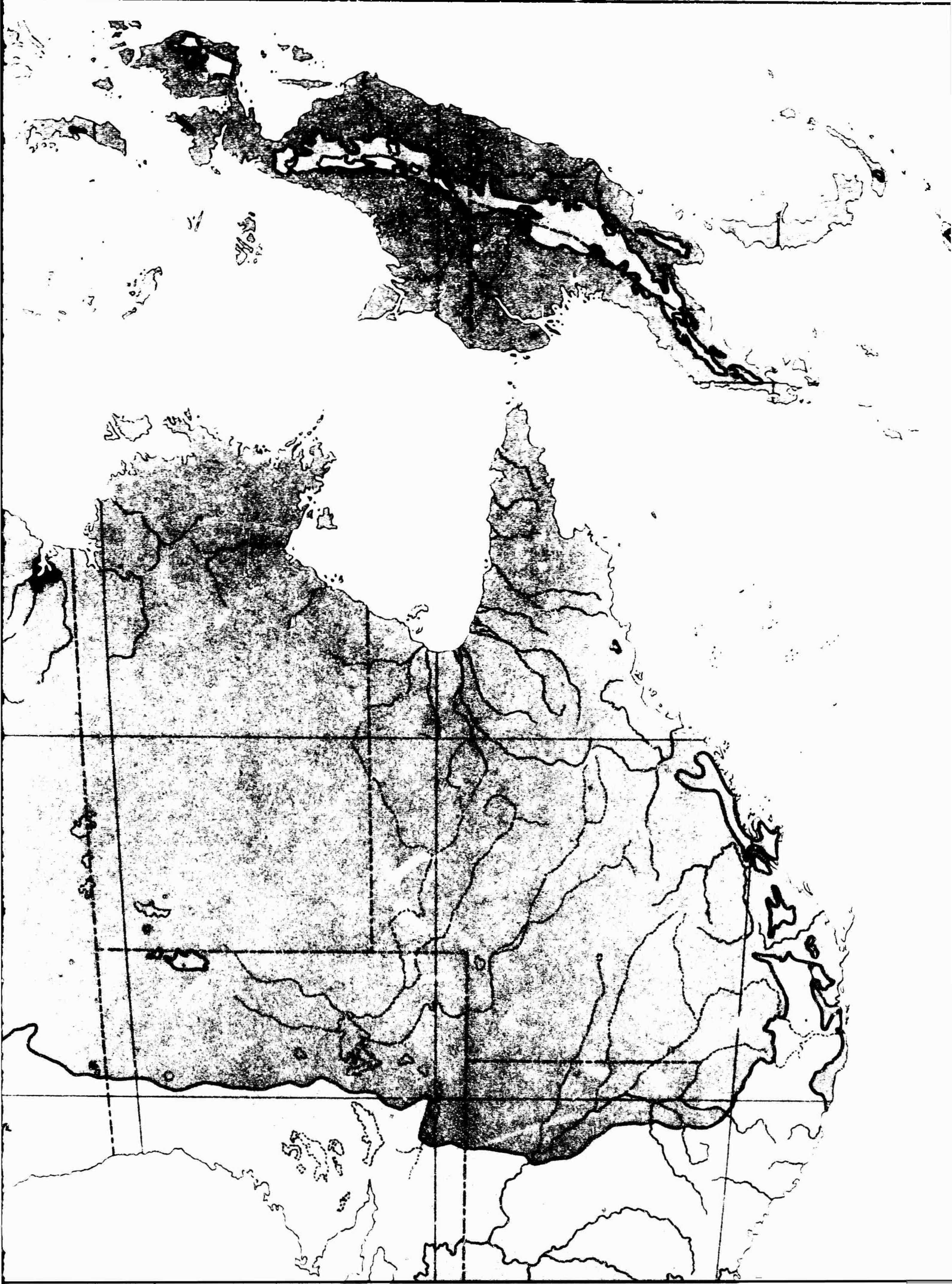
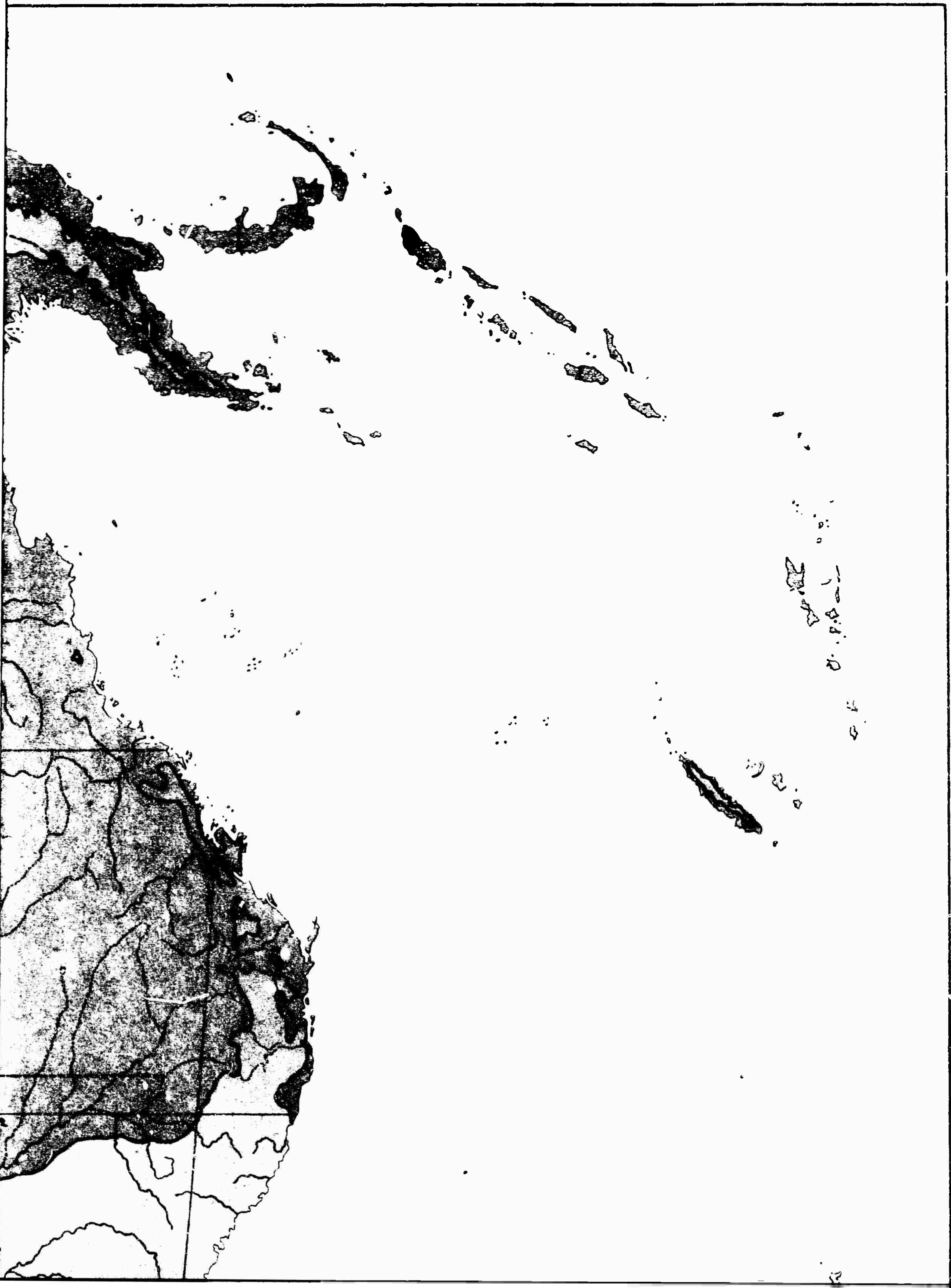
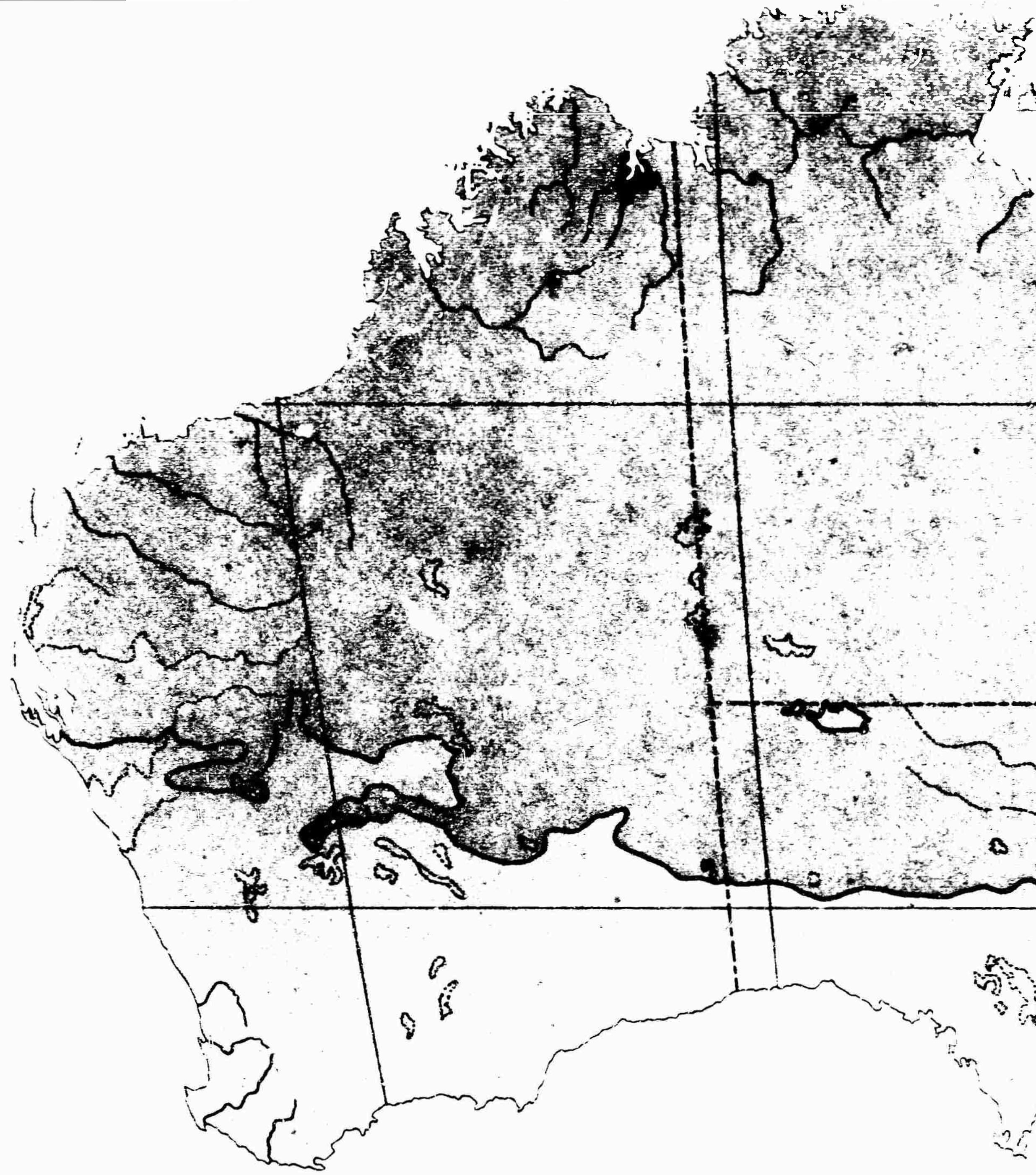






AUSTRALIA

MEAN TEMPERATURE

OCTOBER

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

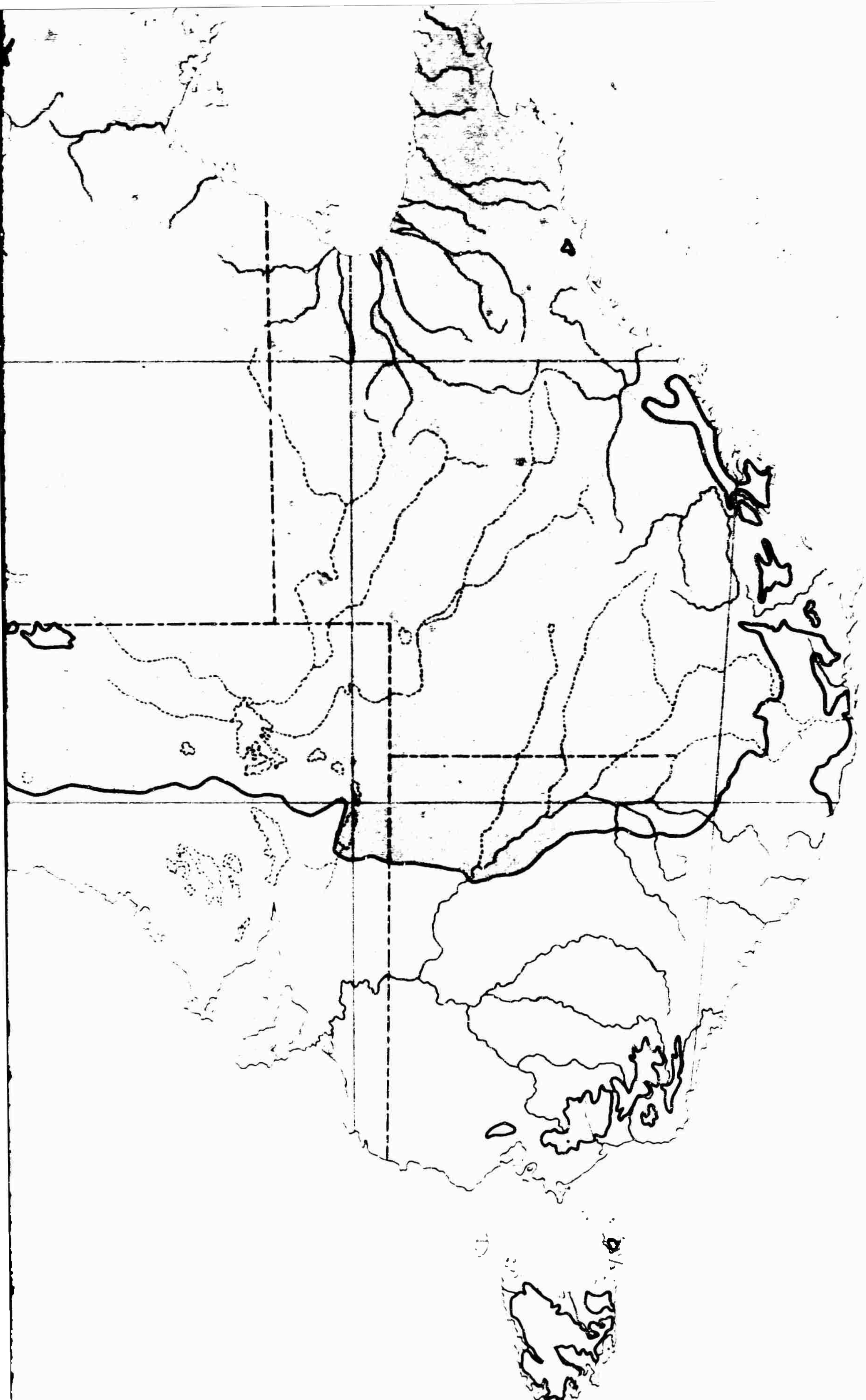
SCALE 1:12,000,000

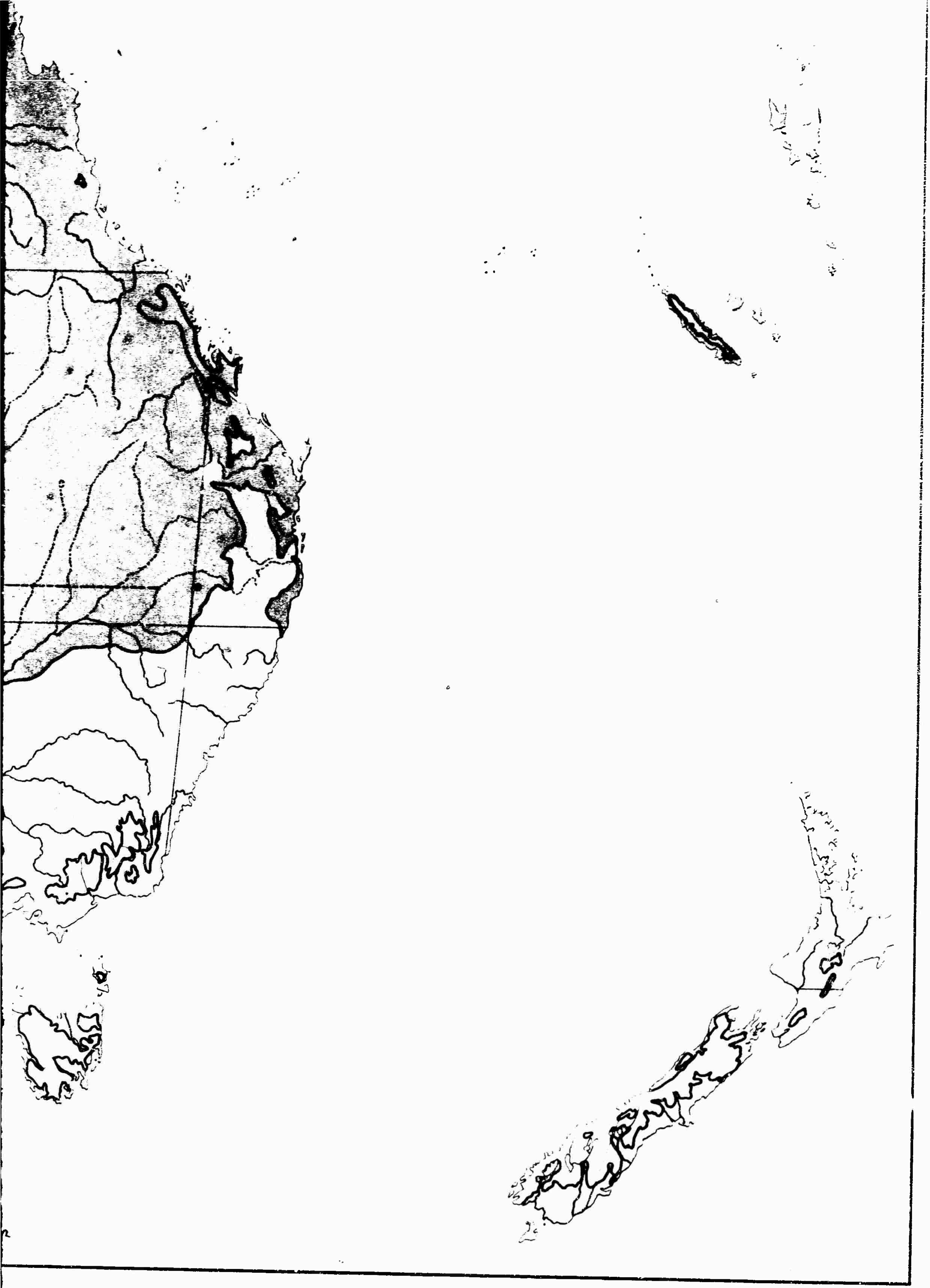
0 50 100 200 300 400 500

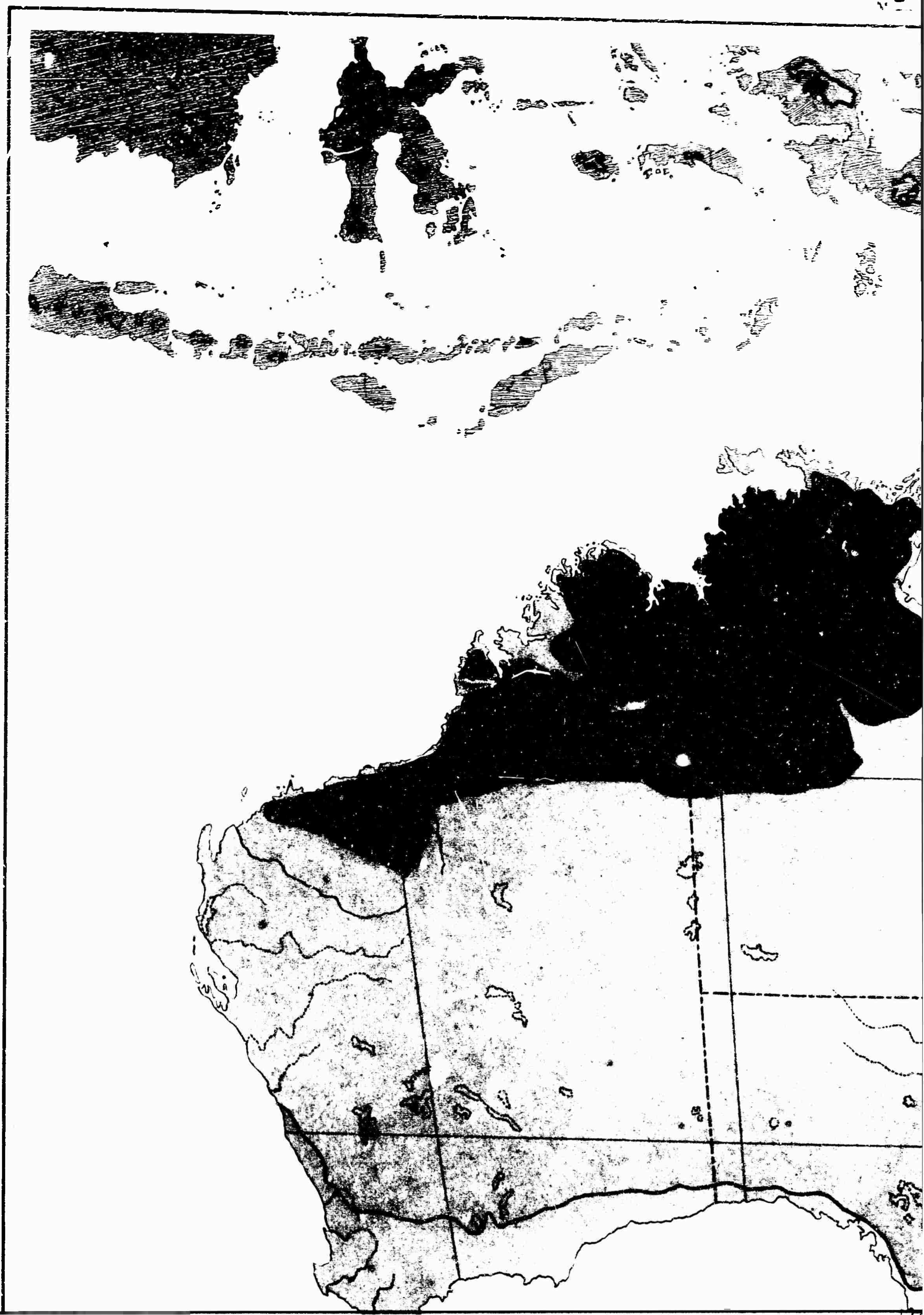
MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE







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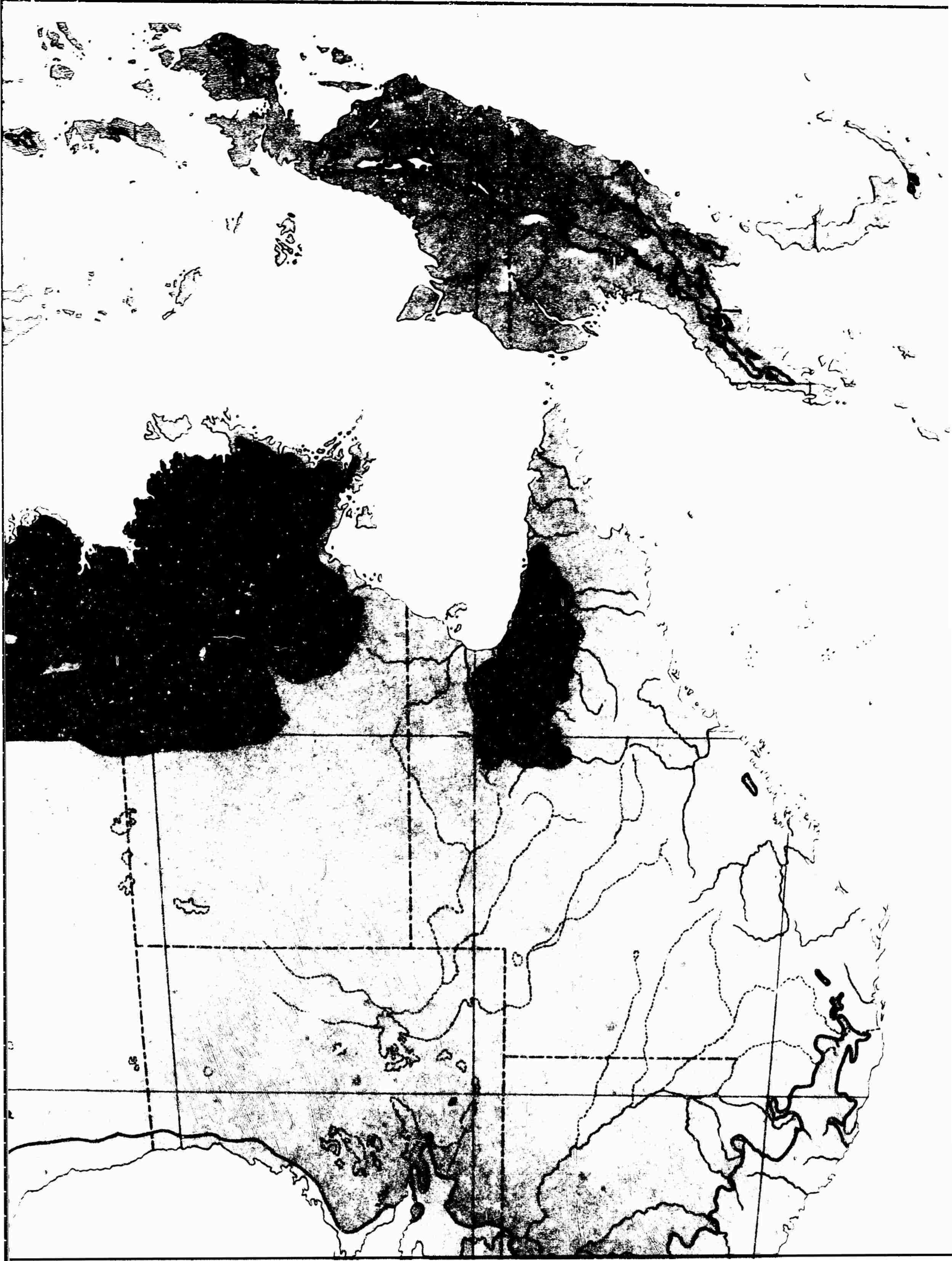

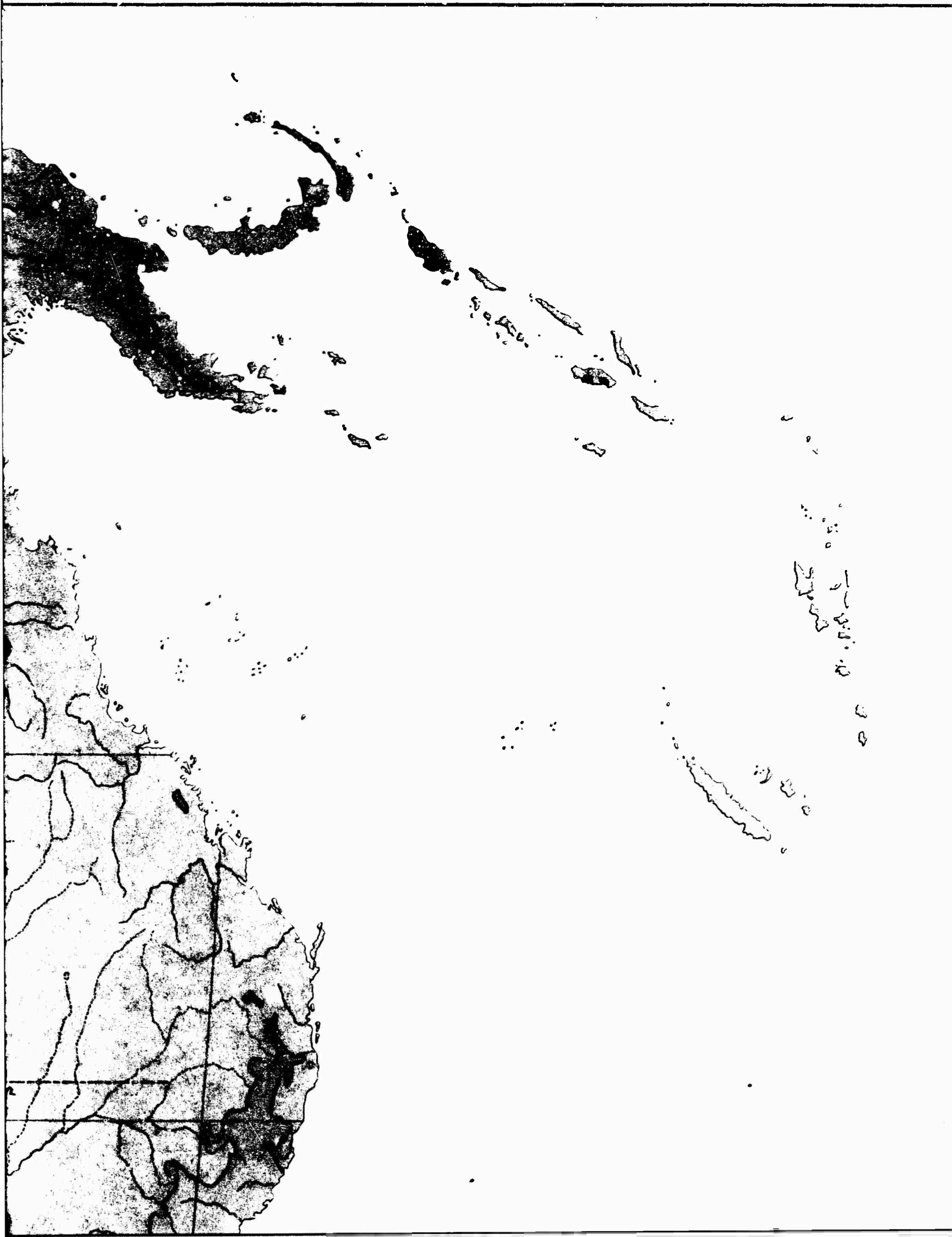

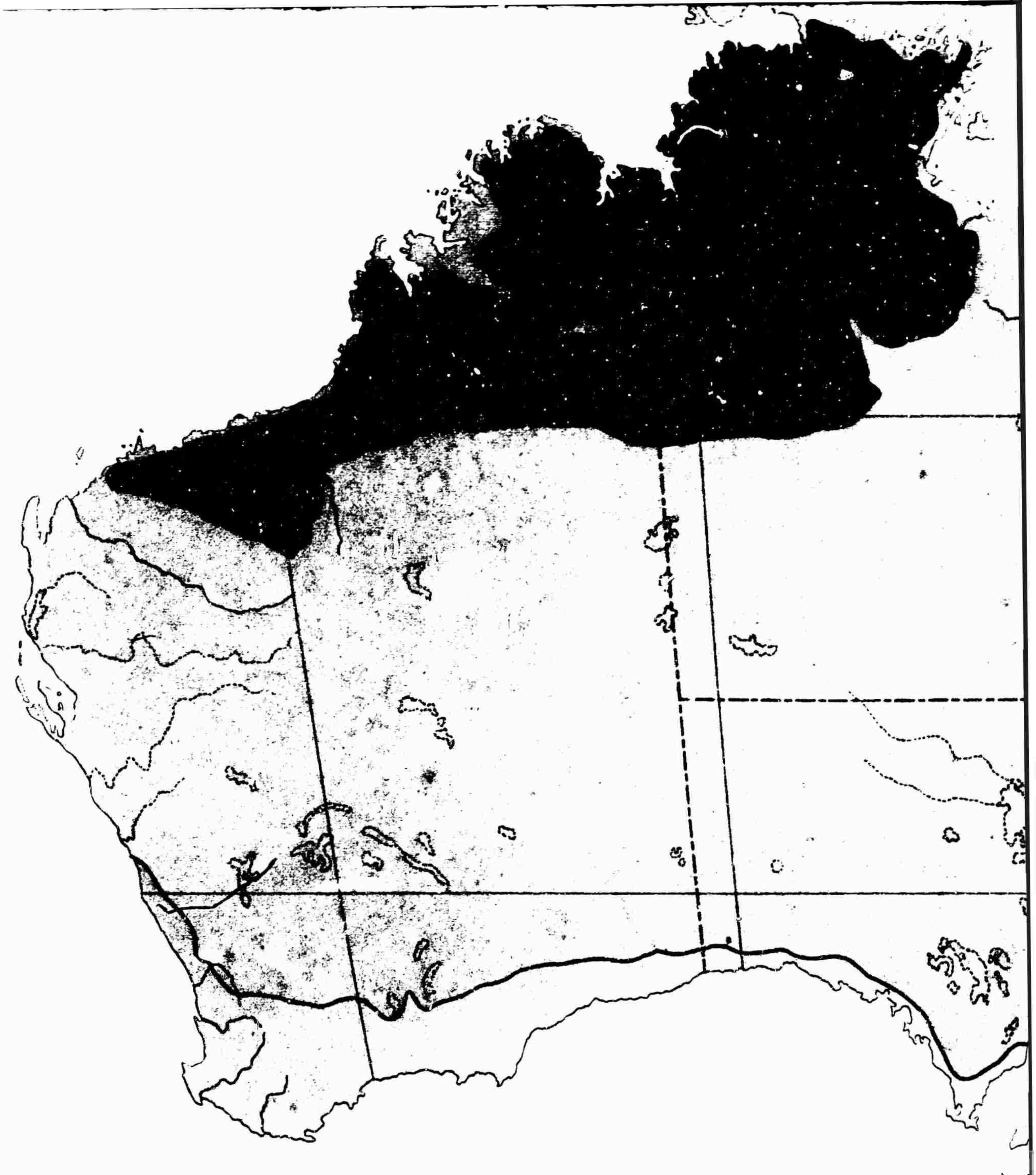

AUSTRALIA

MEAN TEMPERATURE

NOVEMBER

CENTIGRADE FAHRENHEIT

30° 86°

20° 68°

10° 50°

0° 32°

SCALE 1:12,000,000

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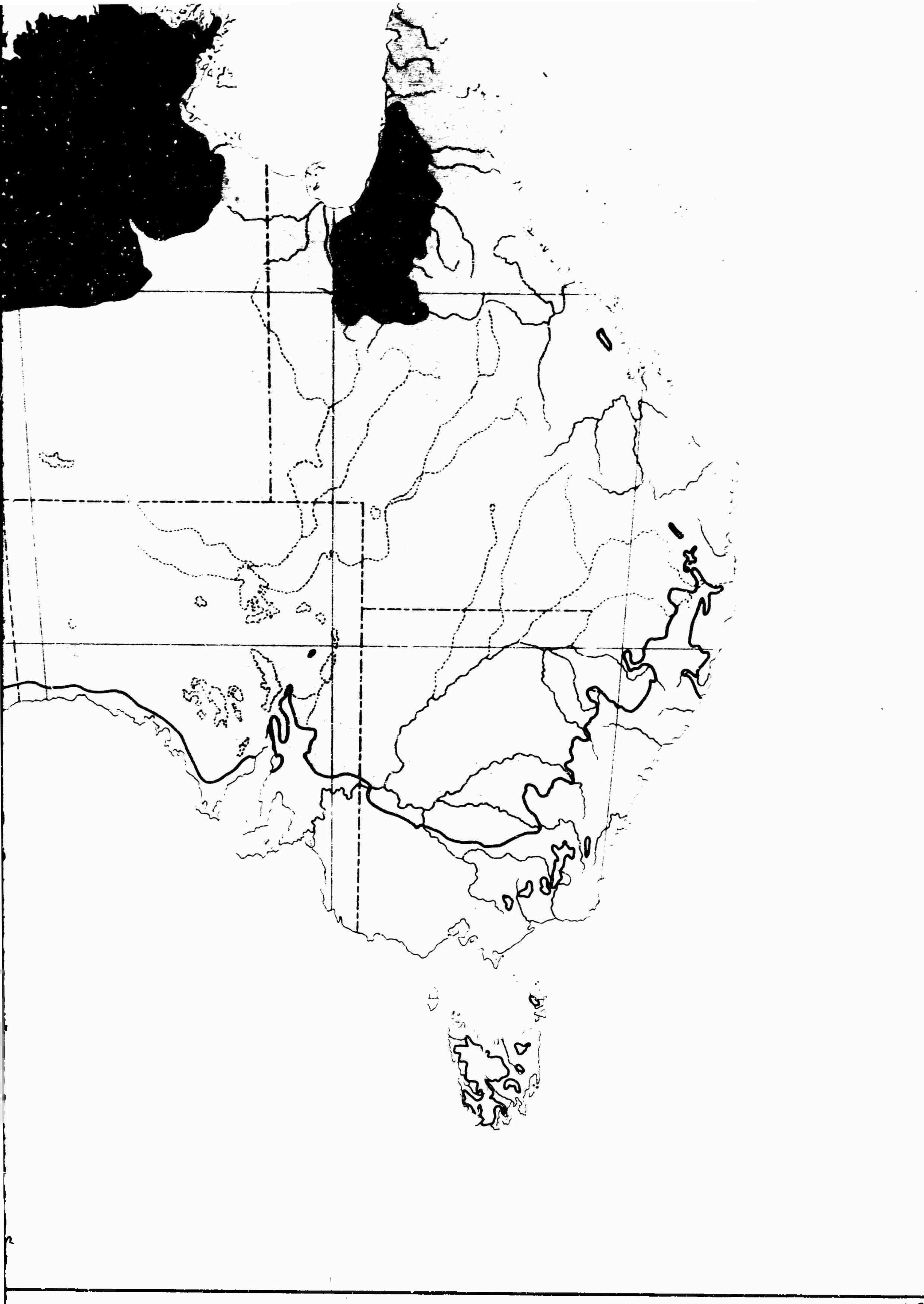
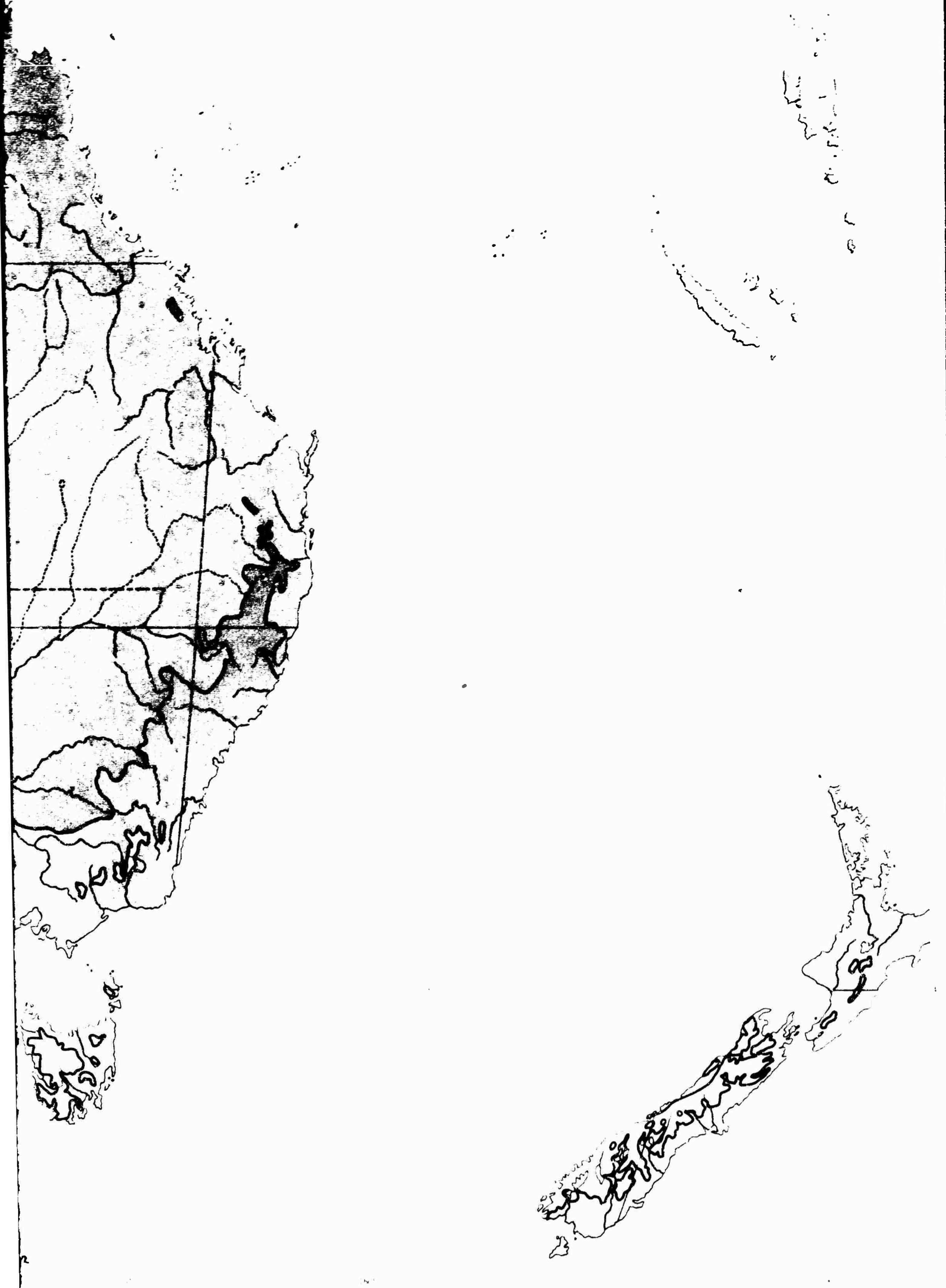
MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE





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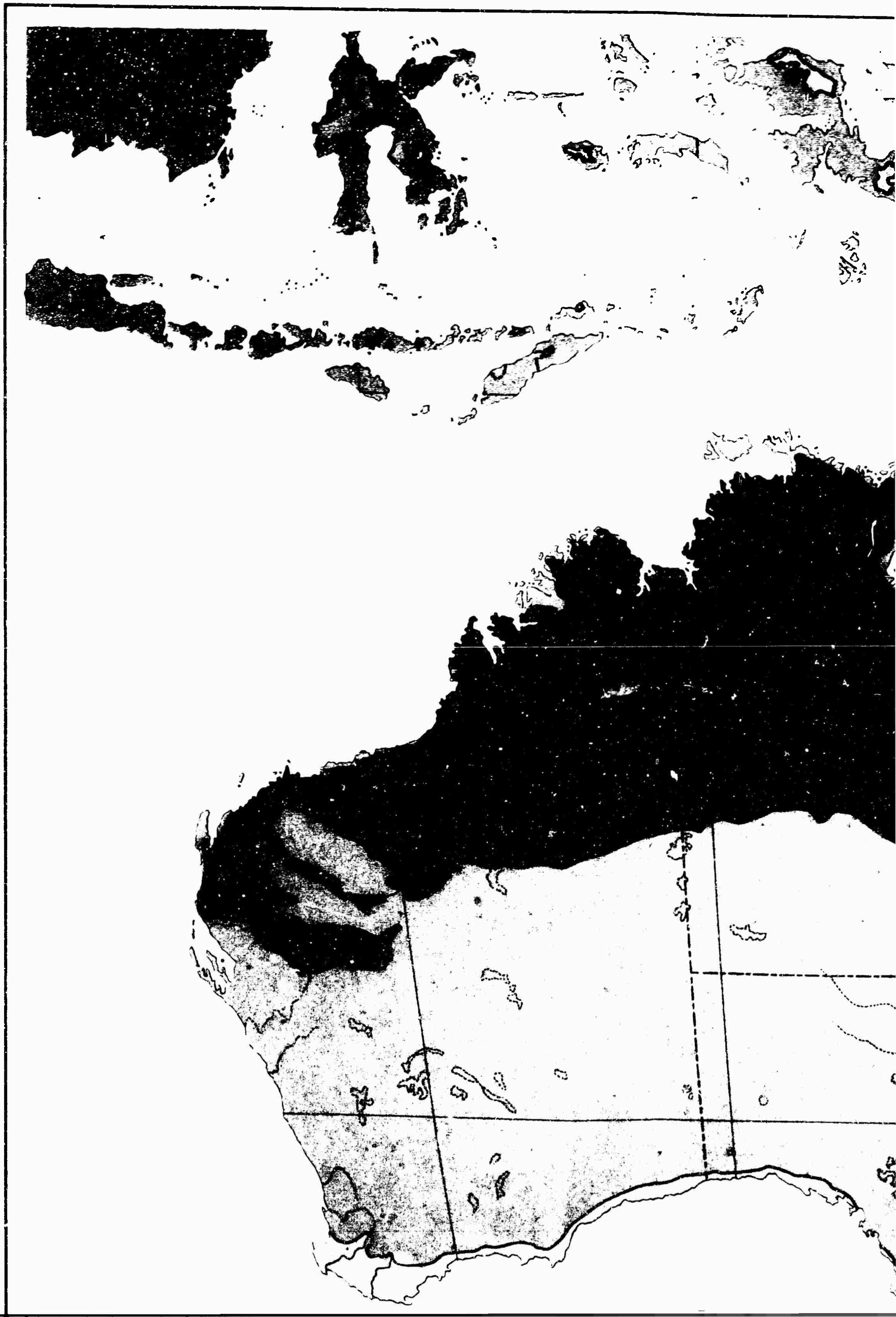

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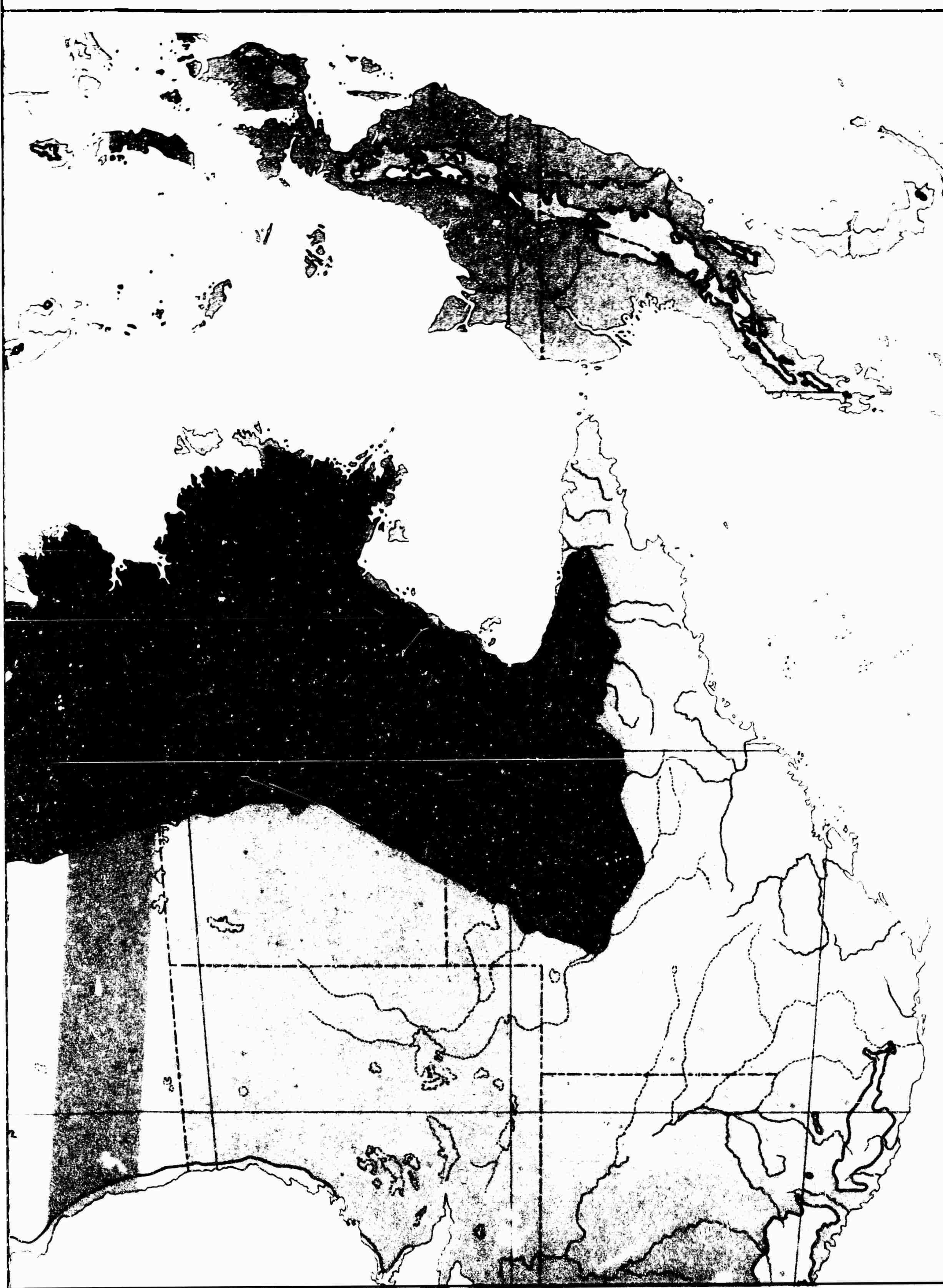

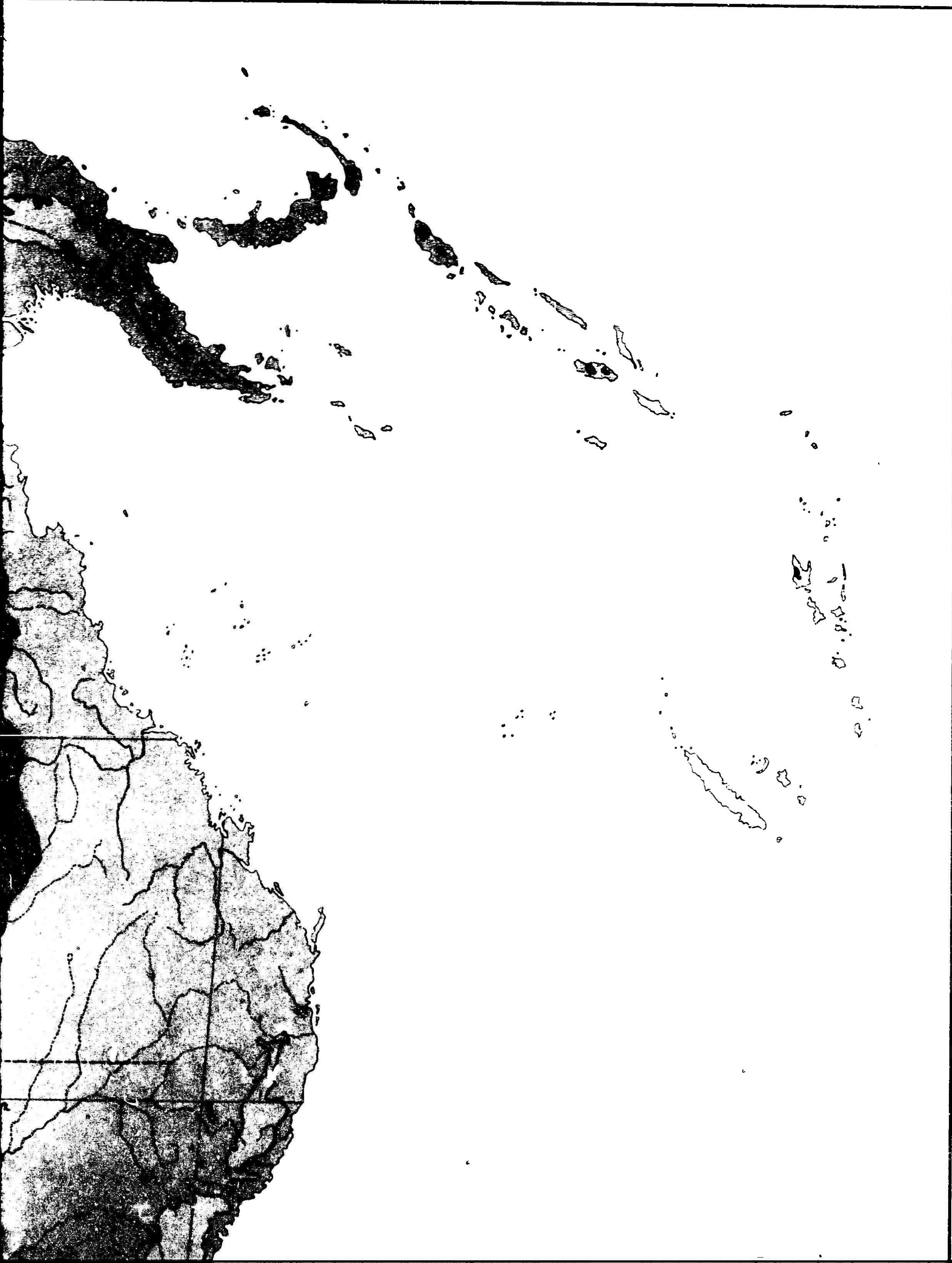

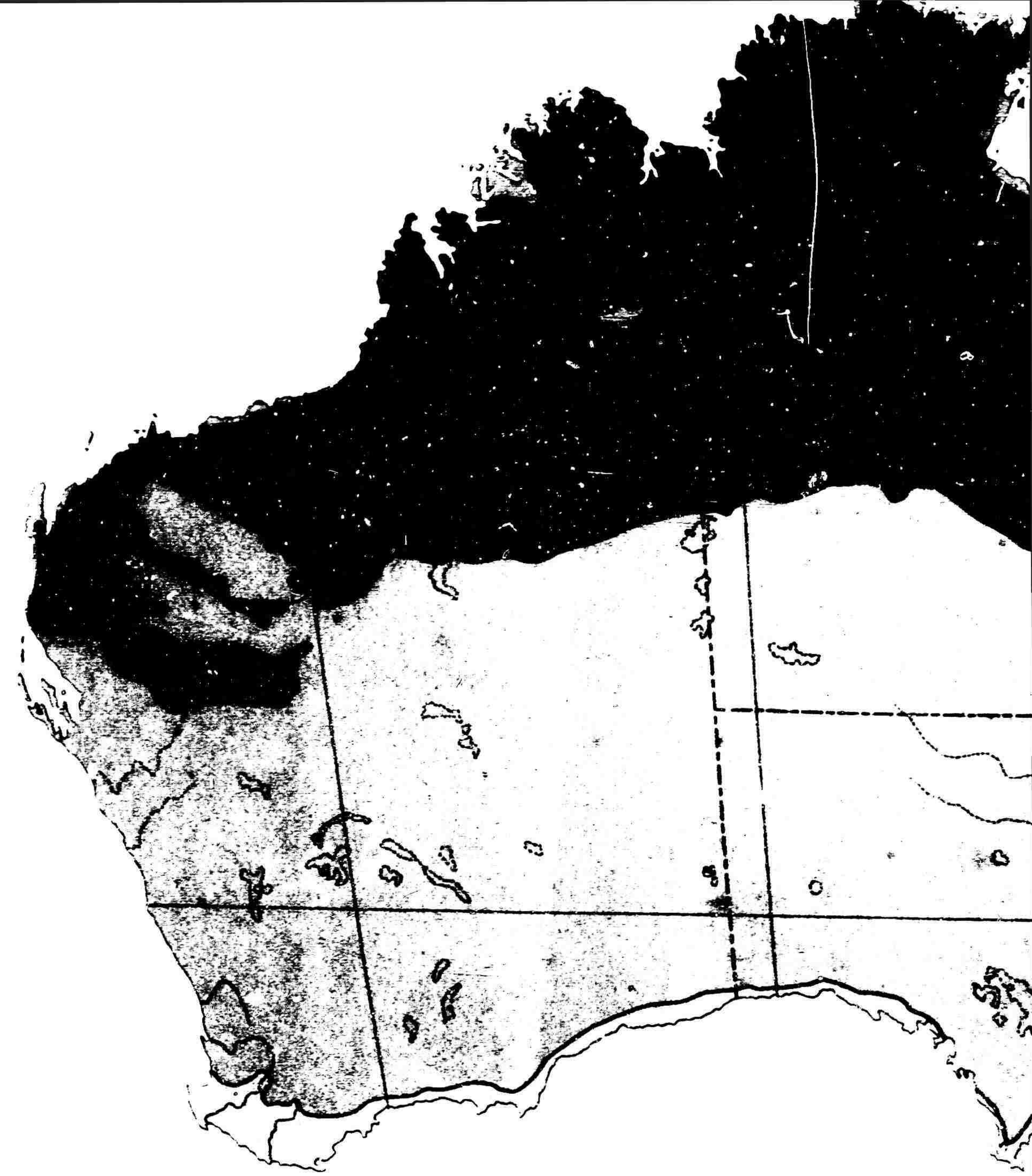

AUSTRALIA

MEAN TEMPERATURE

DECEMBER

CENTIGRADE	FAHRENHEIT
30°	86°
20°	68°
10°	50°
0°	32°

SCALE 1:12,000,000

0 50 100 200 300 400 500

MILES

SINUSOIDAL PROJECTION

THE DELINEATION OF INTERNATIONAL BOUNDARIES ON THIS MAP MUST NOT BE CONSIDERED AUTHORITATIVE