

The **V**



**NATIONAL
GEOGRAPHIC**

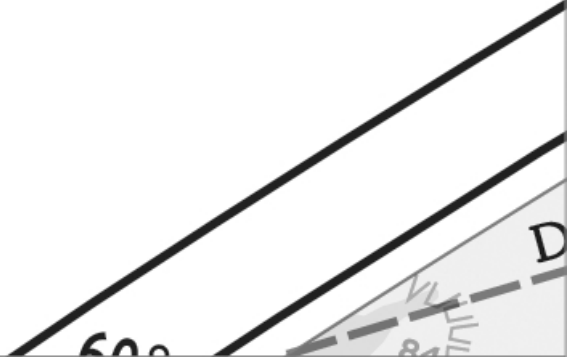
edu

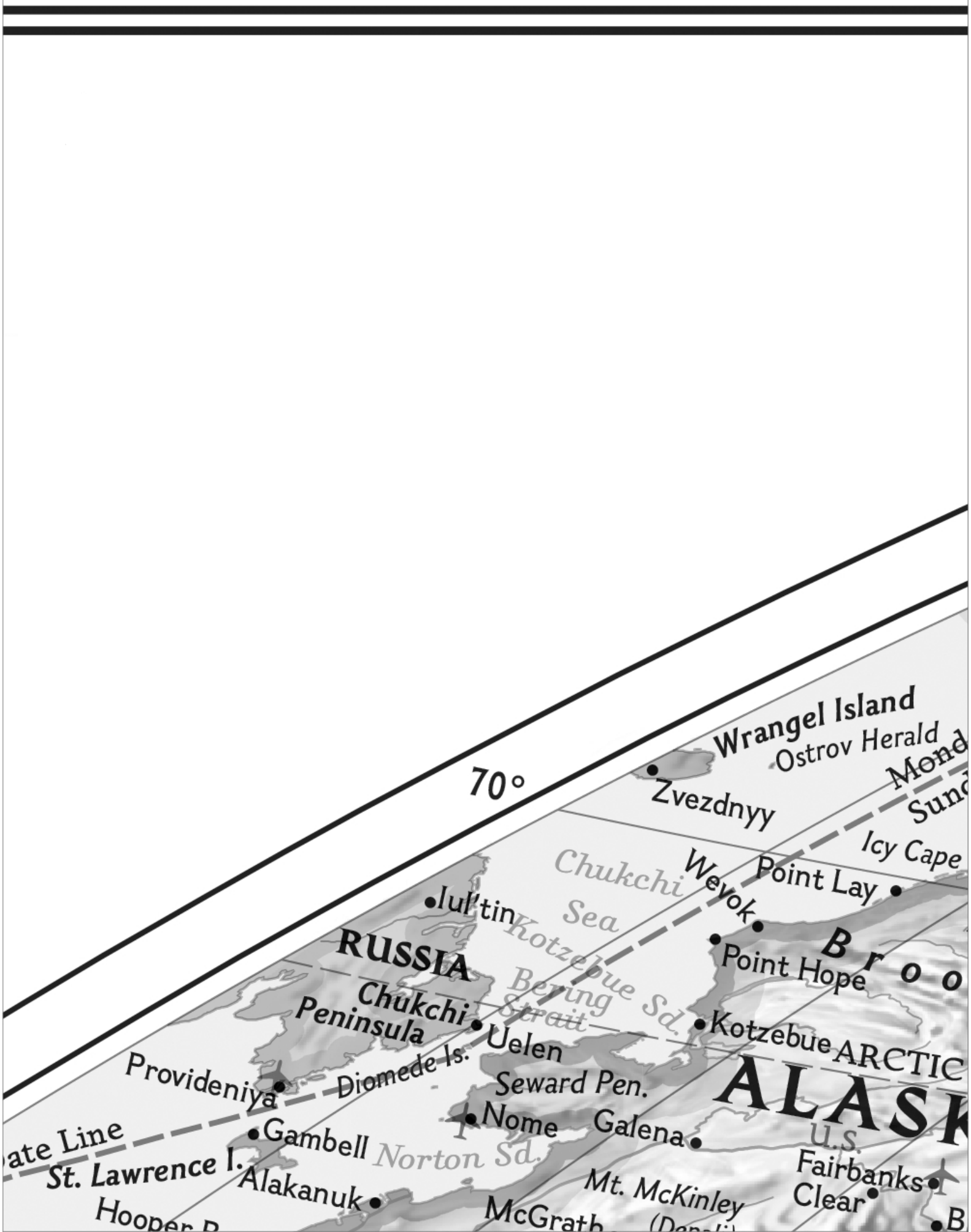
VOIRL

**AL
PHIC**

cation  **n**

D





70°

Wrangel Island

Ostrov Herald

Zvezdnyy

Mond

Sund

Icy Cape

Point Lay

Chukchi Sea

Weyok

Point Hope

BR

RUSSIA

Chukchi Peninsula

Iul'tin

Bering Strait

Uelen

Seward Pen.

Kotzebue Sd.

ARCTIC

ALASKA

Provideniya

Diomedes Is.

Nome

Galena

U.S.

ate Line

St. Lawrence I.

Gambell

Norton Sd.

Mt. McKinley

Fairbanks

Hooper P.

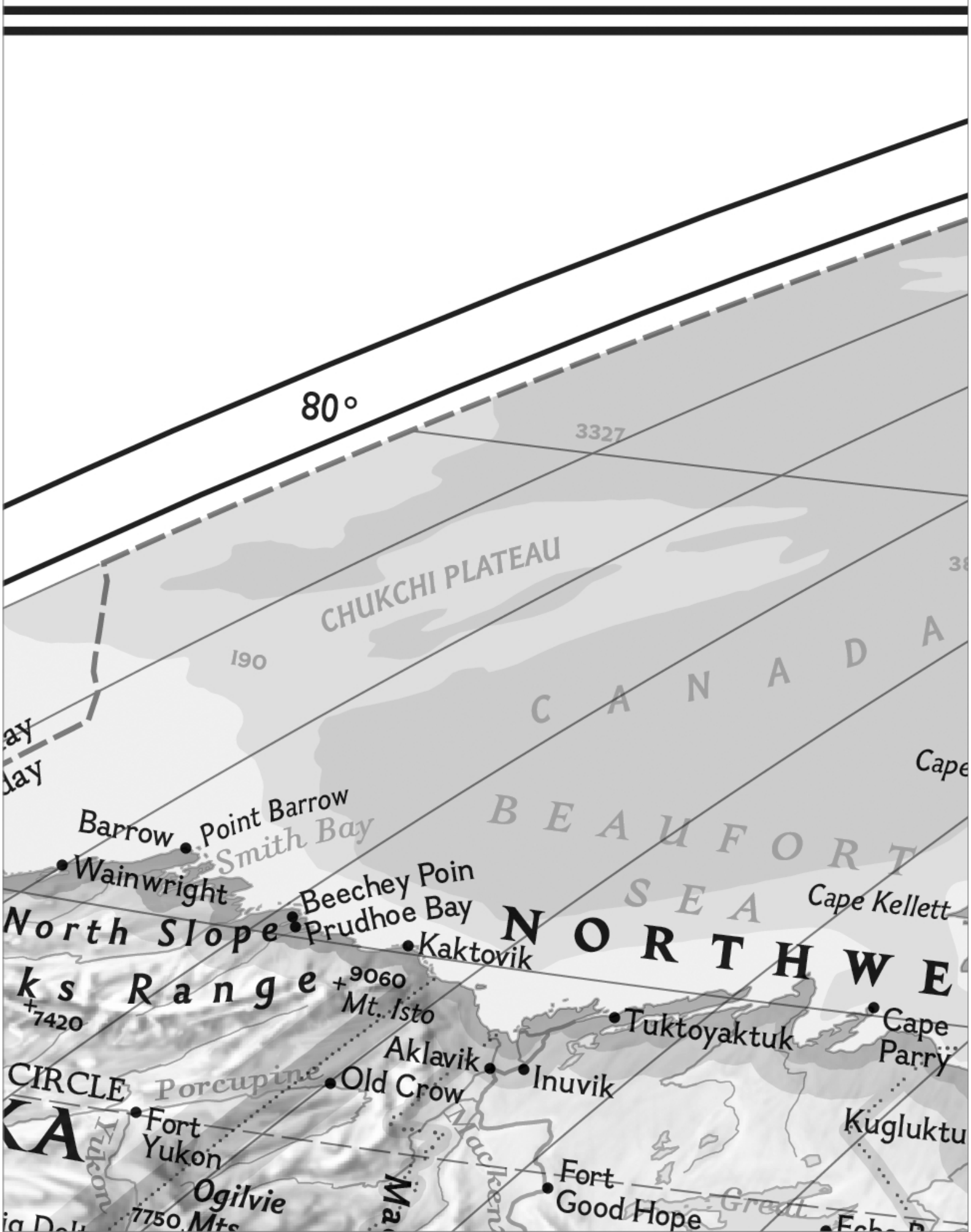
Alakanuk

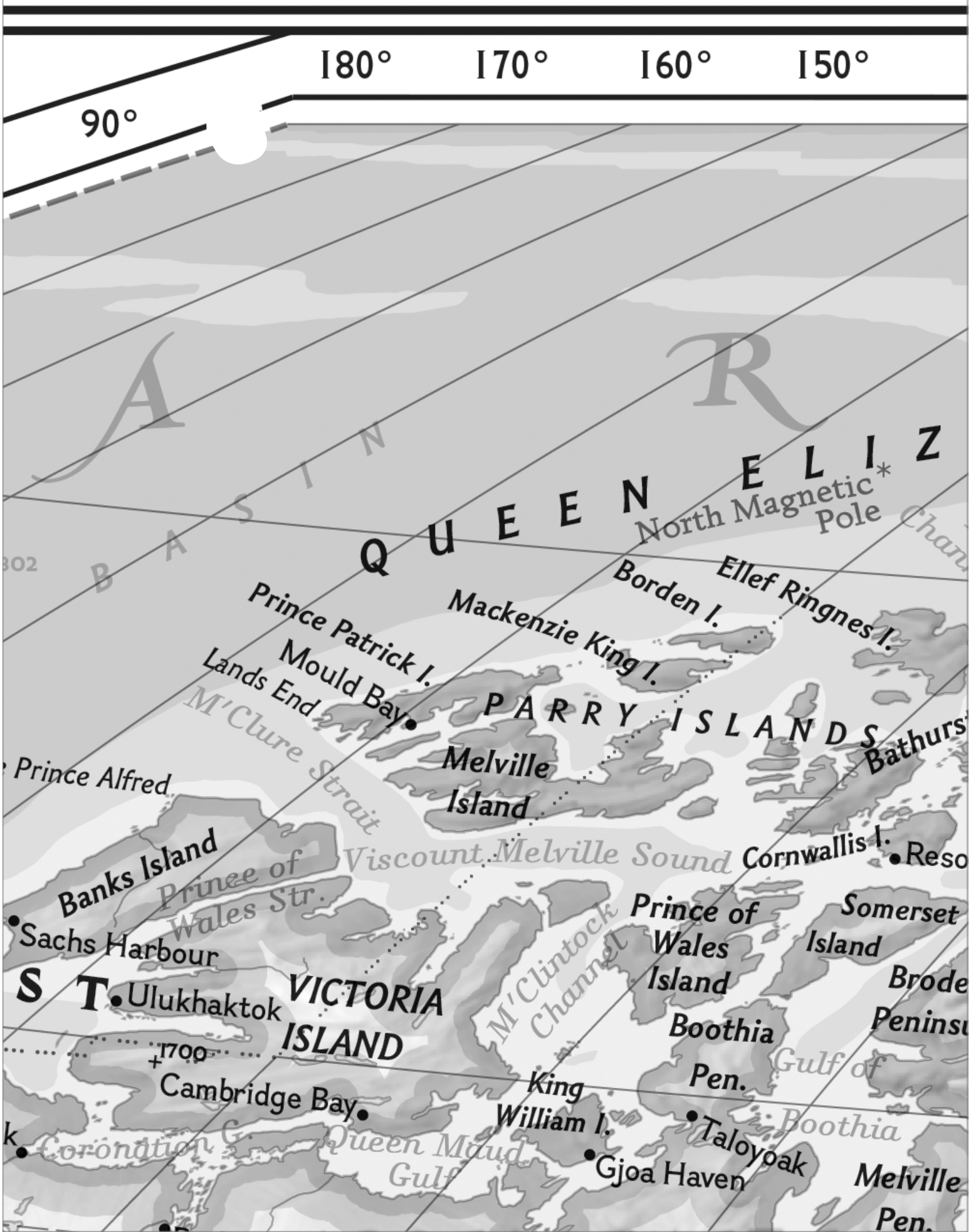
McGrath

(Denali)

Clear

B





180° 170° 160° 150°

90°

A

R

QUEEN ELIZ

North Magnetic Pole*

Prince Patrick I. Mackenzie King I. Borden I. Ellef Ringnes I.

PARRY ISLANDS

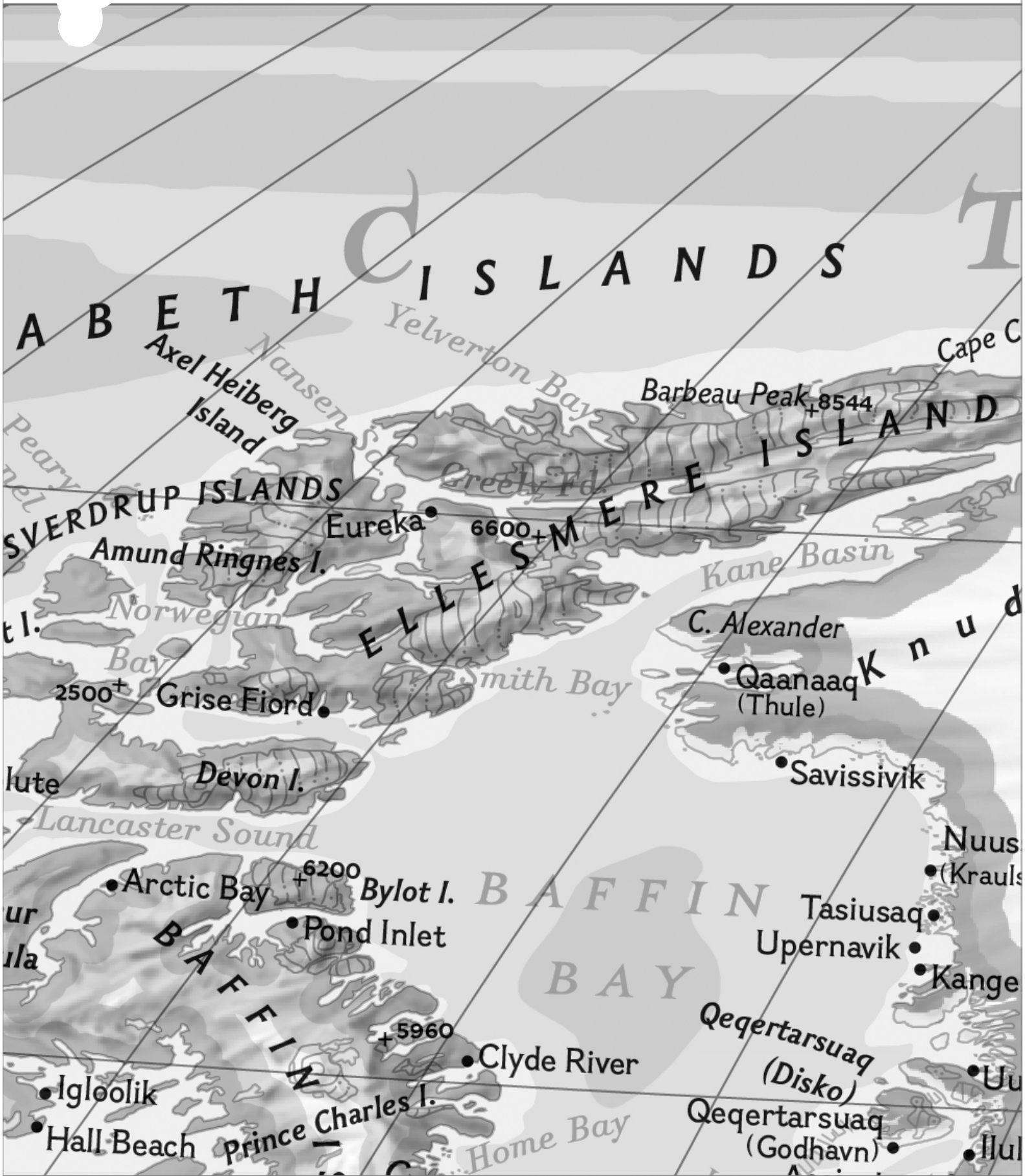
Melville Island

Prince Alfred. Banks Island. Sachs Harbour. Uluksaktok. Cambridge Bay. Queen Maud Gulf. King William I. Gjoa Haven. Taloyoak. Boothia Pen. Melville Pen.

VICTORIA ISLAND

1700

140° 130° 120° 110° 100° 90°



80°

70°

60°

50°

40°

30°

Longitude

I

Columbia

Alert

Lincoln Sea

Victoria Fjord

Nares Land

Nansen Land

Lockwood I.

Cape Morris Jesup

Oodaaq I.

Peary Land

Rasmussen Land

Land

Independence Fjord

Danmark Fjord

King

Frederik VIII

Land

GREENLAND (KALAALLIT NUNAAT)

Denmark

suvaq
shavn)

rsuatsiaq (Prøven)

mmannaq

issat (Jakobshavn)

+10728
Ice thickness 11188

King
Christian X
Land

Clave

Foster I

Ittoqqorto
(Scoresbysu

Scoresby Sound

20°

10°

0°

10°

20°

West of Greenwich

Longitude East of Gr

Meridian of Greenwich
(London)

Wandel
Sea

North-east Foreland

Prince Charles Foreland

Spitsbergen 56°

Longyearbyen

Norske Øer

Qeqertaq Prins Henrik

ove Bay

Shannon

ring I.

Bay

ormiit
nd)

JAN MAYEN
7470+ Norway

5608
S E A

Storifjord

R E E N L A N D

N O R W E G I A N

Tro

30° 40° 50° 60° 70° 80°

Greenwich



90°

100°

110°

120°

130°

140°



150°

160°

170°

180°

90°

M A K A I

A

N

nd

r Revolution Island

Bol'shevik Island

068+

elyuskin

Vil'kitskiy Strait

Mys Dika

Kotel'nyy Island

+3760

L A P T E V

ymyr Peninsula

Lake Taymyr

Khatanga Gulf

Gulf of Olenek

Tostuya

Ust' Olenek

Sag

Ary

Starorybnoye

Khatanga

Saskylakh

Sk

Agapa

Volochanka

Boyarka

Kayak

Kotua

Staraya

Zhilinda

Ku

G

inka

Noril'sk

+5344

Potapovo

Igarka

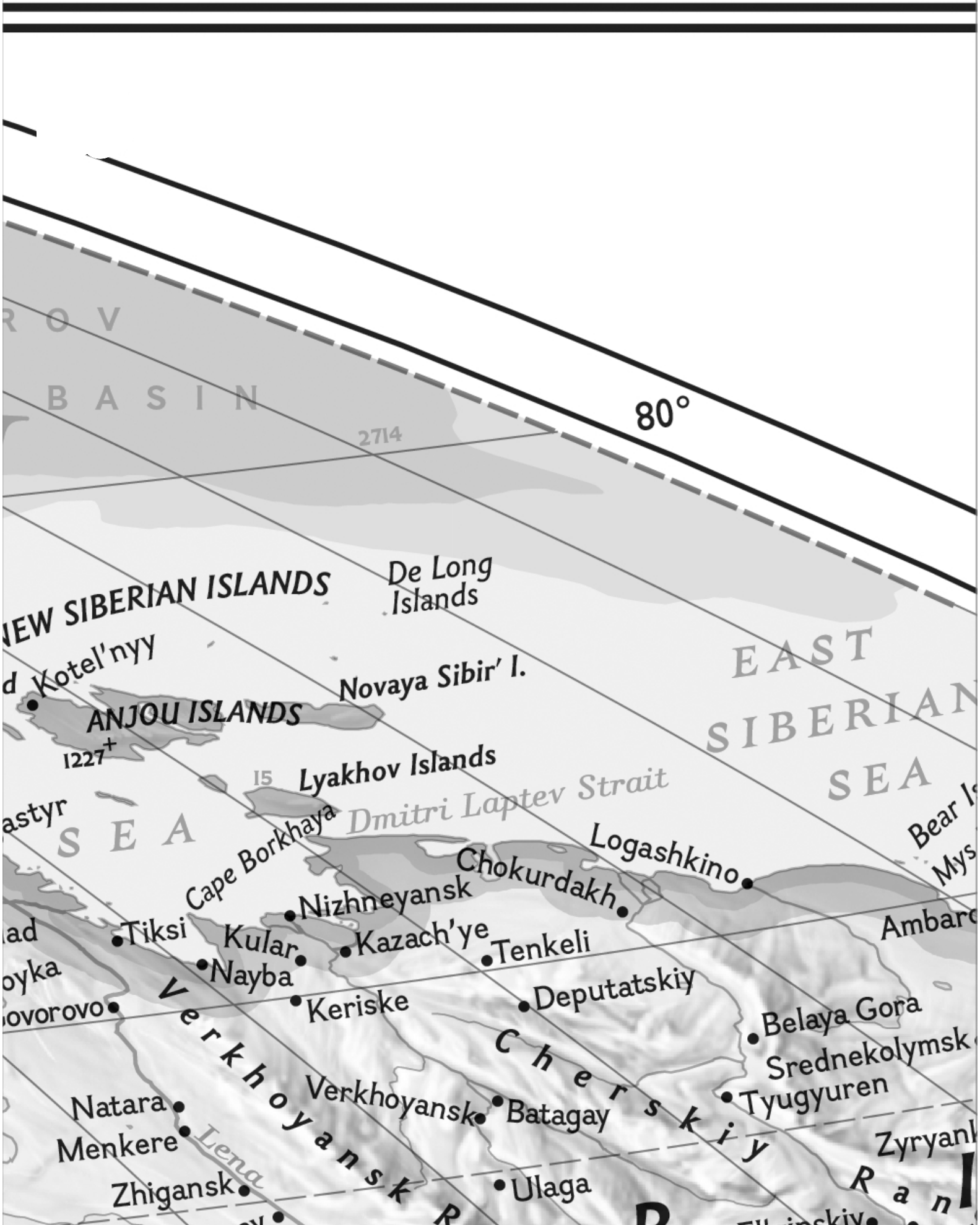
Yessey

Chirinda

Kirbey

Put' Lenina

Olenek



ROV
BASIN

2714

80°

NEW SIBERIAN ISLANDS

De Long Islands

Kotel'nyy

Novaya Sibir' I.

EAST
SIBERIAN
SEA

ANJOU ISLANDS

1227+

15 Lyakhov Islands

astyr
SEA

Cape Borkhaya

Dmitri Laptev Strait

Logashkino

ad
oyka
ovorovo

Tiksi

Kular

Nayba

Kazach'ye

Tenkeli

Nizhneyansk

Keriske

Deputatskiy

Natara
Menkere

Zhigansk

Verkhoyansk

Batagay

Belaya Gora
Srednekolymsk

Tyugyuren

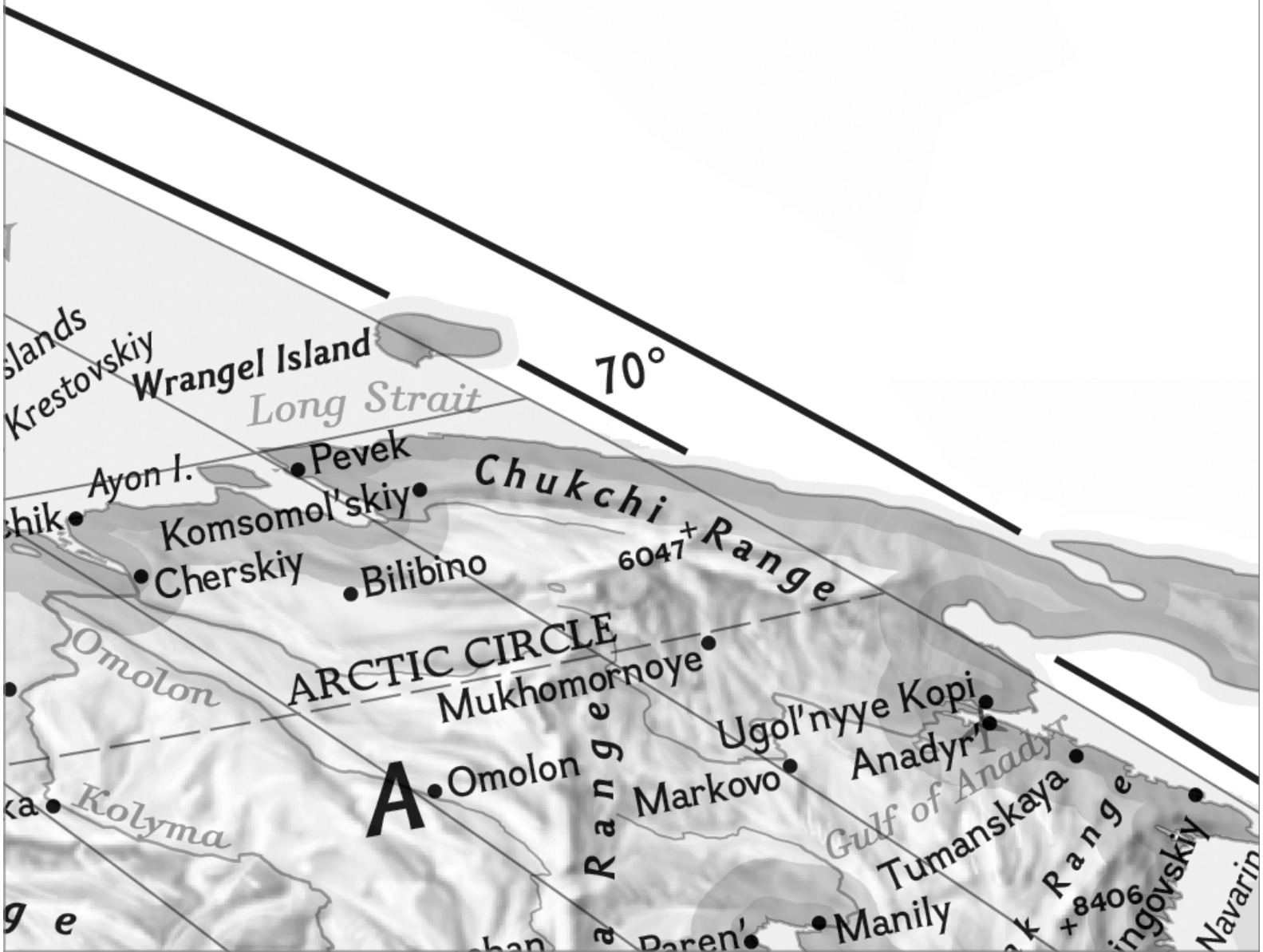
chobnyy
tchanay

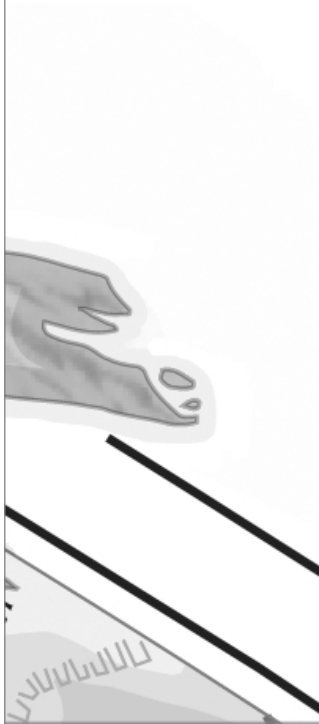
Ulaga

El'qinskiy

Zyryank

Ran





GEOGRAPHIC COMPARISONS

THE EARTH

ARE

	Square Kilometers	Square Miles
Total	510,066,000	196,938,000
Water	361,419,000	139,545,000
Land	148,647,000	57,393,000

THE OCEANS

Pacific	169,479,000	65,436,200
Atlantic	91,526,400	35,338,500
Indian	74,694,800	28,839,800
Arctic	13,960,100	5,390,000

THE CONTINENTS

Asia	44,570,000	17,208,000
Africa	30,065,000	11,608,000
North America	24,474,000	9,449,000
South America	17,819,000	6,880,000
Antarctica	13,209,000	5,100,000
Europe	9,947,000	3,841,000
Australia	7,692,000	2,970,000

EA

Percent of Earth's Surface

70.9 %

29.1 %

Percent of Earth's Water

46.8 %

25.3 %

20.6 %

3.9 %

Percent of Earth's Land

30.0 %

20.2 %

16.5 %

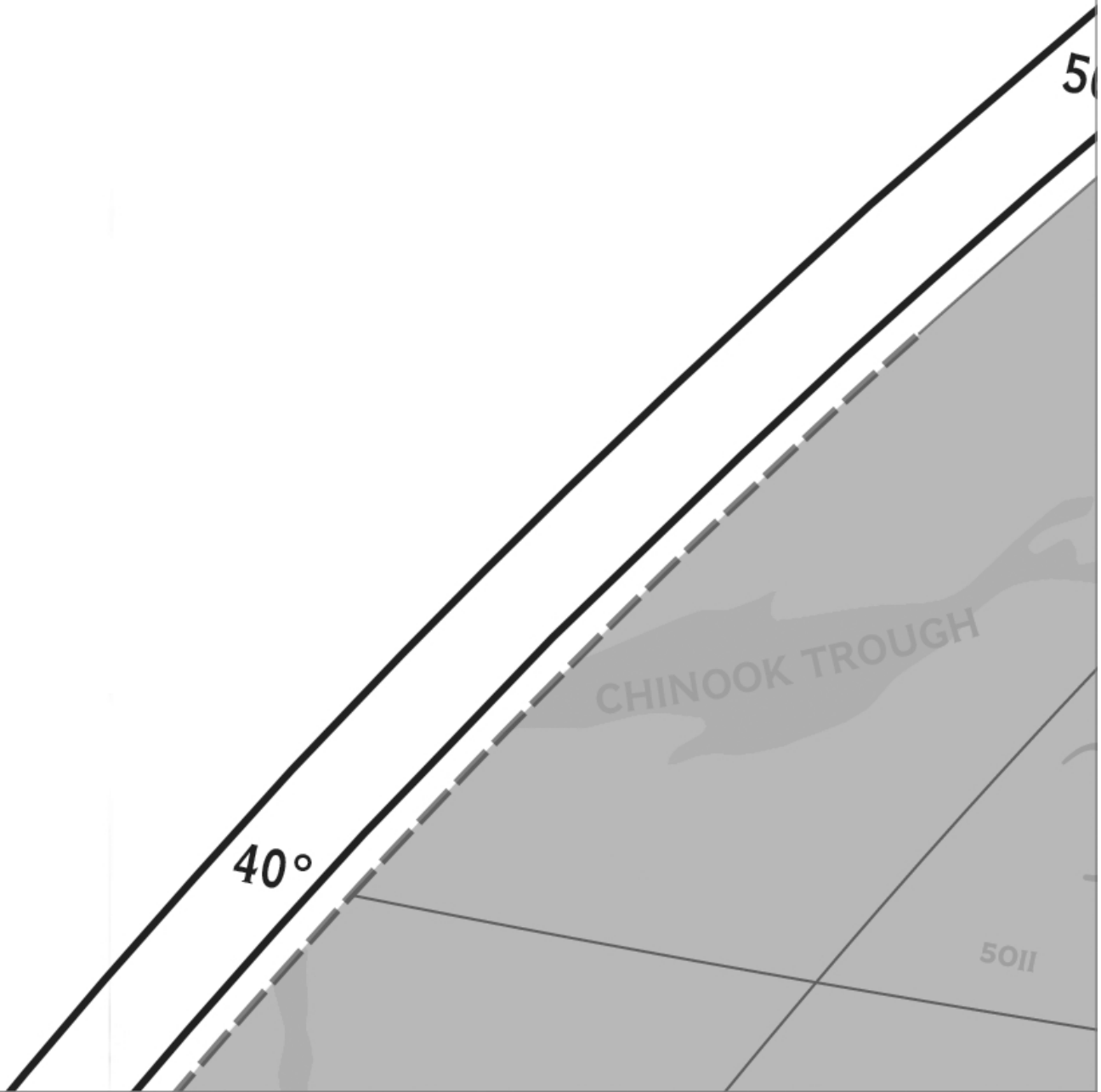
12.0 %

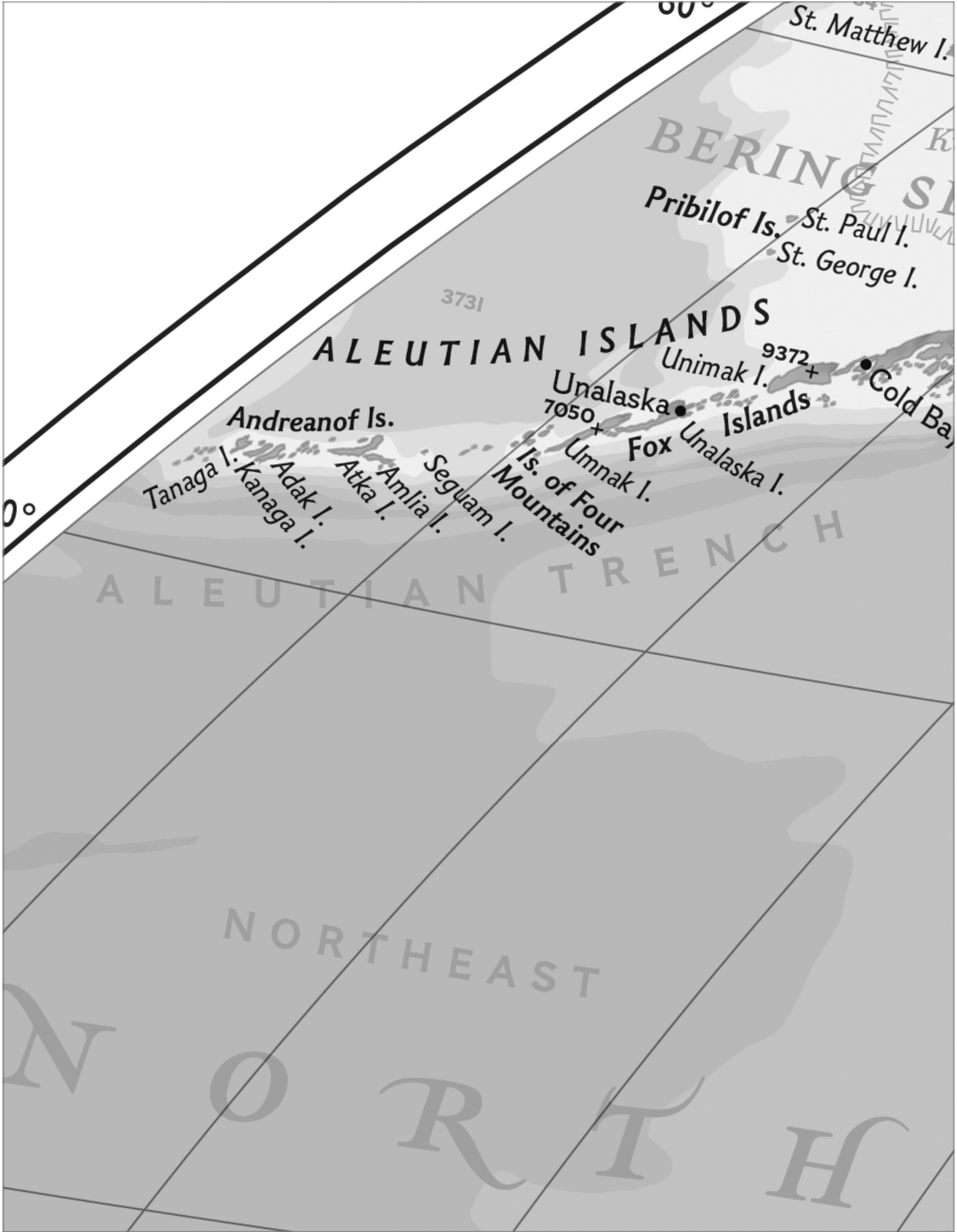
8.9 %

6.7 %

5.2 %







St. Matthew I.

BERING SEA

Pribilof Is. St. Paul I.
St. George I.

ALEUTIAN ISLANDS

Unimak I. 9372+

Unalaska I. 7050+

Fox Islands

Umnak I.

Is. of Four Mountains

Seguam I.

Amliia I.

Andreanof Is.

Tanaga I. Kanaga I.

Adak I.

Cold Bay

ALEUTIAN TRENCH

NORTHEAST

N O R T H



Tununak • Bethel • Red Devil • Palmer • Anchorage • Valdez

Nunivak Island • Homer • Seward • Whittier • Cordova • Mt. Black

Togiak • Dillingham • Kodiak • Afognak I. • Mt. Fairweather • Juneau

Alaska Peninsula • Trinity Is. • Kodiak I. • Sitka • Hoonah

Shumagin Is. • Alexander Archipelago • Prince Rupert • Ketchikan

Haida Gwaii (Queen Charlotte Islands) • Kitimat • Terr

Vancouver I. • Mt. Waddington • Vancouver • Kelow

Victoria • Seattle • Tacoma • Olympia • Mt. Rainier

Portland • Salem • Eugene • Bend • Mt. St. Helens

Coos Bay • Eugene • Bend • Mt. Hood

Boise

OREGON

WASH

COL

ALASKA

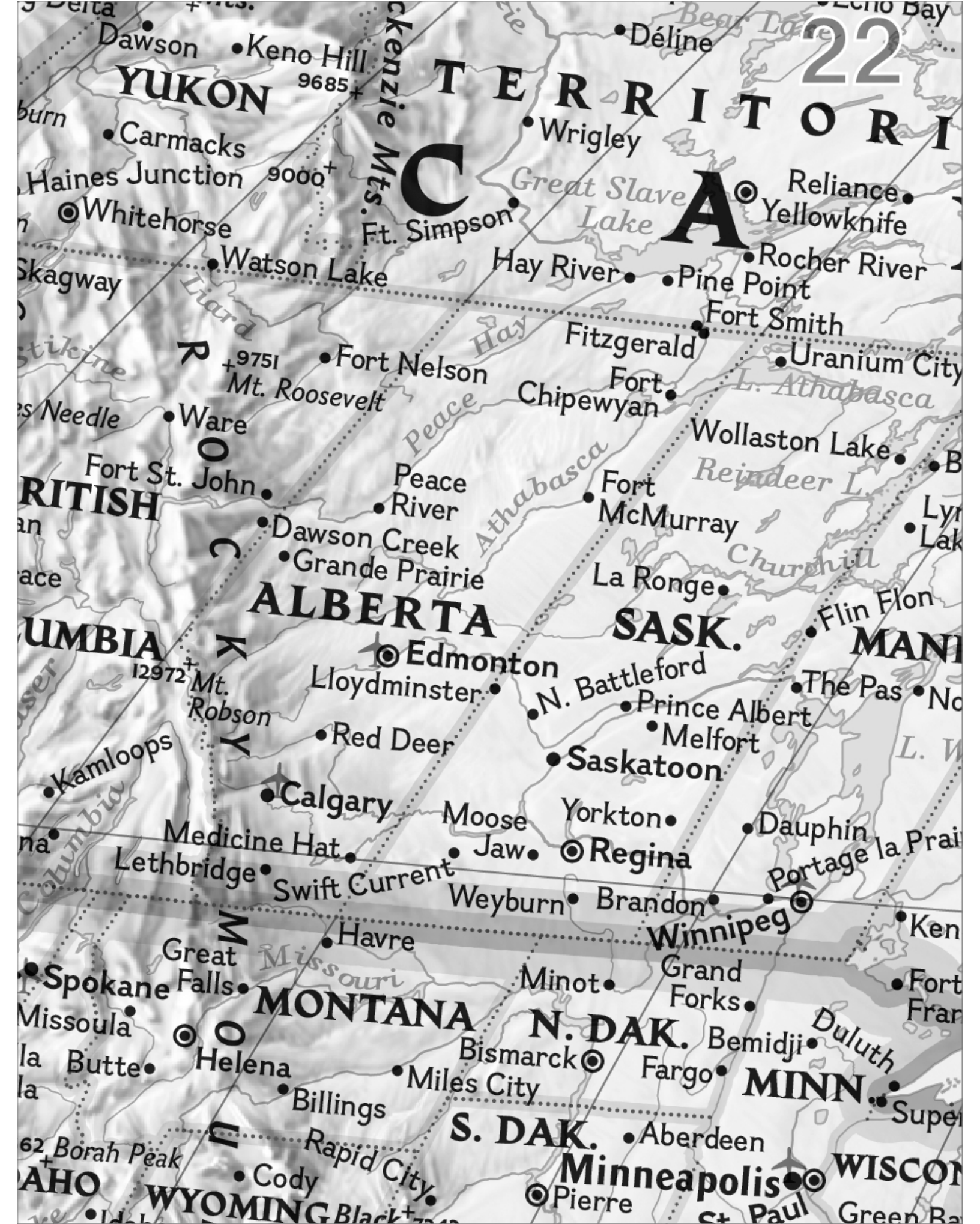
ALASKA RANGE

GULF OF ALASKA

ALEXANDER ARCHIPELAGO

QUEEN CHARLOTTE ISLANDS

VANCOUVER ISLAND



YUKON

WESTERN TERRITORIES

BRITISH COLUMBIA

ALBERTA

SASK.

MANITOBA

COLUMBIA

MONTANA

N. DAK.

S. DAK.

MINN.

IDAHO

WYOMING

MINNEAPOLIS

WISCONSIN

Dawson • Keno Hill 9685+

Carmacks • Haines Junction • Whitehorse

Watson Lake • Skagway

Fort Nelson • Ware • Fort St. John

Peace River • Dawson Creek • Grande Prairie

Edmonton • Lloydminster • Red Deer

Calgary • Moose Jaw • Medicine Hat • Lethbridge • Swift Current

Spokane • Missoula • Helena • Billings • Miles City

Cody • Rapid City

Déline • Wrigley • Yellowknife

Hay River • Pine Point • Fort Smith • Uranium City

Fort McMurray • La Ronge • Saskatoon

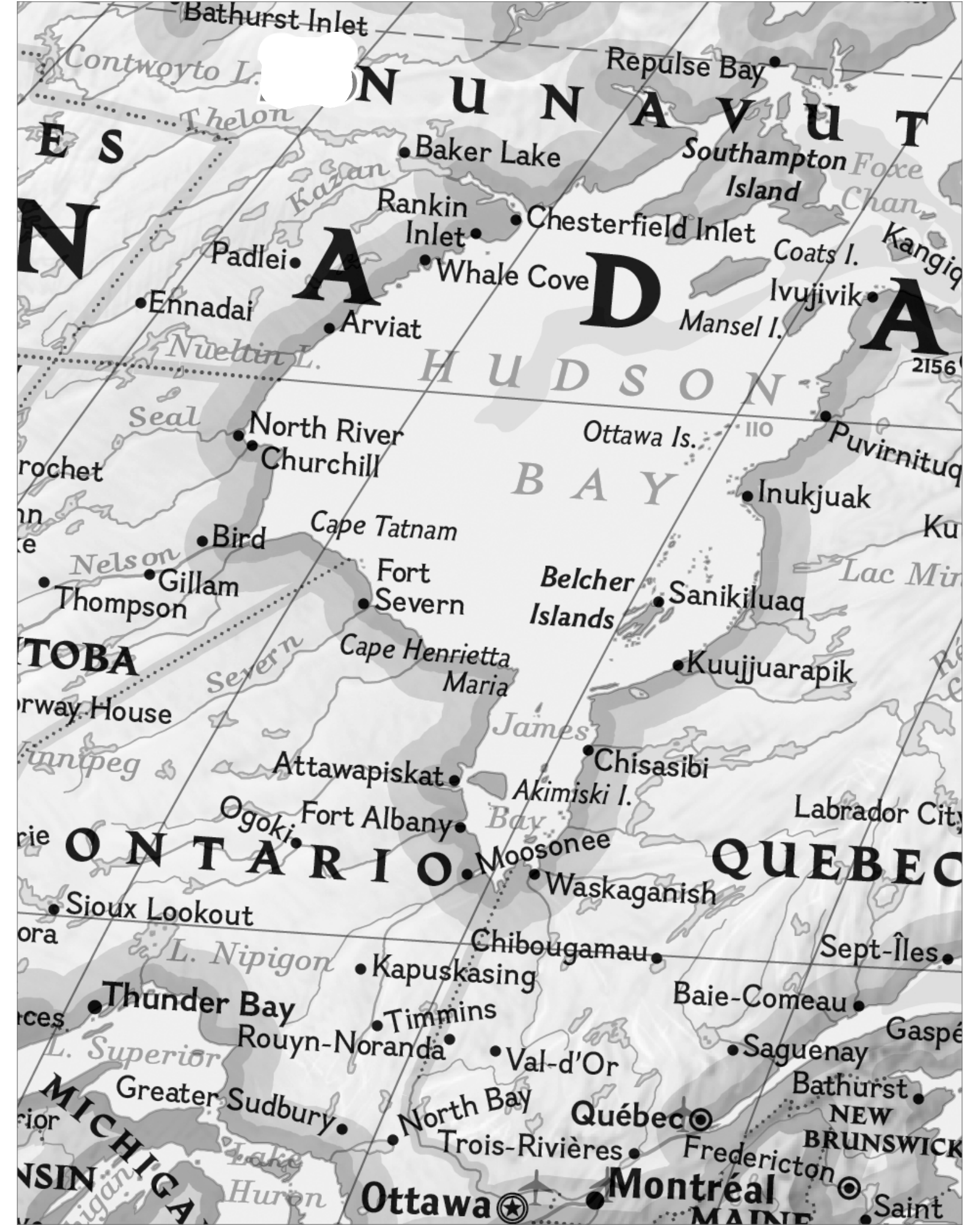
N. Battleford • Prince Albert • Melfort • Regina

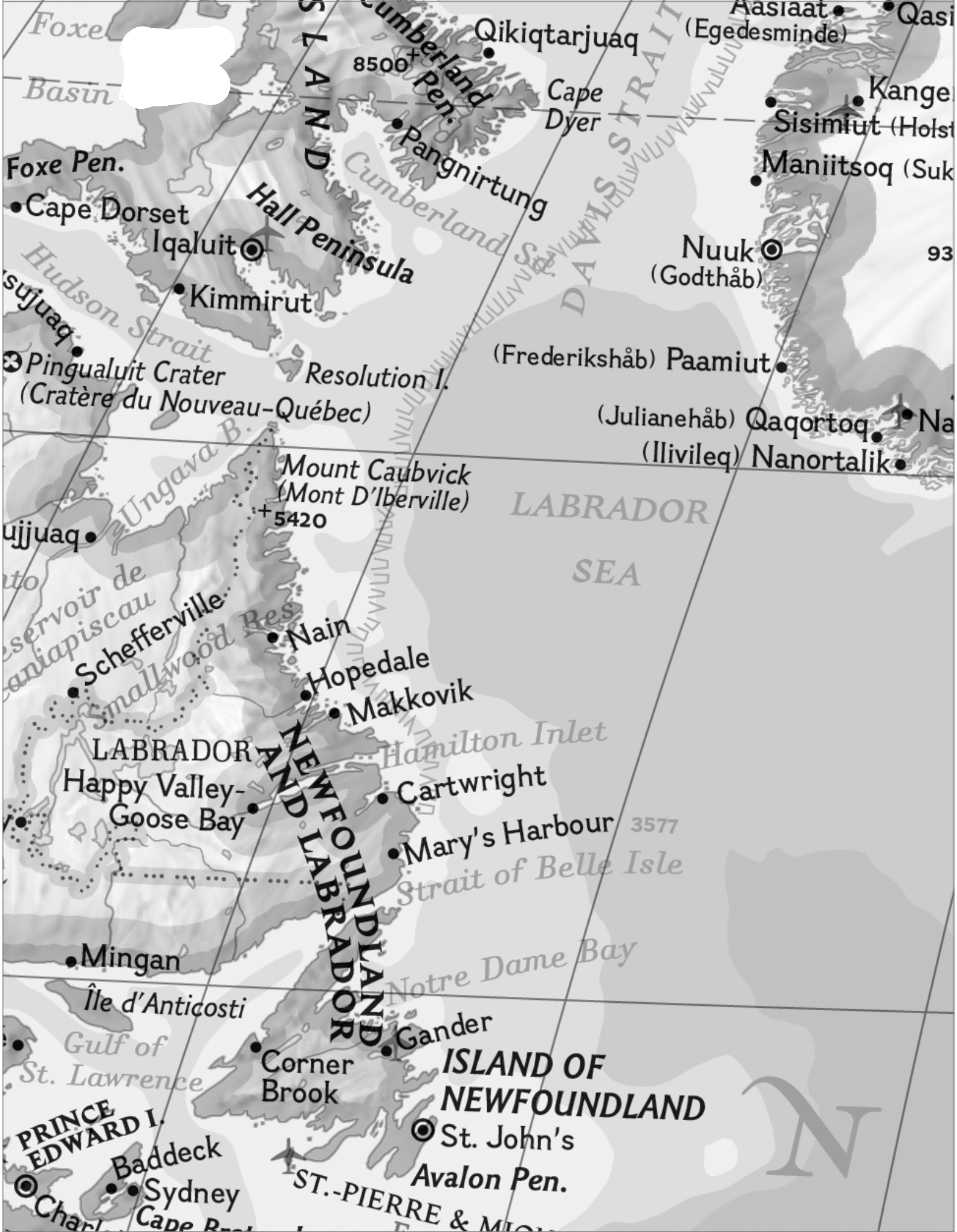
Winnipeg • Yorkton • Dauphin • Portage la Prairie

Minneapolis • Pierre • Fargo • Bemidji • Duluth

Aberdeen • St. Paul

22









Vesterålen

Lofoten
Bodø

Mo-i-Rana

NORWAY

Namsos 4560+

Trondheim

Ålesund Røros

Galdhøpiggen 8100 Lillehammer

Bergen

Oslo

Stockholm

Haugesund Skien

Stavanger

Kristiansand

Linköping

Göteborg

Nordoyar
Tórshavn
FAROE IS.
Denmark

Shetland Is.
Lerwick

Orkney Is.

Isle of Lewis
Hebrides
Wick
Inverness
Aberdeen

SCOTLAND
Dundee

Glasgow
Edinburgh

UNITED KINGDOM

NORTHERN IRELAND

Belfast

IRELAND

Dublin

Shannon
Waterford

Cork

WALES
Birmingham

Cardiff

Celtic
Land's End

English Chan.
Sea
U.K. CHANNEL IS.
Brest

Rennes

Nantes

Paris

FRANCE

Calais

Cherbourg
Octeville

BELGIUM
Brussels

Rotterdam

Cologne

Bonn

LUX.

Nürnberg

Strasbourg

Bern

Stuttgart

Zürich

Munich

DENMARK
Copenhagen

Arhus

Kiel

Bremen

Hamburg

GERMANY

Frankfurt

Dresden

NORTH SEA

NETHERLANDS
Amsterdam

Amsterdam

Amsterdam

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Amsterdam

3069

Vopnafjörður
Höfn

RISE

Skagerrak

SEA

LAND

LAND

LAND

LAND

LAND

LAND

LAND

LAND

SEA

SWEDEN

Örnsjö

Sundsvall

Falu

Linköping

Göteborg

Stockholm

Arhus

Copenhagen

Hamburg

Frankfurt

Dresden

Stuttgart

Zürich

Munich

Bern

Strasbourg

Nürnberg

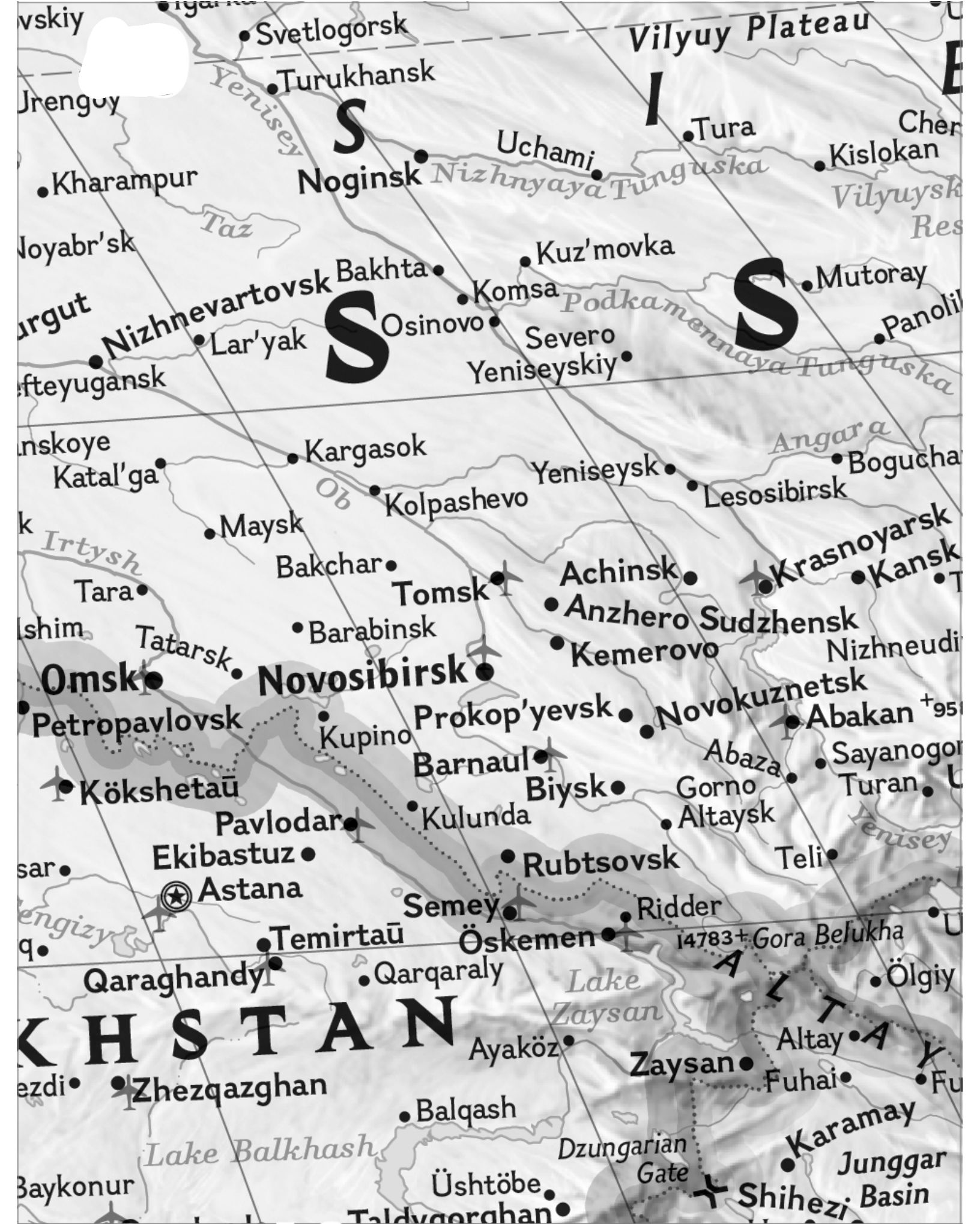
Amsterdam

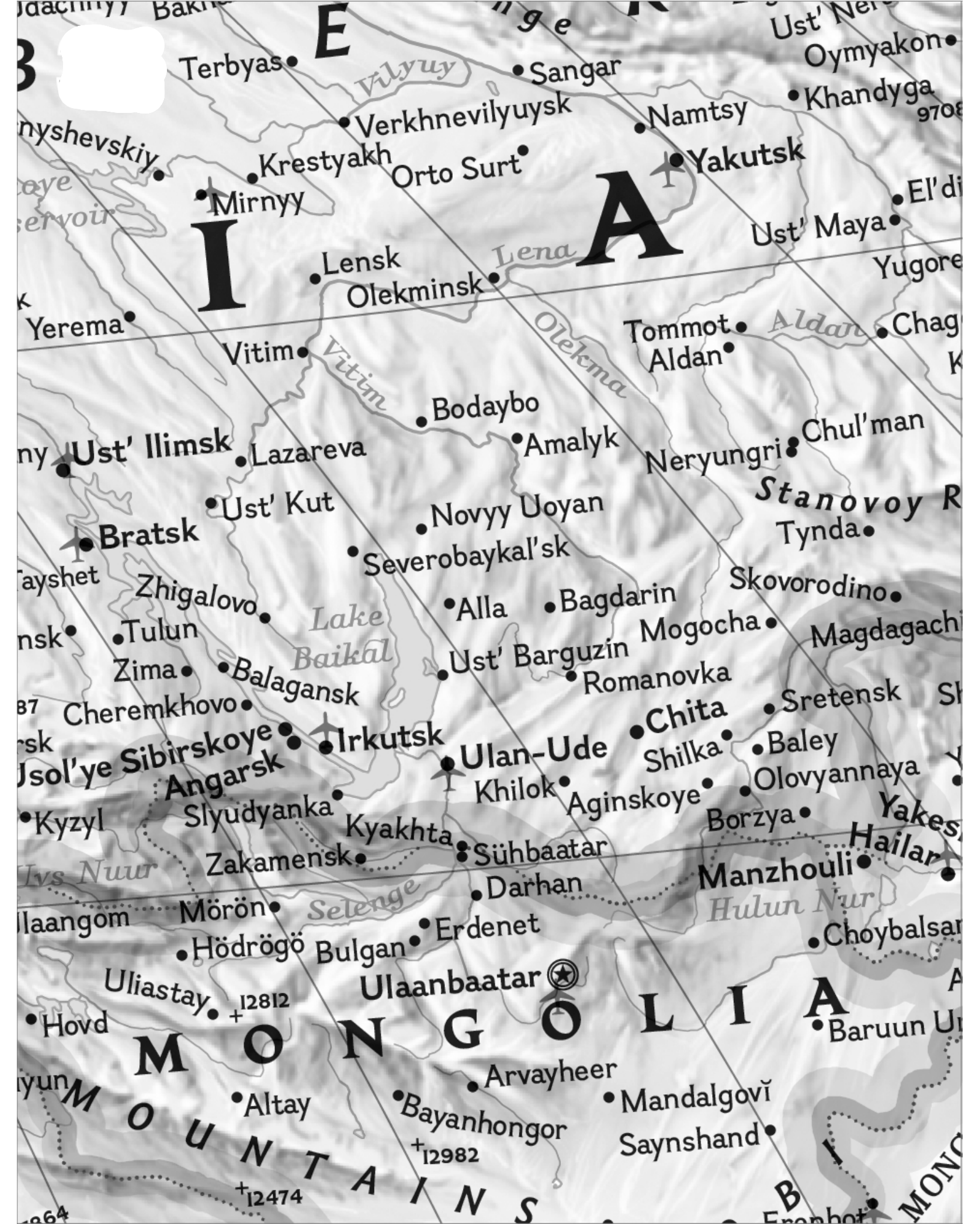
Paris

London









Terbyas

E

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Ust' Ner
Oymyakon

nyshevskiy
oye
ervoir

Mirnyy
I

Orto Surt

A

Ust' Maya

Yerema

Lensk
Olekminsk

Lena

Tommot
Aldan

Yugore

Vitim

Vitim

Bodaybo

Amalyk

Chag

ny
Ust' Ilimsk
Lazareva

Ust' Kut

Novyy Uoyan

Neryungri
Chul'man

Stanovoy R
Tynda

ayshet
Bratsk

Severobaykal'sk

Alla

Bagdarin

Skovorodino

nsk
Zhigalovo
Tulun

Lake
Baikal

Ust' Barguzin

Mogocha

Magdagach

87
Cheremkhovo

Isol'ye Sibirskoye
Angarsk

Irkutsk

Ulan-Ude

Chita

Sretensk

Kyzyl

Slyudyanka

Kyakhta

Khilok

Aginskoye

Baley

Olovyannaya

Ivs Nuur

Zakamensk

Sühbaatar

Borzya

Yakes
Hailar

laangom

Mörön

Selenge

Darhan

Manzhouli

Choybalsar

Hovd

Uliastay +12812

Ulaanbaatar

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Altay

Bayanhongor +12982

Arvayheer

Mandalgovī

Saynshand

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064

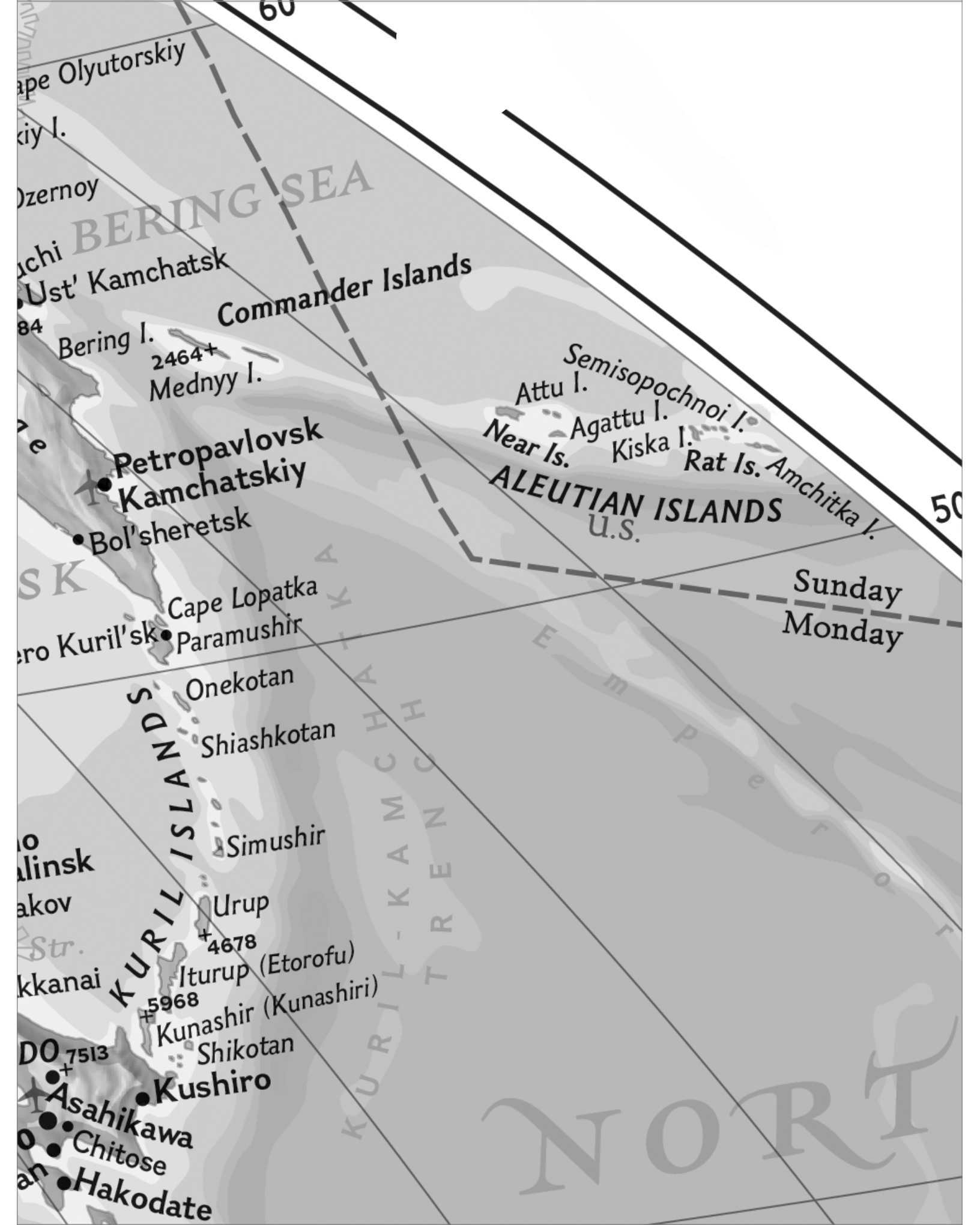


Taskan
Susuman
Gora Mus-Khaya
Sinegor'ye
Solnechnyy
Karamken
Talon
Okhotsk
Ul'ya
Mys Enken
Kekra
Tukchi
Selinde
Ayan
Zeya
Ushumun
Nikolayevsk na Amure
Uda Bay
Shantar Is.
Zey'sk
Chumikan
Ushumun
Nenjiang
Nehe
Zalantun
Qiqihar
Ulanhot
Daqing
Baicheng
Harbin
Changchun
Tongliao
Xilinhot
6657+

Seymchan
Omsukchan
6004+
Kolymskaya
Magadan
Siglan
Palana
Ust-Tigil'
Utkholok
Saint Jona I.
Cape Elizabeth
Okha
Lazarev
De Kastri
Komsomol'sk na Amure
Blagoveshchensk
Nenjiang
Birobidzhan
Yichun
Hegang
Jiamusi
Shuangyashan
Qitaihe
Jixi
Mudanjiang
Jilin
Liaoyuan

Evensk
Shelikhov Gulf
Koryak
Kirovskiy
Korfa
Il'pyrskiy
2992+
Karaginsk
Mys C
Kiy
155
KAMCHATKA
PENINSULA
SEA OF OKHOTSK
Nogliki
Aleksandrovsk
Sakhalinskiy
3691+
SAKHALIN
Vanino
Sovetskaya Gavan'
Yuzhno-Sakhalinsk
Korsakov
Dal'negorsk
Ussuriysk
Vladivostok
Nakhodka
Sapporo
Muroran

Central Range
11880+
Kirovskiy
Nogliki
Aleksandrovsk
Sakhalinskiy
3691+
SAKHALIN
Vanino
Sovetskaya Gavan'
Yuzhno-Sakhalinsk
Korsakov
Dal'negorsk
Ussuriysk
Vladivostok
Nakhodka
Sapporo
Muroran



ape Olyutorskiy
kiy I.

Dzernoy

chi
Ust' Kamchatsk

84
Bering I.
2464+
Mednyy I.

SK
e
Petropavlovsk
Kamchatskiy
Bol'sheretsk

ro Kuril'sk
Cape Lopatka
Paramushir

Onkotan
Shiashkotan

Simushir

alinsk
akov
Str.
KURIL ISLANDS
Urup
+4678

Iturup (Etorofu)
+5968
Kunashir (Kunashiri)
Shikotan

DO
7513
Asahikawa
Kushiro
Chitose

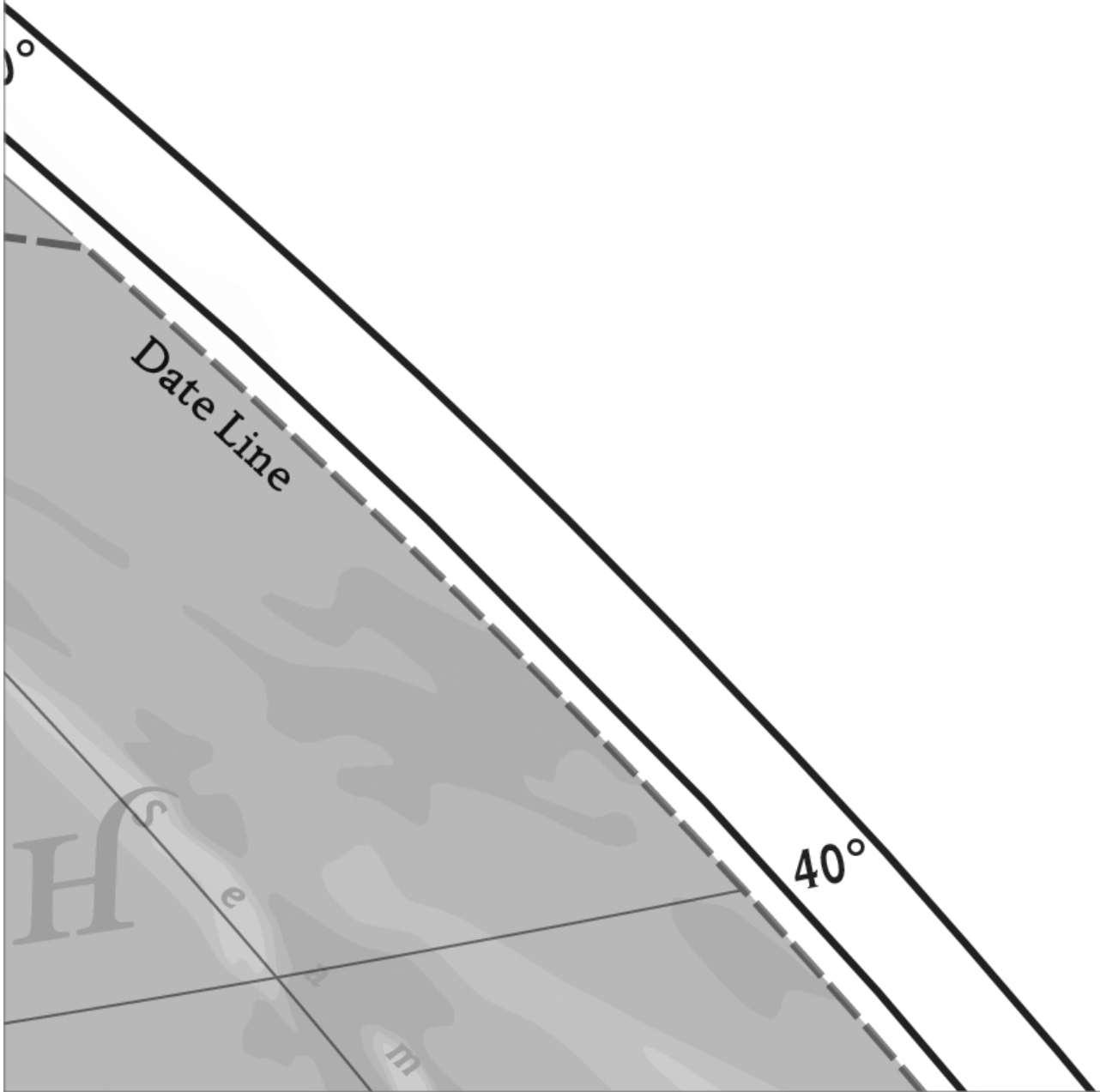
Hakodate

Commander Islands

Semisopochnoi I.
Attu I.
Agattu I.
Near Is.
Kiska I.
Rat Is.
Amchitka I.
ALEUTIAN ISLANDS
U.S.

Sunday
Monday

NORTH



0°

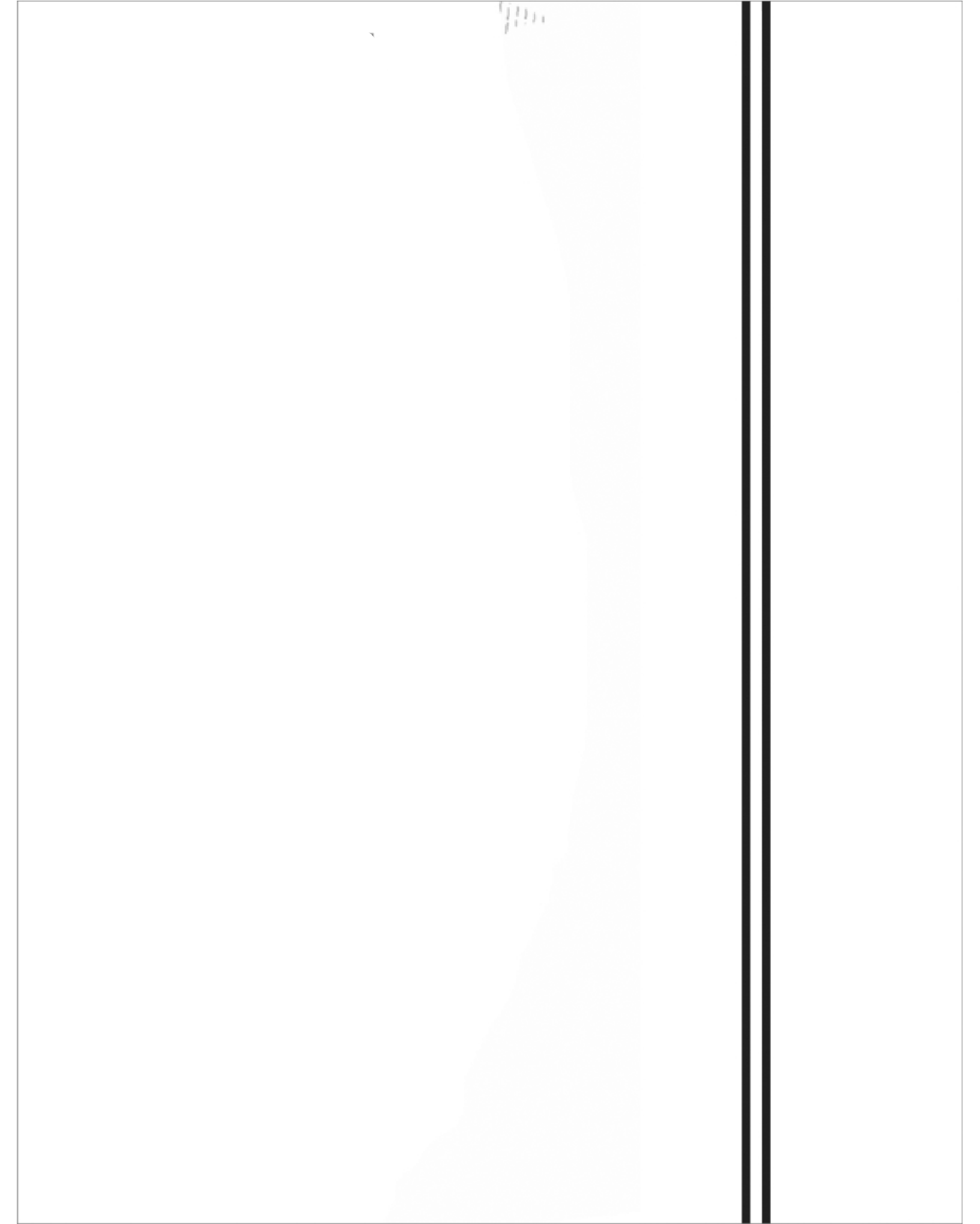
Date Line

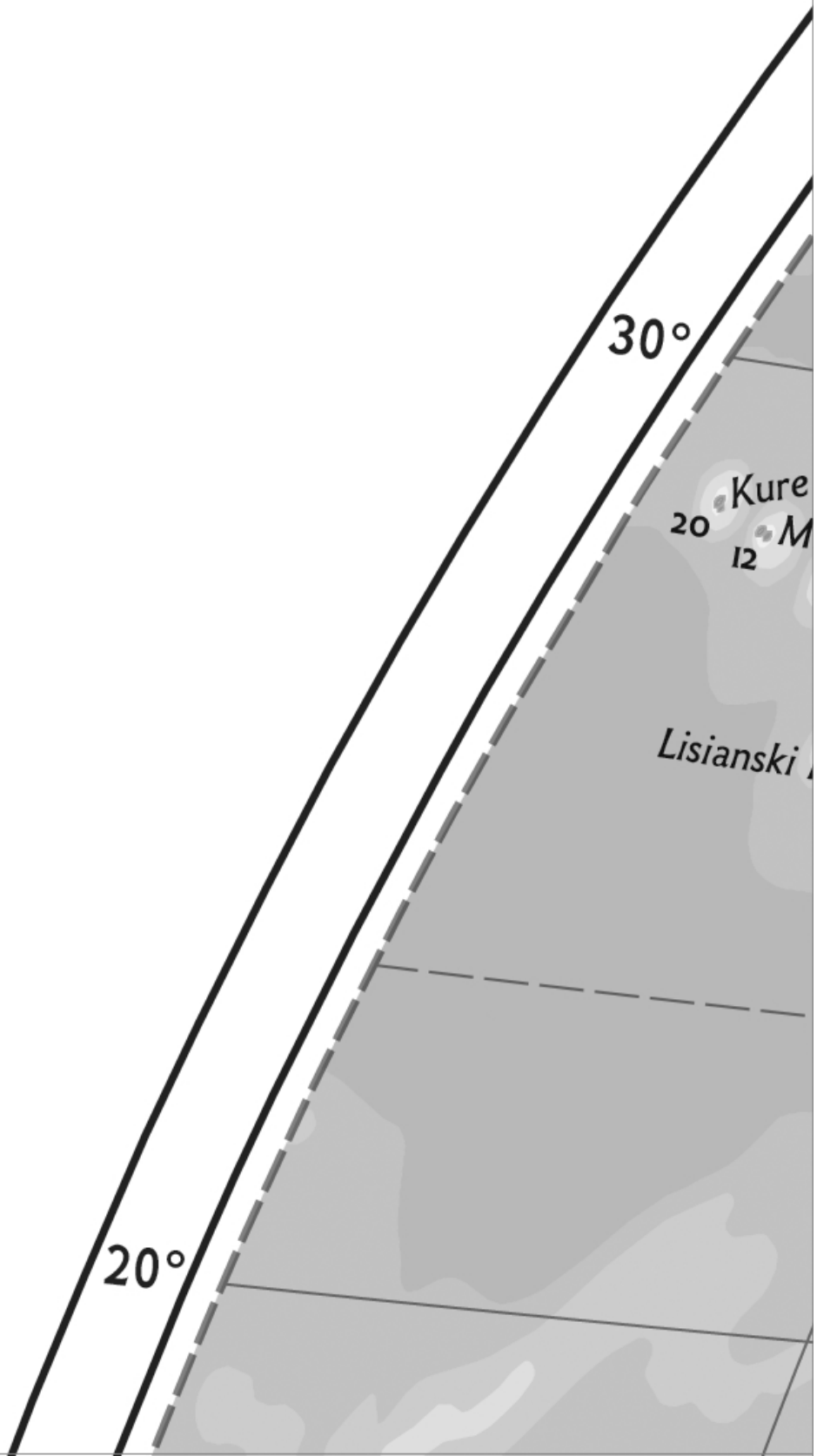
40°

H^s

e

m





Atoll
Midway Islands
Pearl and Hermes Atoll

HAWAIIAN ISLANDS
United States

20
35 Laysan I.

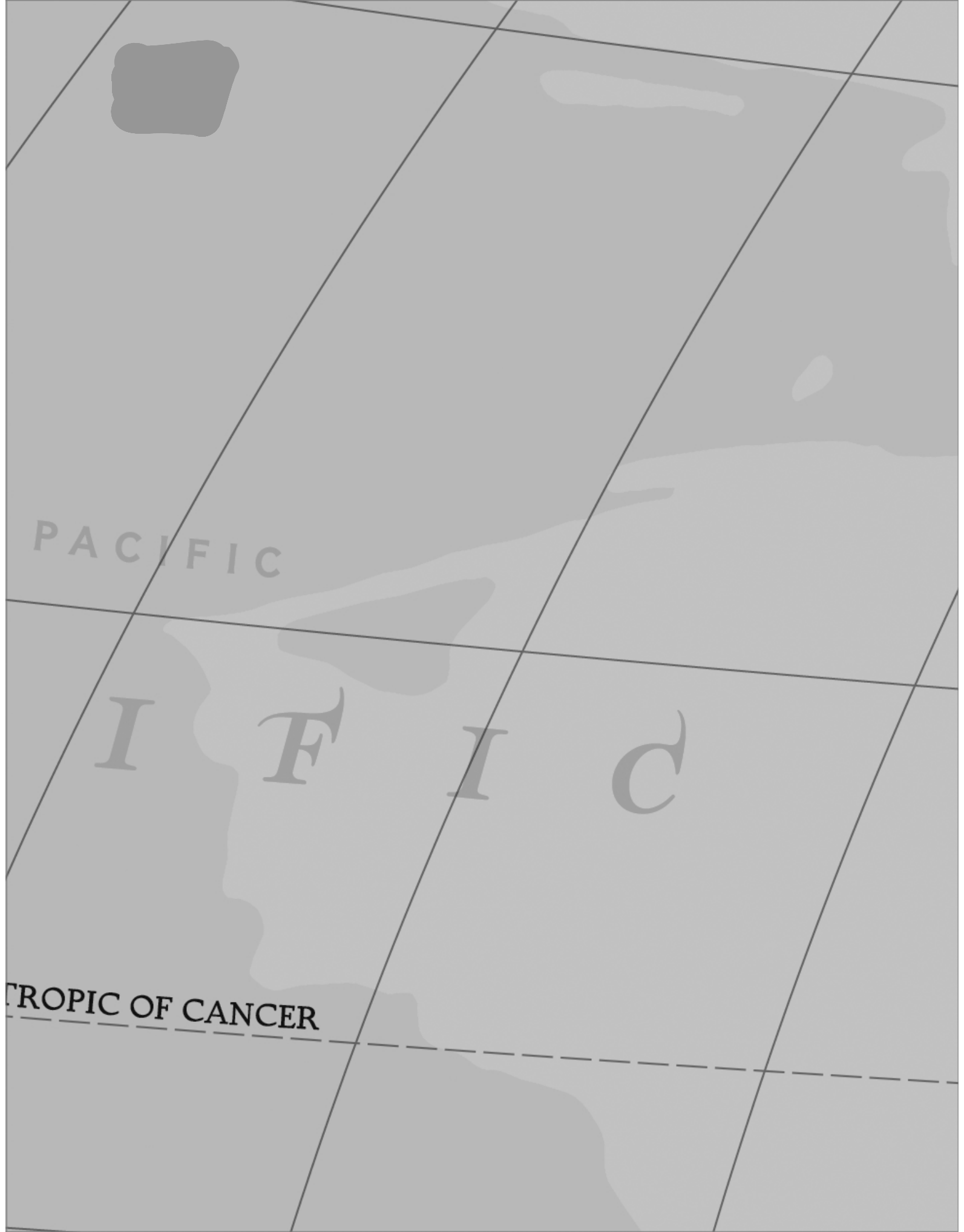
190 Gardner Pinnacles

122 La Perouse Pinnacle
277 Necker I.

Nihoa 910

1281 Ni'ihau
550 Ka'ula
Kaua'i 5243
O'ahu 4046

Honolulu
3370 Lāna'i
1476 Kaho'olawe
13796 Maui 10023
Mauna Kea
Hilo



PACIFIC

INDIAN

TROPIC OF CANCER



UNI

CALIFORNIA
 Sacramento
 Oakland
 San Francisco
 San Jose
 Fresno
 Bakersfield
 Santa Barbara
 Los Angeles
 Long Beach
 San Diego
 Tijuana
 Ensenada

NEVADA
 Reno
 Carson City
 Ely
 Las Vegas
 Flagstaff

ARIZONA
 Phoenix
 Tucson
 Ciudad Juárez

MEXICO
 Hermosillo
 Chihuahua
 Delicias
 Torreon
 Durango
 Mazatlán
 La Paz
 Culiacán
 Los Mochis
 La Purísima
 Magdalena I. Mexico
 Cedros I.
 Eugenia Point
 False Cape
 Mariás Islands

UTAH
 Salt Lake City

Other Labels:
 Klamath Falls
 Alturas
 Lassen Peak
 Mt. Shasta 14162
 10457
 Mt. Whitney 14494
 10154
 10400
 Sierra Nevada
 Sierra Madre Occidental
 Gulf of California
 Baja California



T E D S T A T E S

COLORADO

NEBRASKA

IOWA

Chicago

Denver

Kansas

St. Louis

OKLAHOMA

MISSOURI

NEW MEXICO

Oklahoma City

Little Rock

TENNESSEE

Fort Worth

Dallas

MISS.

ALA.

GEOR.

TEXAS

LA.

Baton Rouge

Montgom.

San Antonio

Houston

New Orleans

Orlando

St. Petersburg

Ft. Lauderdale

Miami

Monterrey

GULF OF MEXICO

Havana

Pinar del Río

San José

Tampico

Chichén Itzá

Key West

Straits of Florida



Toronto
Hamilton
Lansing
Buffalo
Rochester
N.Y.
Albany

Detroit
Cleveland
Columbus PA.
Pittsburgh
Harrisburg
Hartford
Providence, R.I.
Boston, MASS.
Montpelier, VT.
Concord, N.H.

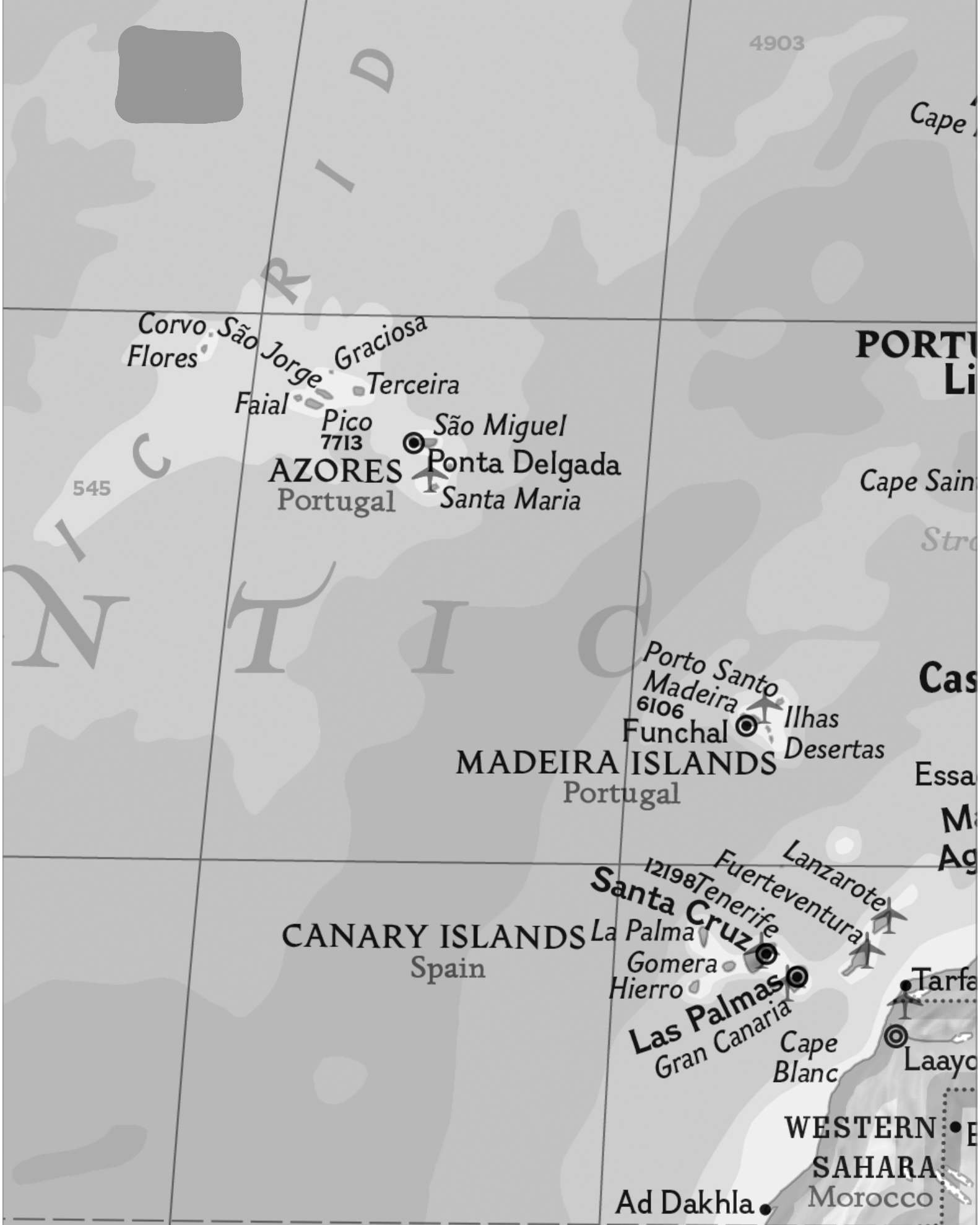
New York
Philadelphia
Washington, D.C.
Trenton, N.J.
Dover, DEL.
Annapolis, MD.
Richmond
Norfolk

VA.
N.C.
Raleigh
Greensboro
Wilmington
Columbia
Charleston

GA.
Savannah
Jacksonville

FLORIDA
Cape Canaveral
Orlando
West Palm Beach
Grand Bahama I.
Great Abaco I.
Nassau
Eleuthera I.
BAHAMAS
San Salvador (Watling)
Long I.
Samana Cay
Cuba

BERMUDA U.K.
NORTH AMERICA
5165
AND CAICOS IS. U.K.
FRENCH



R I D

4903

Cape

Corvo Flores
São Jorge Graciosa

PORTU
Li

Faial Pico 7713
AZORES Portugal
São Miguel
Ponta Delgada
Santa Maria

545

Cape Sain

Stro

N T I O

Porto Santo
Madeira 6106
Funchal
Ilhas Desertas

MADEIRA ISLANDS
Portugal

Cas

Essa

M

Ag

CANARY ISLANDS
Spain

12198 Santa Cruz
Fuerteventura
Lanzarote
Tenerife
La Palma
Gomera
Hierro
Las Palmas
Gran Canaria

Cape Blanc

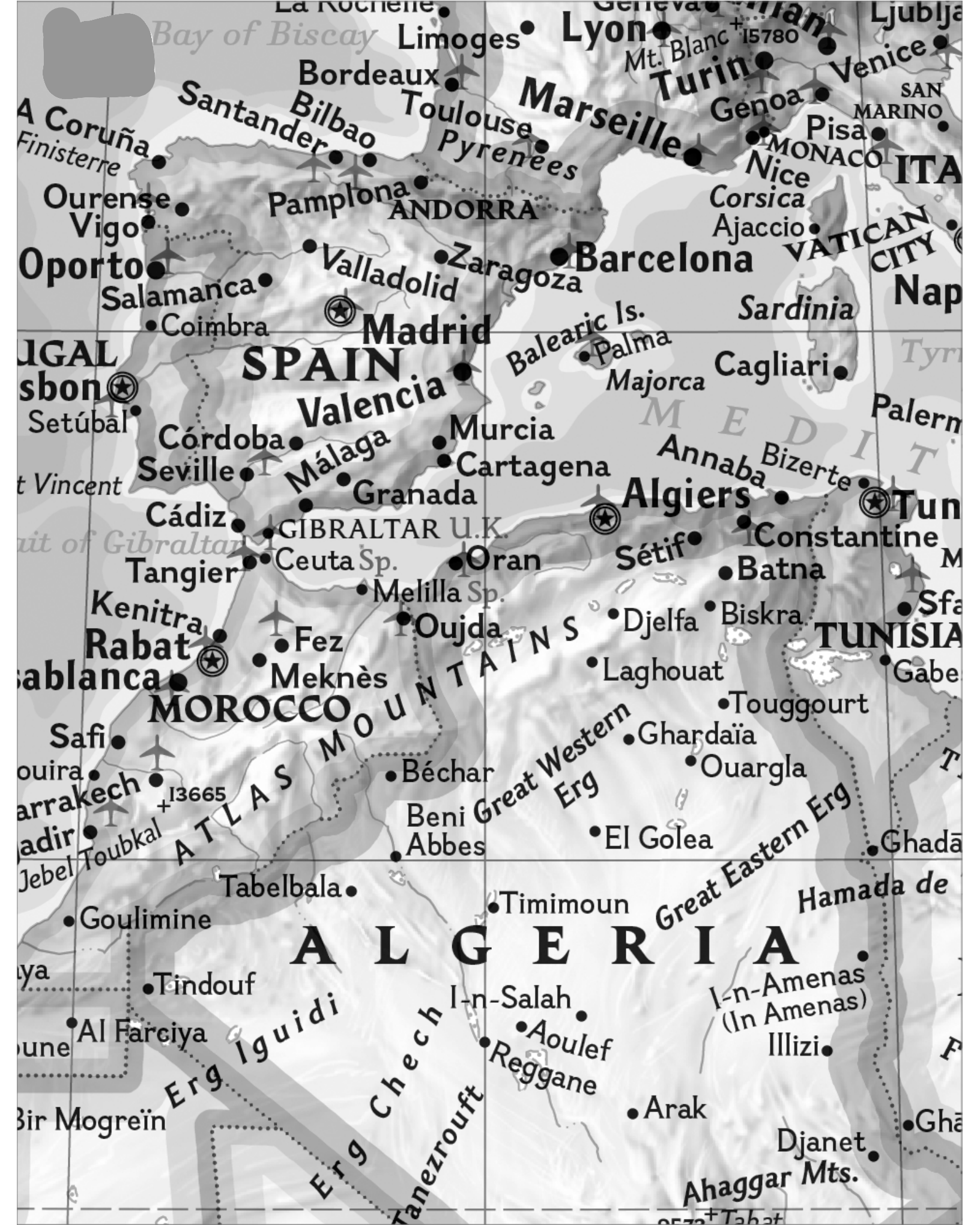
Tarfa

Laayo

WESTERN SAHARA
Morocco

Ad Dakhla

5638



Bay of Biscay

Marseille

SPAIN

MEDITERRANEAN SEA

MOROCCO

ALGERIA

TUNISIA

Erg Iguidi

Great Western Erg

Great Eastern Erg

A Coruña

Ourense

Vigo

Oporto

Galicia

Setúbal

St Vincent

Seville

Cádiz

Tangier

Rabat

Meknes

Safi

Marrakech

Agadir

Toubkal

Jebel

Goulimine

Tindouf

Al Farciya

Bir Mogreïn

Erg Chech

Tanezrouft

Hamada de

Ahaggar Mts.

Tabat

0572

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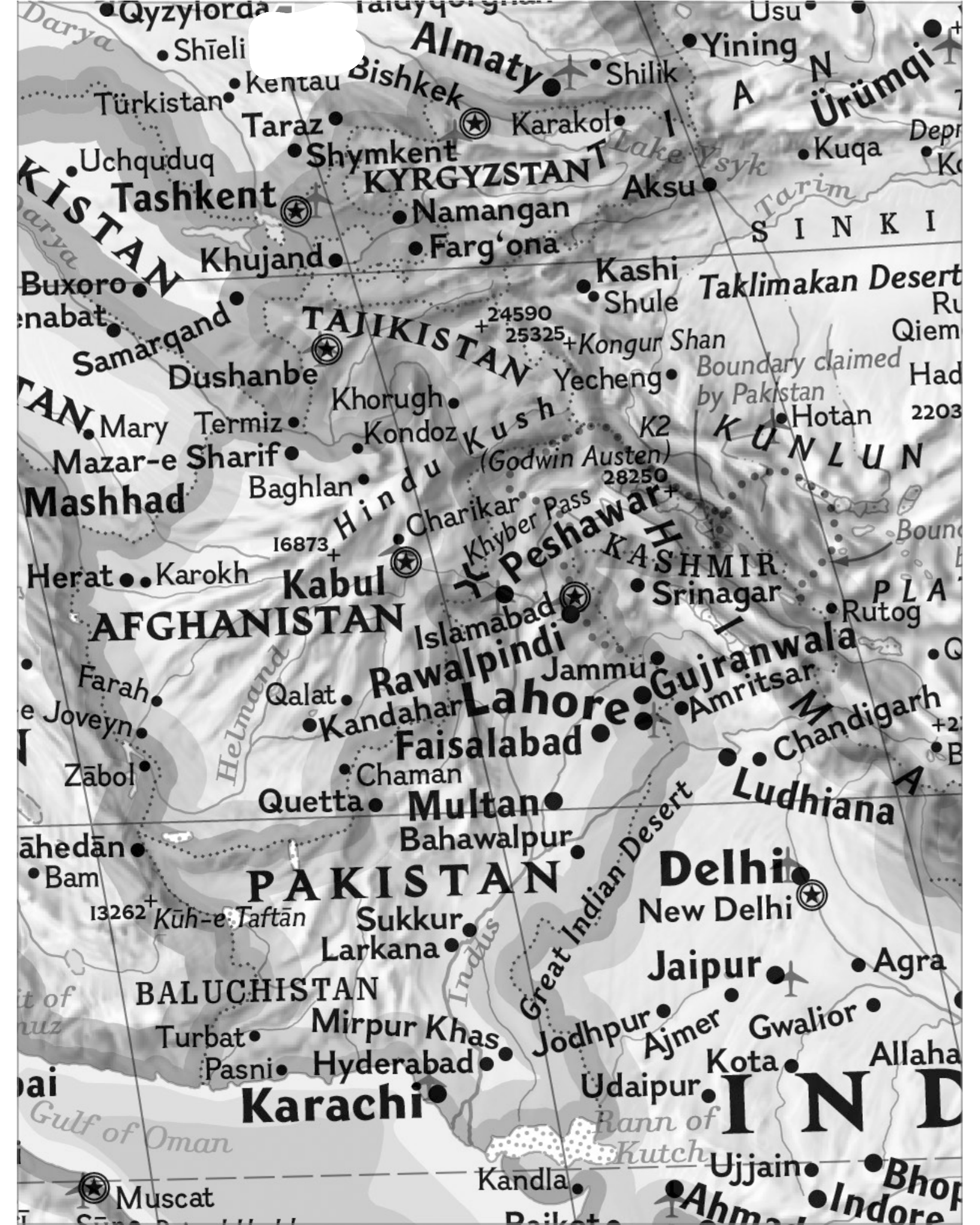
0572

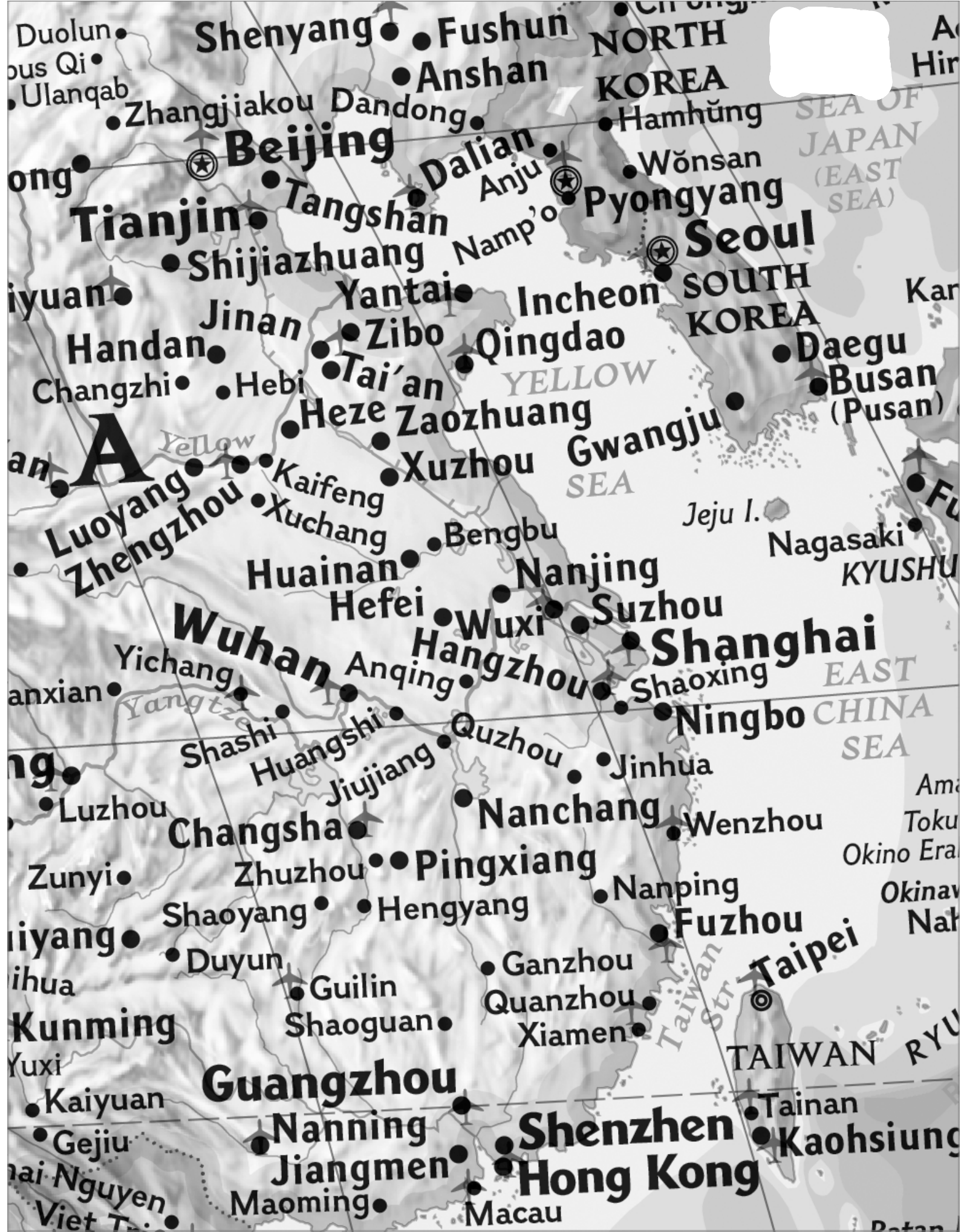




STATUS OF PALESTINE

In November 2012 the UN General Assembly voted to elevate the diplomatic status of the "Palestinian territories to that of a "nonmember observer state." The creation of a formal Palestinian state remains subject to Israeli-Palestinian negotiations.





Duolun
ous Qi
Ulanqab

ong
Tianjin

iyuan
Handan

an
Luoyang

ng
Luzhou

iyang
ihua

Yuxi
Kunming

Kaiyuan
Gejiu

ai Nguyen
Viet T

Shenyang
Fushun
Anshan

Beijing
Dalian
Tangshan

Shijiazhuang
Jinan
Yantai

Heze
Zaozhuang
Xuzhou

Huainan
Hefei
Wuxi

Wuhan
Hangzhou
Nanchang

Changsha
Pingxiang
Hengyang

Shaoyang
Duyun
Guilin

Guangzhou
Nanning
Jiangmen

Maoming
Shenzhen
Hong Kong

NORTH KOREA
Hamhung
Wonsan

Pyongyang
Seoul
SOUTH KOREA

Incheon
Daegu
Busan (Pusan)

Yellow Sea
Gwangju
Jeju I.

Nanjing
Suzhou
Shanghai

Hangzhou
Ningbo
East China Sea

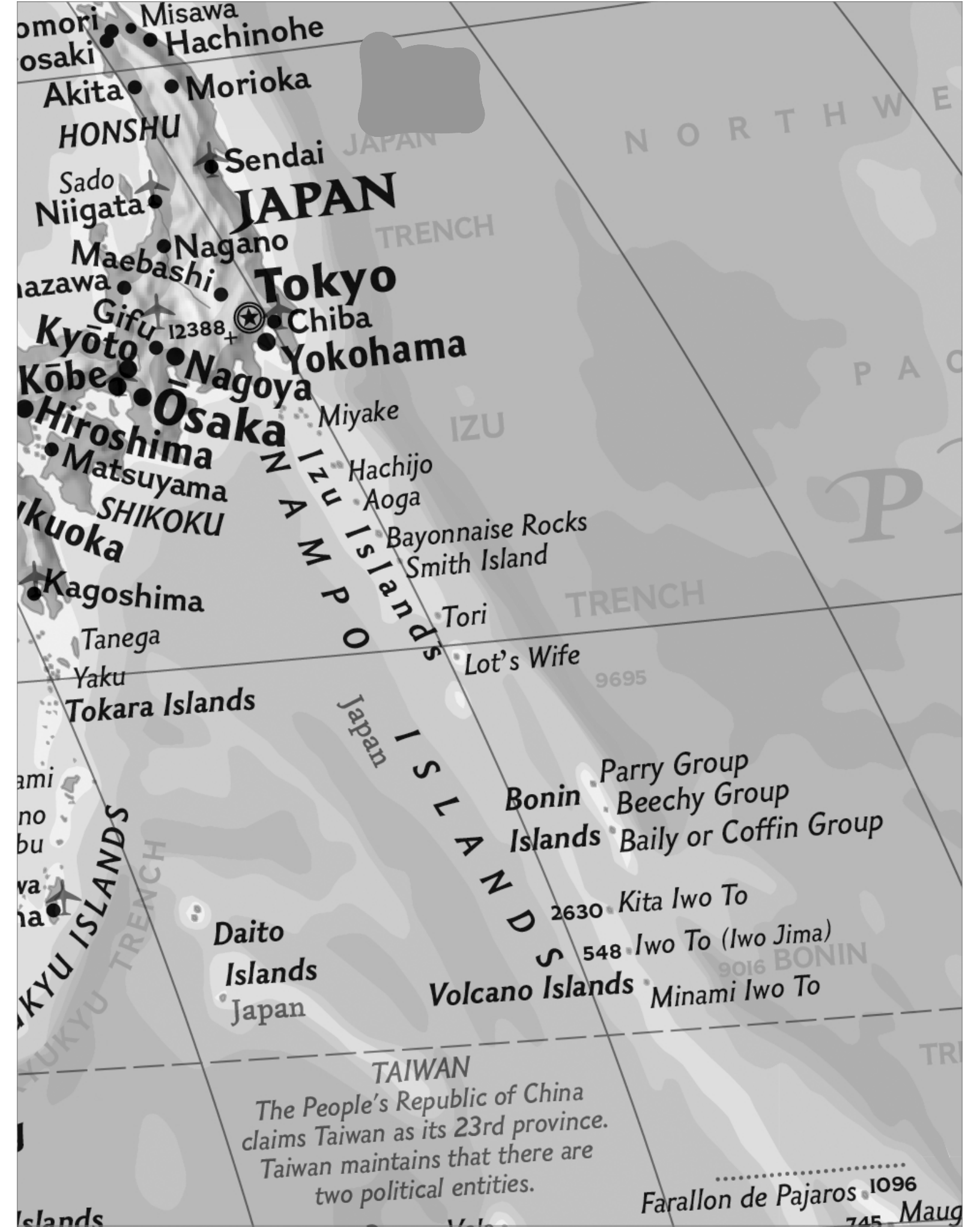
Wenzhou
Fuzhou
Taiwan Strait

Nanping
Ganzhou
Quanzhou

Xiamen
Taipei
TAIWAN

Tainan
Kaohsiung
RYU





Misawa
Hachinohe

Akita
Morioka

HONSHU

Sendai

Sado
Niigata

JAPAN

Maebashi
Nagano

TRENCH

Kyoto
Gifu

Tokyo

Kobe
Osaka
Nagoya
Yokohama

Hiroshima
Matsuyama

Shikoku
Kagoshima

Izu Islands
Miyake
Hachijo
Aoga
Bayonnaise Rocks
Smith Island

IZU

Tanega
Yaku
Tokara Islands

Tori
Lot's Wife

TRENCH

Kyukyu Islands

Daito
Islands
Japan

Japan

Bonin Islands
Parry Group
Beechy Group
Baily or Coffin Group
Volcano Islands
Kita Iwo To
Iwo To (Iwo Jima)
Minami Iwo To

2630

548

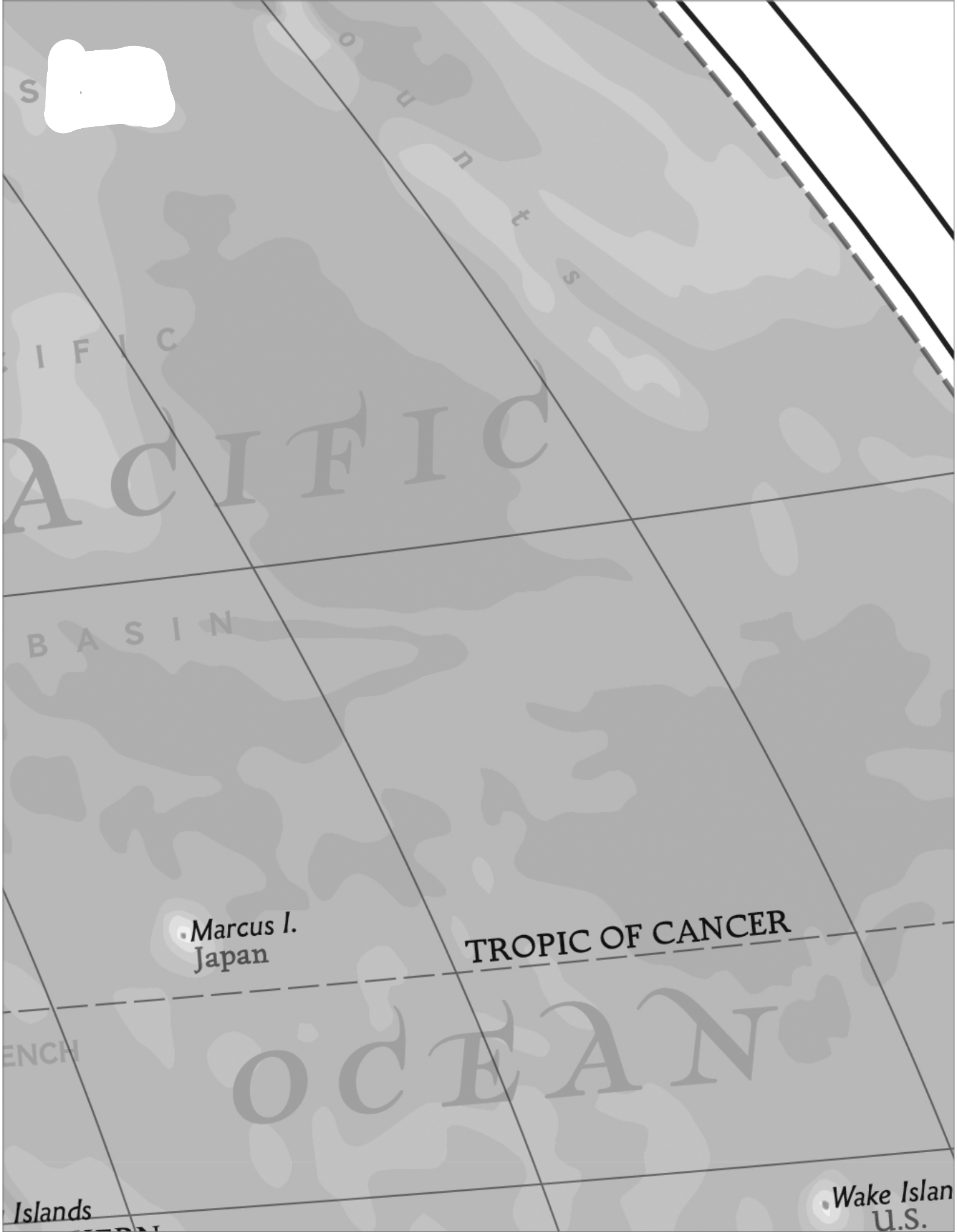
9016 BONIN

9695

TAIWAN

The People's Republic of China
claims Taiwan as its 23rd province.
Taiwan maintains that there are
two political entities.

Farallon de Pajaros 1096
745 Maug



TROPIC OF CANCER

• Marcus I.
Japan

• Wake Island
U.S.

Islands

ENCH

PACIFIC

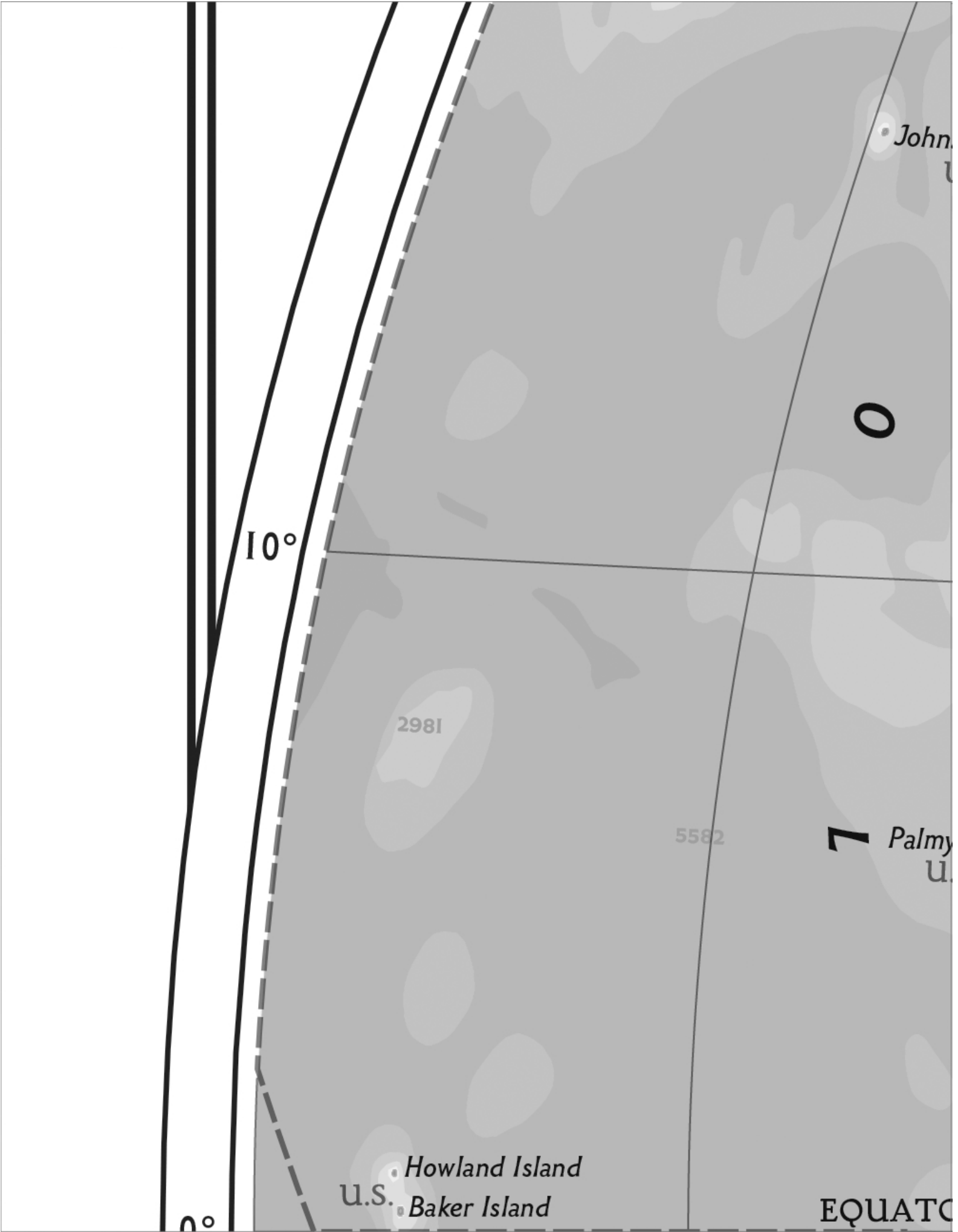
BASIN

S

OUNTAINS

OCEAN





13679 Mauna Loa
Hawai'i

ston Atoll
U.S.

B A

O C E A

Kingman Reef U.S.

ra Atoll
U.S.



4170

DR



SIN

N

4610



Revillagigedo Islands

Mexico

Clarión I.

Roca Partida I.

Socorro I.

3707

San Benedicto I.

Guadalajara

Ciudad Guzmán

Morelia

Mexico

Acapulco

Omet

Point Mald

Pu

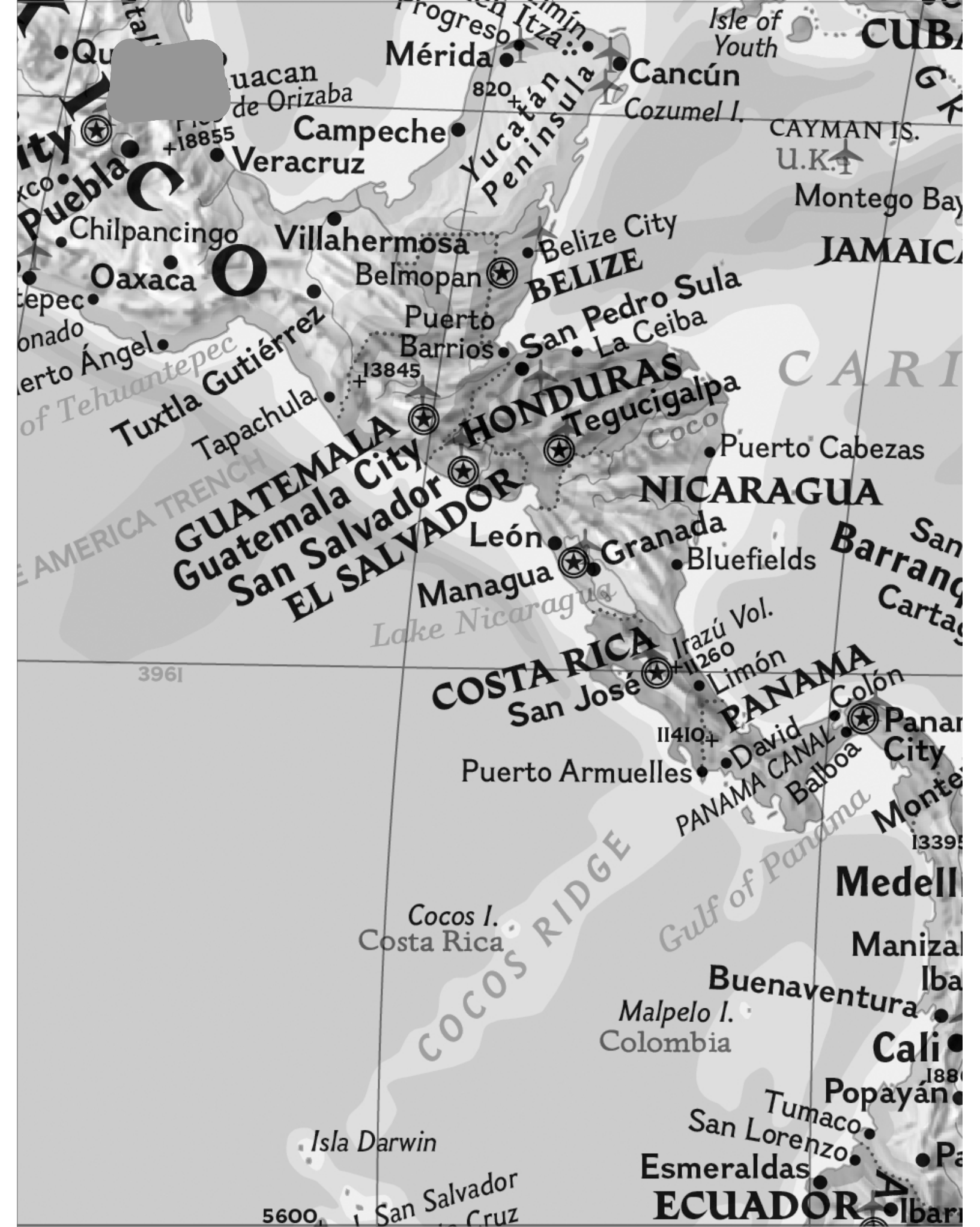
Gulf

Clipperton

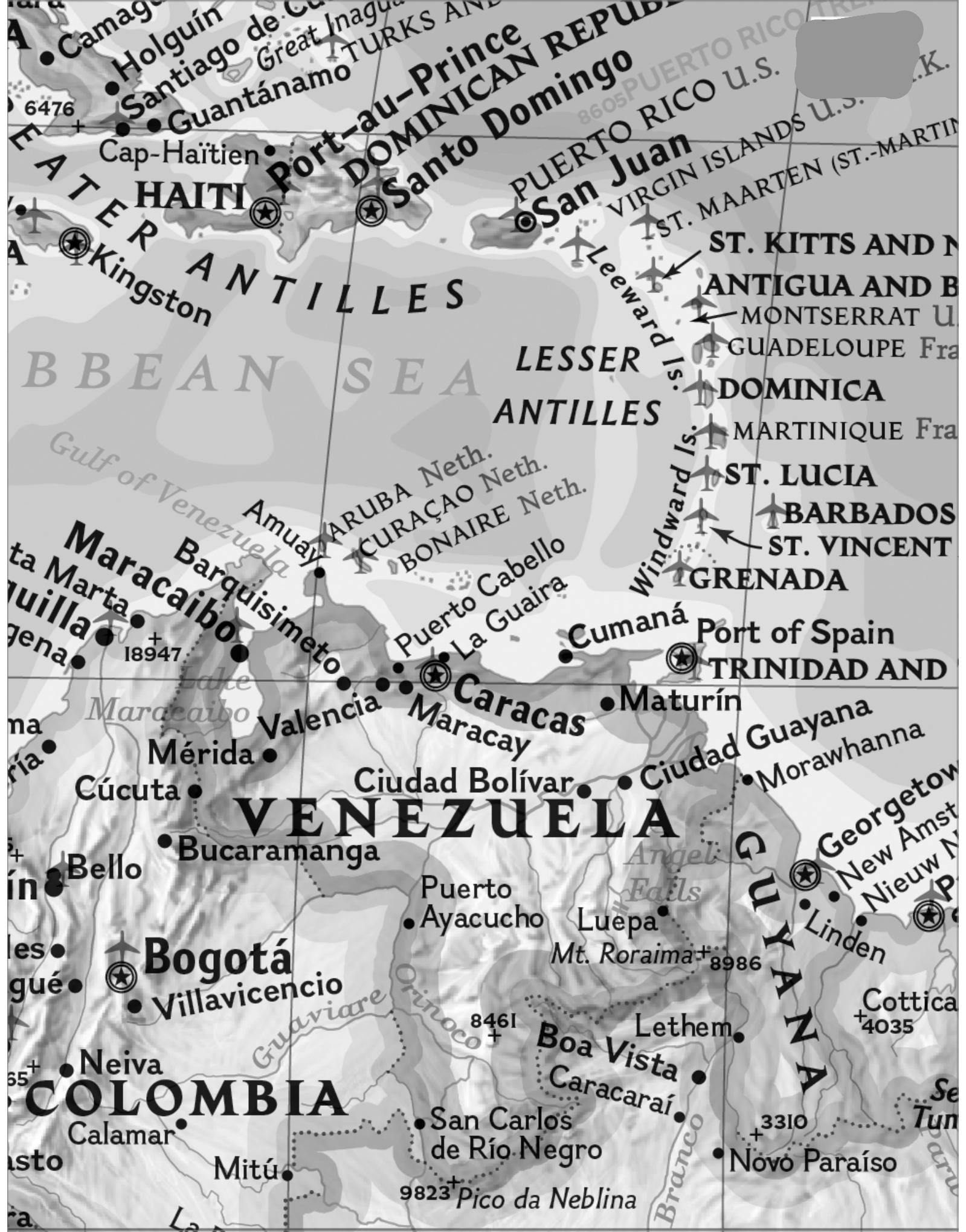
France

6661 MIDDLE

E



Yucatan Peninsula
Merida
Campeche
Veracruz
Oaxaca
Tuxtla Gutierrez
Tapachula
Guatemala City
San Salvador
El Salvador
Honduras
Tegucigalpa
Nicaragua
Managua
Leon
Granada
Bluefields
Costa Rica
San Jose
Limon
Panama
Panama City
Colon
Balboa
Panama Canal
Gulf of Panama
Cocos Ridge
Cocos I.
Isla Darwin
Cuba
Cancun
Cozumel I.
Montego Bay
Jamaica
Barranquilla
Cartagena
Medellin
Manizales
Buenaventura
Cali
Popayan
Esmeraldas
Ecuador
Ibarra



Camaguey
Holguín
Santiago de Cuba
Guantánamo
Cap-Haïtien
Kingston

GREATER ANTILLES
HAITI
Port-au-Prince
DOMINICAN REPUBLIC
Santo Domingo
PUERTO RICO U.S.
San Juan
VIRGIN ISLANDS U.S.
ST. MAARTEN (ST.-MARTIN)

LESSLER ANTILLES
ARUBA Neth.
CURAÇAO Neth.
BONAIRE Neth.
Amuay
Puerto Cabello
La Guaira
Cumaná
Port of Spain
TRINIDAD AND TOBAGO
ST. KITTS AND NEVIS
ANTIGUA AND BARBUDA
MONTSERRAT U.K.
GUADELOUPE Fra
DOMINICA
MARTINIQUE Fra
ST. LUCIA
BARBADOS
ST. VINCENT AND THE GRENADINES
GRENADA

VENEZUELA
Maracaibo
Barquisimeto
Valencia
Caracas
Maturín
Ciudad Bolívar
Ciudad Guayana
Morawhanna
Maracaibo
Mérida
Cúcuta
Bucaramanga
Bello
Bogotá
Villavicencio

COLOMBIA
Neiva
Calamar
Mitú
Pico da Neblina
Boa Vista
Caracarái
Lethem
Novo Paraíso

GUAYANA FRANCESA
Georgetown
New Amst
Nieuw N
Linden
Cottica
Novo Paraíso

Neth. & France

O I E A

NEVIS
BARBUDA

.K.
nce
nce

M I

AND THE GRENADINES

TOBAGO

in
erdam
ickerie

aramaribo
SURINAME

St.-Laurent du Maroni
Kourou
Cayenne

FRENCH GUIANA France

erra de
ucumaque

Oiapoque
Calçoene
Amapá
C. North
Bailique
Macapá
Marajó

2961



Cap Barbas • Techla • Fdér
Nouadhibou • Lagwira • Atar
South Cape Blanco • Akjoujt
Cape Timiris
Nouamrhar • MAURITANIA

Santo Antão 6493
São Vicente
CAPE VERDE
São Nicolau
Sal
Boa Vista
9281 Fogo
Praia
Maio
Santiago

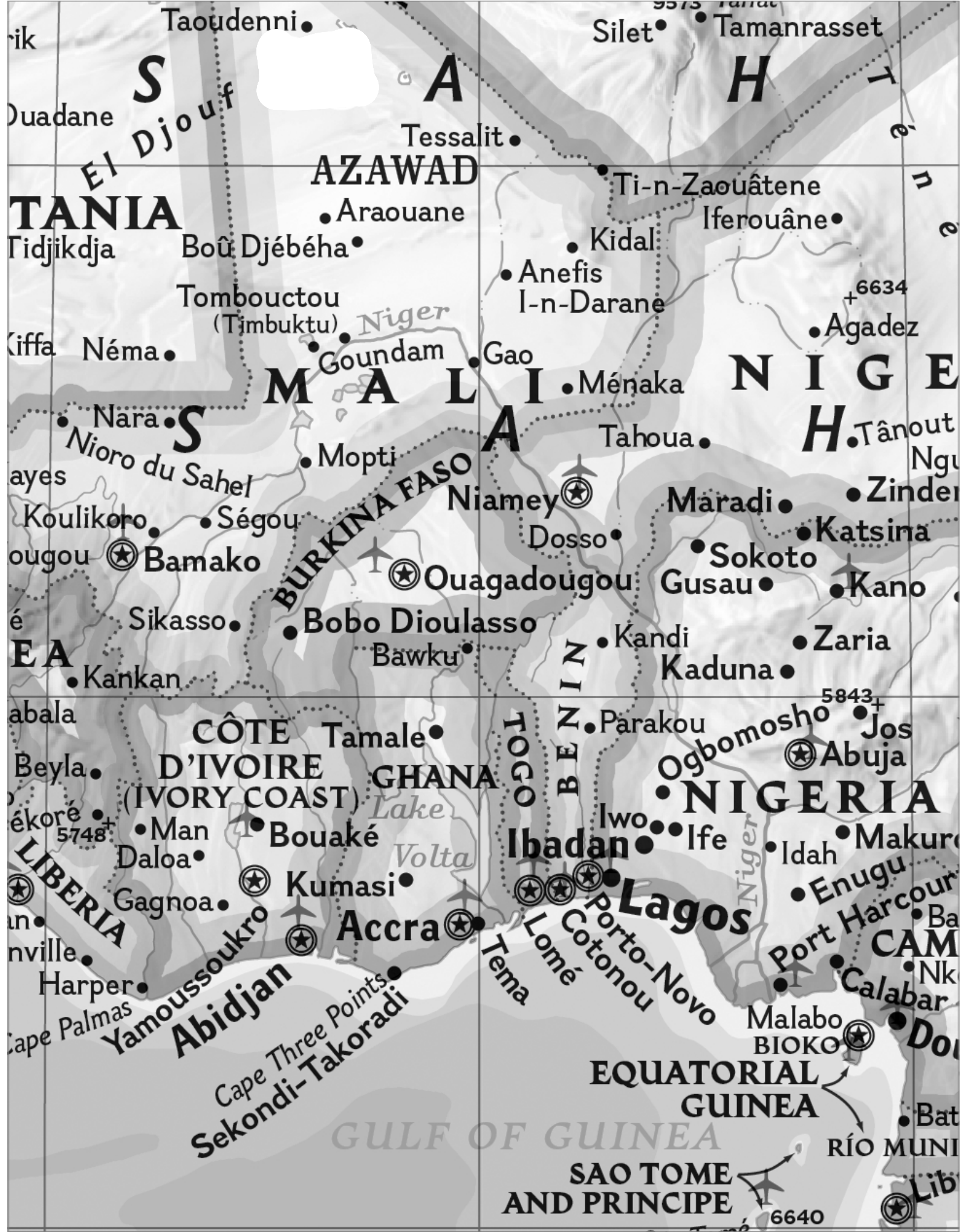
Rosso • St.-Louis • Kaédi
Dakar • SENEGAL
Thiès
Kaolack

GAMBIA • Banjul
Ziguinchor

GUINEA-BISSAU • Bissau
Boké • GUINEA
Kindia

Conakry • SIERRA LEONE
Freetown
Nzéré
RobertSPORT
Monrovia
Buchana
Gree

St. Peter and St. Paul Rocks
Brazil









Sur
Ra's al Hadd
Jazirat Maṣīrah
Ra's al Madrakah
Ra's ash Sharbatāt
Kuria Muria Is.
s Mirbāt

ARABIAN
SEA

da
cotra Yemen
I
n (The Brothers)

CARLSBERG RIDGE

(Trivandrum) Thiruvananthapuram

LAKSHADWEEP
India

(Cochin) Kochi

Ihavandiffulu Atoll
Makunudu Atoll

South Malosmadulu Atoll

Male

Ari Atoll

MALDIVES

Kolumadulu Atoll

Suvadiva Atoll

Maldivian Islands

Porbandar
Rajkot
Vadodara
Surat
Amravati
Jalna
Aurangaba
Sholap
Kalyan
(Bombay) Mumbai
Pune
Hyderabad
Kolhapur
Belgaum
Marmagao
Hubli
Davangere
Shimoga
Tumkur
Mangalore
Mysore
Coimbatore
Dindigul

Gulf of Khambhat

Krishna

Eng. Mulaku



Kolkata
(**Calcutta**)

MYANMAR
(**BURMA**)

Nagpur

Chandrapur

Warangal

Vishakhapatnam

Vijayawada

Bangalore
(**Bengaluru**)

Chennai
(**Madras**)

Puducherry (Pondicherry)

Salem

Tiruchchirappalli

Madurai

Jaffna

Talaimannar

Trincomalee

SRI LANKA

Kandy

Colombo

Sri Jayewardenepura

Galle

Kotte

Sittwe

Nay Pyi Taw

Louangphraba

Sandoway

Pyu

Chiang
Vienti

Hinthada

Bago

Khon

Patheingyi

(**Rangoon**) **Yangon**

Mawlamyine

Phitsanulok

Nakhon Ratcha

Dawei

Bangkok

Sattahip

Myeik

Hua Hin

Isthmus
of Kra

Surat Than

Phuket

Hat

George T

Banda Aceh

Kutanibong

Medan

Simeulue
Pematangsiantar

Sibolga

Nias

Pel

BAY

O F

BENGAL

ANDAMAN
ISLANDS

India

Port Blair

Little Andaman I.

Car Nicobar I.

NICOBAR

ISLANDS

India

Great Nicobar I.

1842

E

G

O

+ 3786

+ 8415

3601

+ 8281

Atoll





NORTHERN
MARIANA
ISLANDS

2441 U.S.
Guguan

Anatahan
Farallon de Medinilla 266

Capital Hill

GUAM
U.S.

MARIANA TRENCH

NORTHEAST TRADE WINDS

Gaferut

Ifalik Atoll
West Fayu

Satawal
Puluwat Atoll
Pulusuk

Chuuk (Truk Is.)
Mortlock Is.

Namonuito Atoll
Hall Is.

Pulap Atoll

Losap Atoll

Ngatik Atoll

Oroluk Atoll

Senyavin Is.
Palikir

Pohnpei (Ponape)

Mokil Atoll
Pingelap Atoll
Kosrae

Enewetak Atoll

Ujelang Atoll

Rongelap Atoll
Wotho Atoll

Kwajalein

Ailing

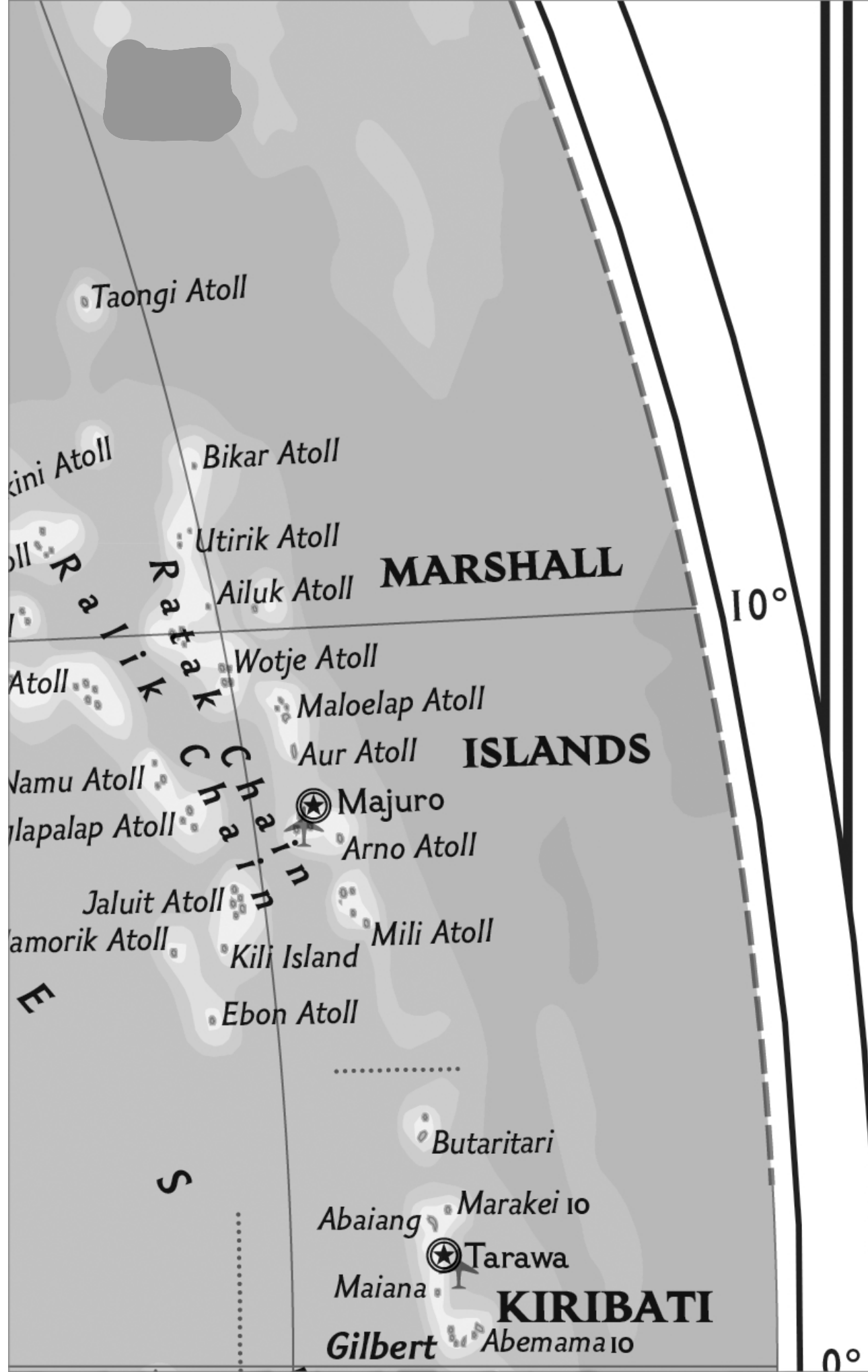
UNITED STATES OF MICRONESIA

Nukuoro Atoll

LINE ISLANDS

Kapingamarangi Atoll

EQUATOR



Taongi Atoll

ini Atoll

Bikar Atoll

Utirik Atoll

Ailuk Atoll

MARSHALL

10°

Atoll

Wotje Atoll

Maloelap Atoll

Aur Atoll

ISLANDS

Namu Atoll

Majuro

lapalap Atoll

Arno Atoll

Jaluit Atoll

Kili Island

Mili Atoll

amorik Atoll

Ebon Atoll

Butaritari

Abaiang

Marakei 10

Tarawa

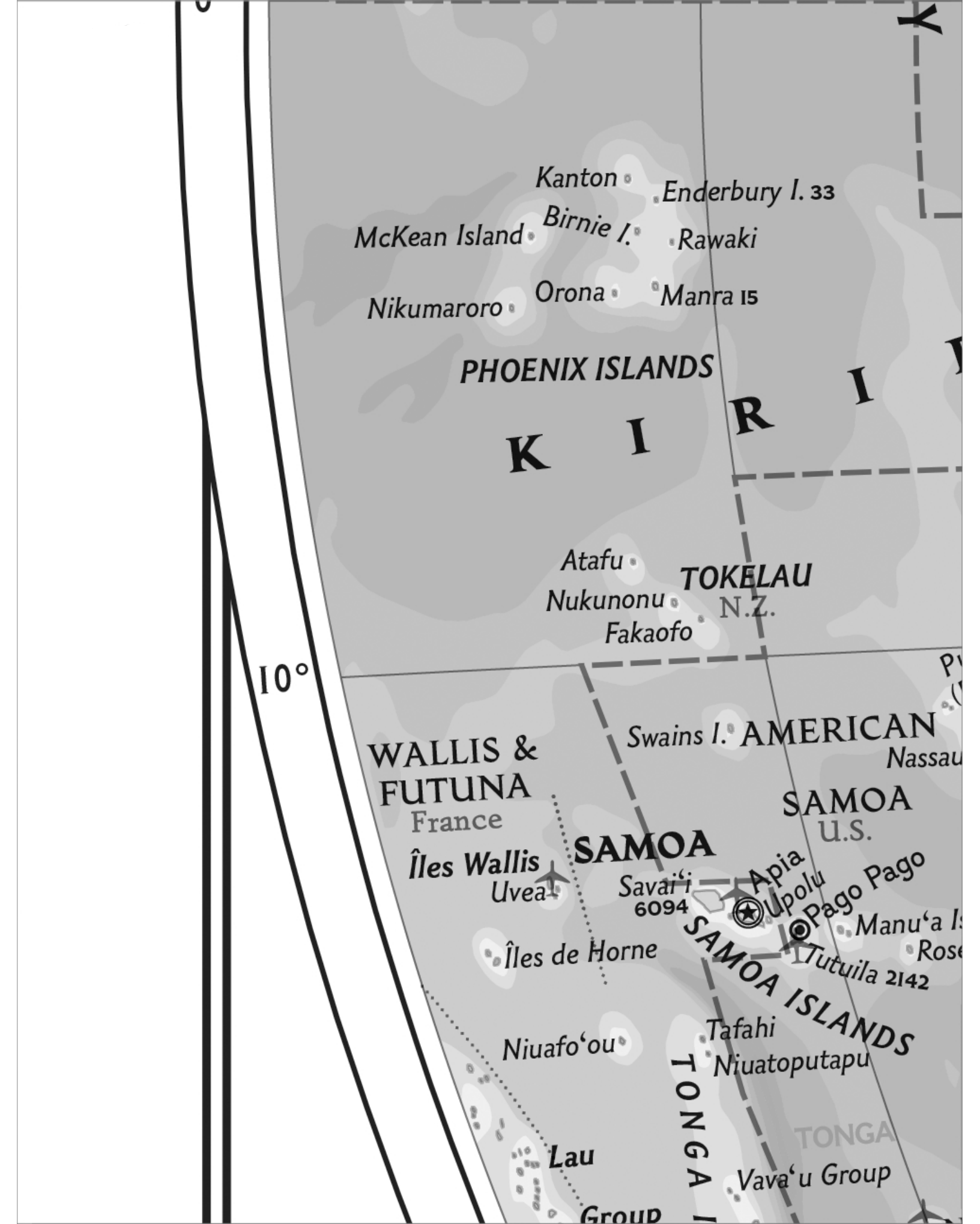
Maiana

KIRIBATI

Gilbert

Abemama 10

0°



Kanton • Enderbury I. 33
McKean Island • Birnie I. • Rawaki
Nikumaroro • Orona • Manra 15

PHOENIX ISLANDS

K I R I B A T I

Atafu • **TOKELAU**
Nukunonu • N.Z.
Fakafo

10°

WALLIS & FUTUNA
France

Îles Wallis
Uvea

Îles de Horne

Niuafou'ou

Lau

Swains I. **AMERICAN**
Nassau

SAMOA
U.S.

SAMOA

Savai'i
6094

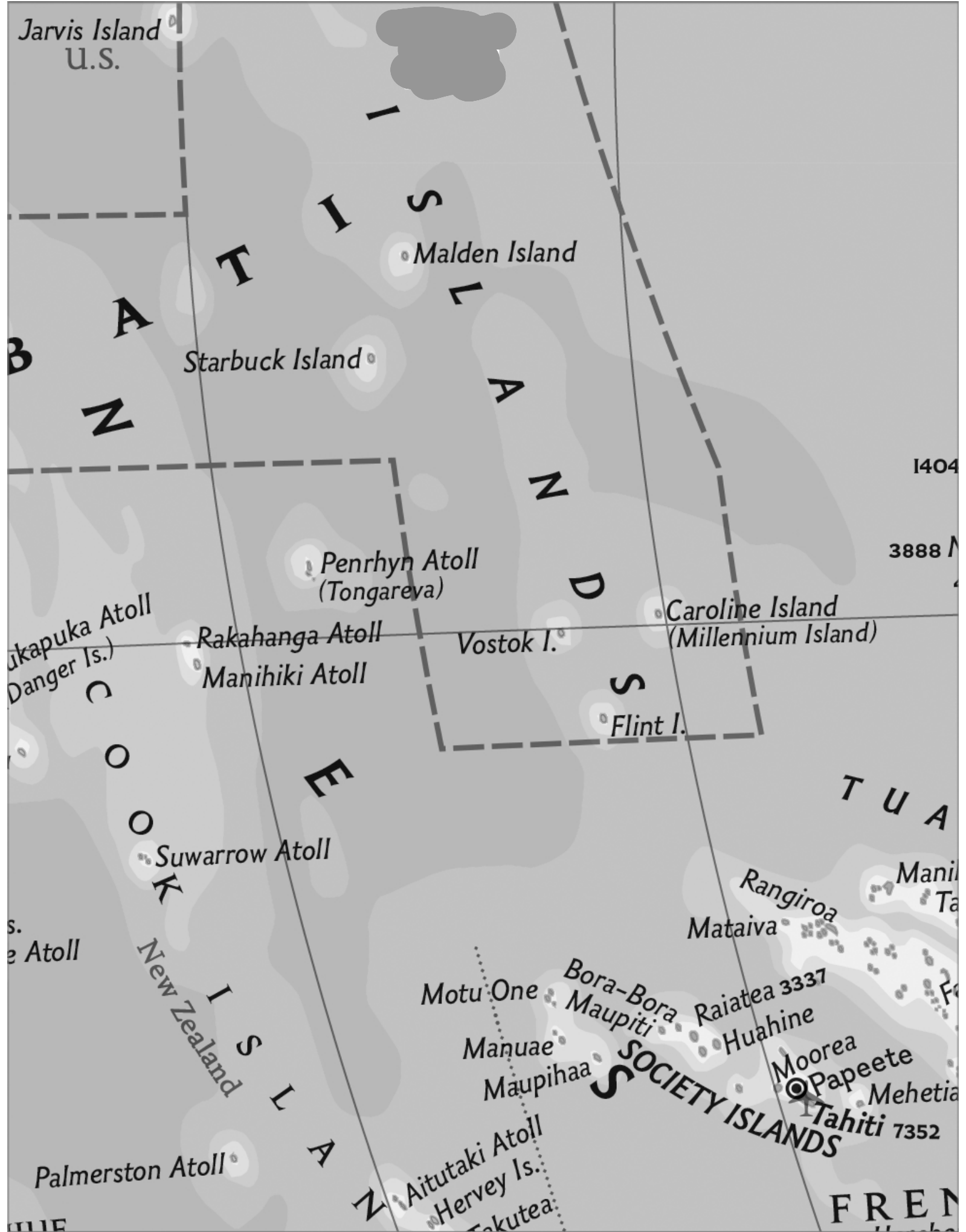
Apia
Upolu
Pago Pago

SAMOA ISLANDS
Manu'a I.
Rose
Tutuila 2142

Tafahi
Niuatoputapu

TONGA I

TONGA
Vava'u Group



Hatutu 4527
Eiao
MARQUESAS ISLANDS France

Nuku Hiva Ua Huka
4042 Ua Pu Hiva Oa 3904
3280 Tahuata Mohotani (Motane)
Fatu Hiva 3150

M O T U
hi Napuka
karoa Pukapuka
Tikei
karava Makemo Fangatau
Raroia
Anaa Tatakoto Amanu
Reitoru Hao Reao
Nengonengo
ARCHIPELAG
CH POLYNESIA
France



4190

2610

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I. Fernandina

Isla Isabela

I. Santa Cruz

I. San Cristóbal

Puerto Villamil
Puerto Baquerizo Moreno

GALAPAGOS ISLANDS

Ecuador

Manta

Portoviejo

Guayaquil

Machala

Tumbes

Pariñas Point

Talara

Paita

Aguja Point

Chiclayo

Pacasmayo

Trujillo

Salaverry

Chimbote

Huaraz

Huánuco

Cerro de Pasco
Callao

Lima

Huancayo

Qui...

Chimborazo

Riobamba

Cuenca

Loja

Piura

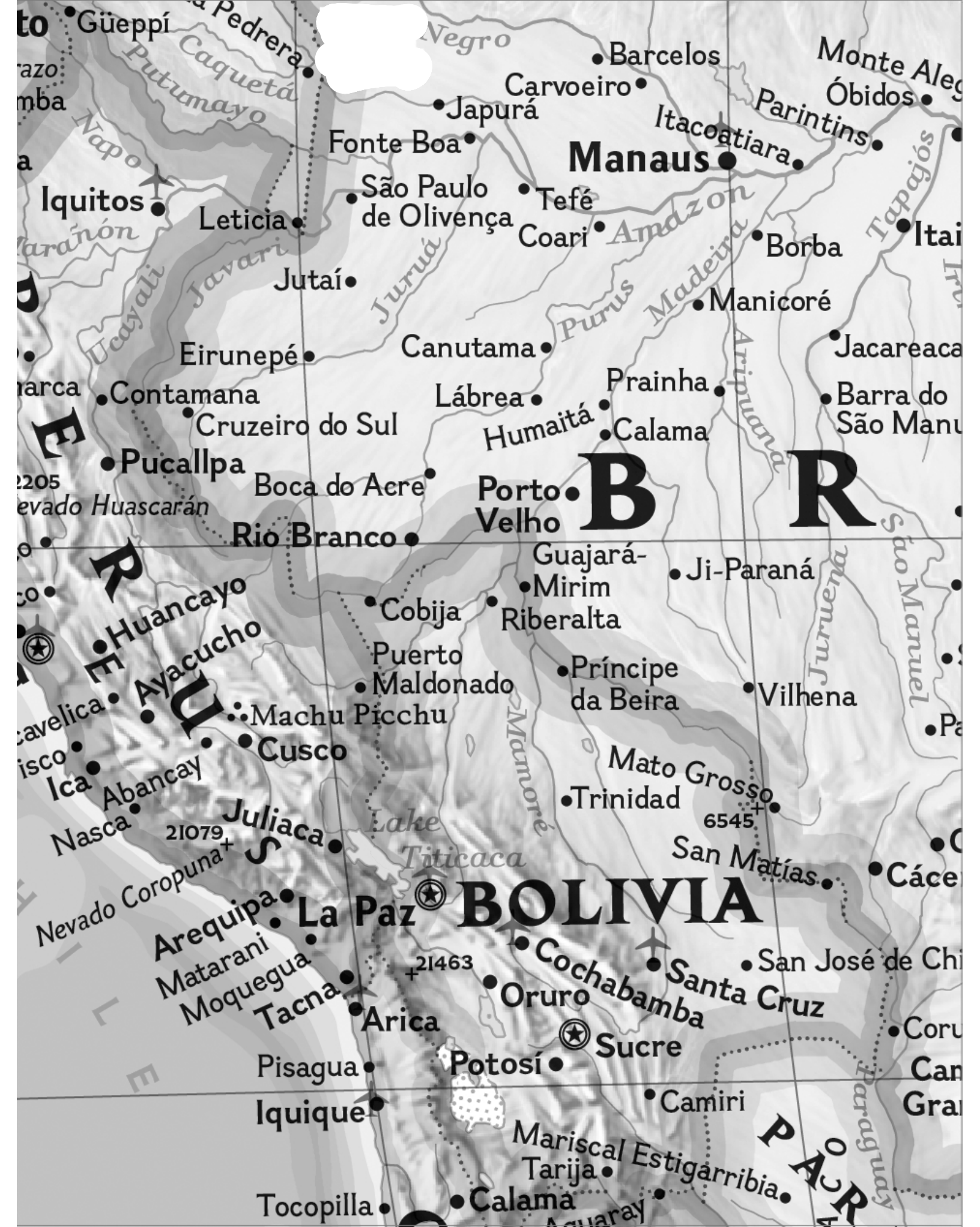
Tarapoto

Cajamarca

P E R U

B A S I N

CA R I D G E







ROMANCHE GAP

7729

das Rocas Brazil

Fernando de Noronha Brazil

canhar

Grande

Pessoa

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ASCENSION 2870
U.K.

M

B R A Z I L

5618

B A S I N

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U

ha de Trindade. Martin Vaz Islands
Brazil

L





BON

DEM. REP.

Mossaka
nceville
Tchibanga
Lake Mai-Ndombe

OF THE
CONGO

Mbarara
Goma
Kigali
BURUNDI
Bujumbura

azzaville
Kinshasa

Kindu
Kasongo

Matadi
Boma
Bembe

Kikwit
Mweka
Kananga
Mbuji-Mayi
Mwene-Ditu

Kigoma
Kalemie
TANZANIA
Lake Tanganyika

Uige
Kahemba

Chitato
Manono

Catete
Dondo
Malanje

Caungula
Kamina
Saurimo
Sandoa
KATANGA

Pweto
Mbal
Lake Mweru

Amboim
Sumbe

Kolwezi
Likasi
Lubumbashi

Kasan
Mansa
Mpika
+6070

obito
guela
8597+

Macondo
Chingola
Kitwe
Luanshya

Ndola
Lilongwe

Kuvango
Lubango
4396+

Zambezi
Mongu
Kabwe

Lusaka
Blantyre
Tete

Humbe
Xangongo

Mussuma
Menongue
Mavinga

Kariba
Livingstone
HARA
Muta

Ondangwa
Dirico

Victoria Falls
Okavango Delta

Gweru
Mutare
Chimoio

fontein
Tsumeb
Grootfontein

Francistown

Bulawayo
Massangena

NAMIBIA
Windhoek
Gobabis

BOTSWANA

Palapye
Thoboyandou



Nairobi
17058
Nakuru
Bura
Kismaayo
Kaambooni
Lamu

Mwanza
Arusha
19340
Moshi
Malindi
Mombasa
Tanga
Pemba I.

Zanzibar
Zanzibar
Dar es Salaam
Morogoro
Mafia I.

Iringa
Mbeya
Kilwa Kivinje
Lindi
Mtwara
Cabo Delgado

Songea
Negomano
Moroni
MAYOTTE
France
Mamoudzou

Marrupa
Lichinga
Nampula
Nacala
Moçambique
Mahajanga

Moma
Quelimane
Chinde
Beira
Antananarivo
8668
Antsirabe

Nova Mambone
Mambone
Bassas da India
Fr.
Île Europa

Manja
Morombe
Fianarantsoa
Manakara
Farafangana

SEYCHELLES
4609
Amirante
Isles
Alphons

Providence I.
Farquhar Gro

Cosmoledo Is.
Glorioso Is.
France
Cap d'Ambre

Antsirañana
Andoany (Hell-Ville)
9436
Massif du Tsaratana

Antalaha
Maroantsetra
Tron

Nosy Ste. Marie
Ambatondrazaka
Toamasina

Port Lo

St.-Denis
RÉUNION
France

St.-Denis
RÉUNION
France

St.-Denis
RÉUNION
France

Seychelles

- Praslin I.
- Mahé I.
- Platte I.
- Coetivy I.

Agalega Is.
Mauritius

France
Cargados
Carajos
Bank
Mauritius

Rodrigues
Mauritius

MAURITIUS

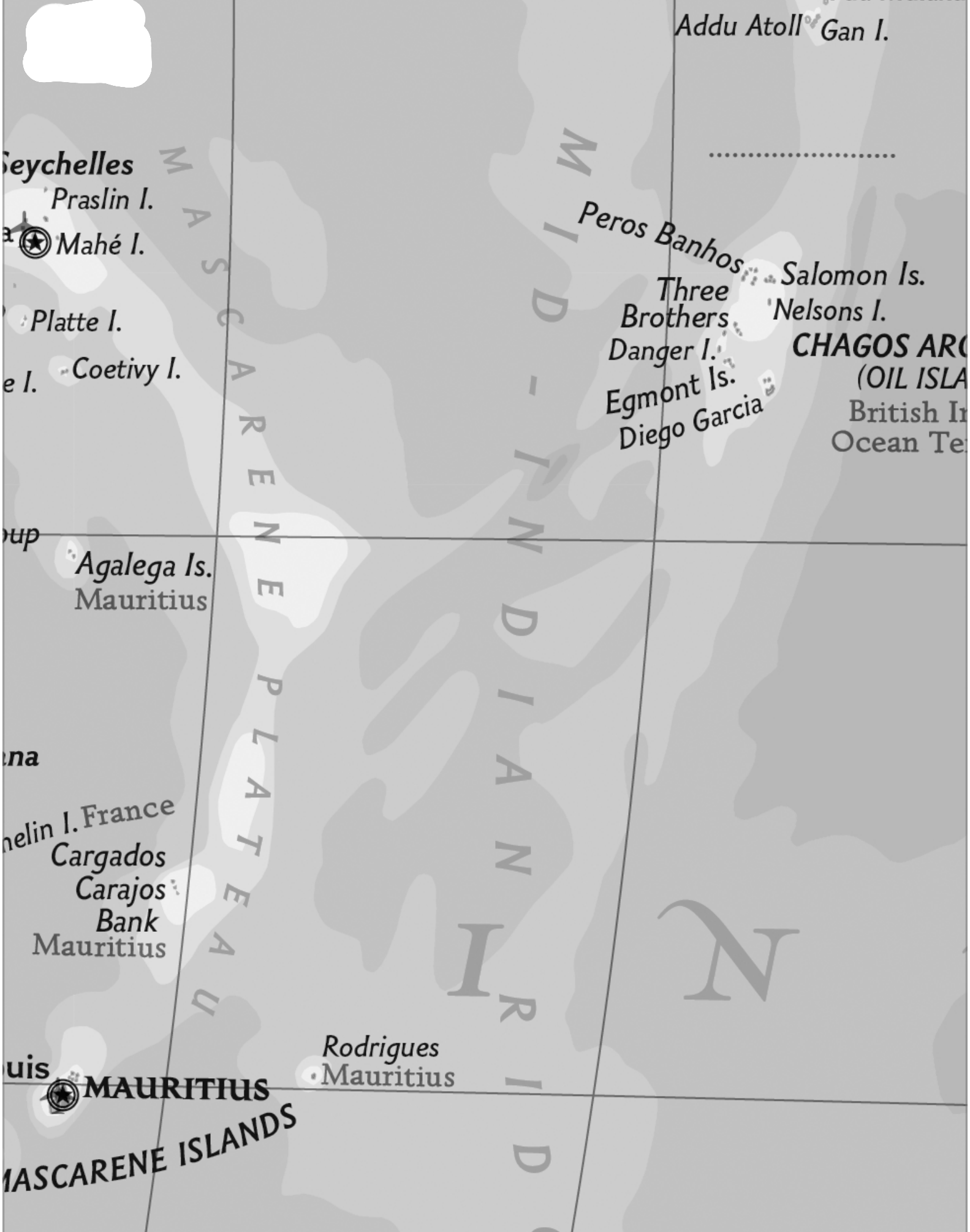
MASCARENE ISLANDS

Addu Atoll
Gan I.

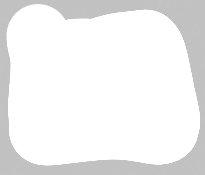
Peros Banhos
Three Brothers
Danger I.
Egmont Is.
Diego Garcia

Salomon Is.
Nelsons I.

CHAGOS ARC
(OIL ISLA
British I
Ocean Te



Atoll



Pacific
Siberut
Mentaw
Islands

4547

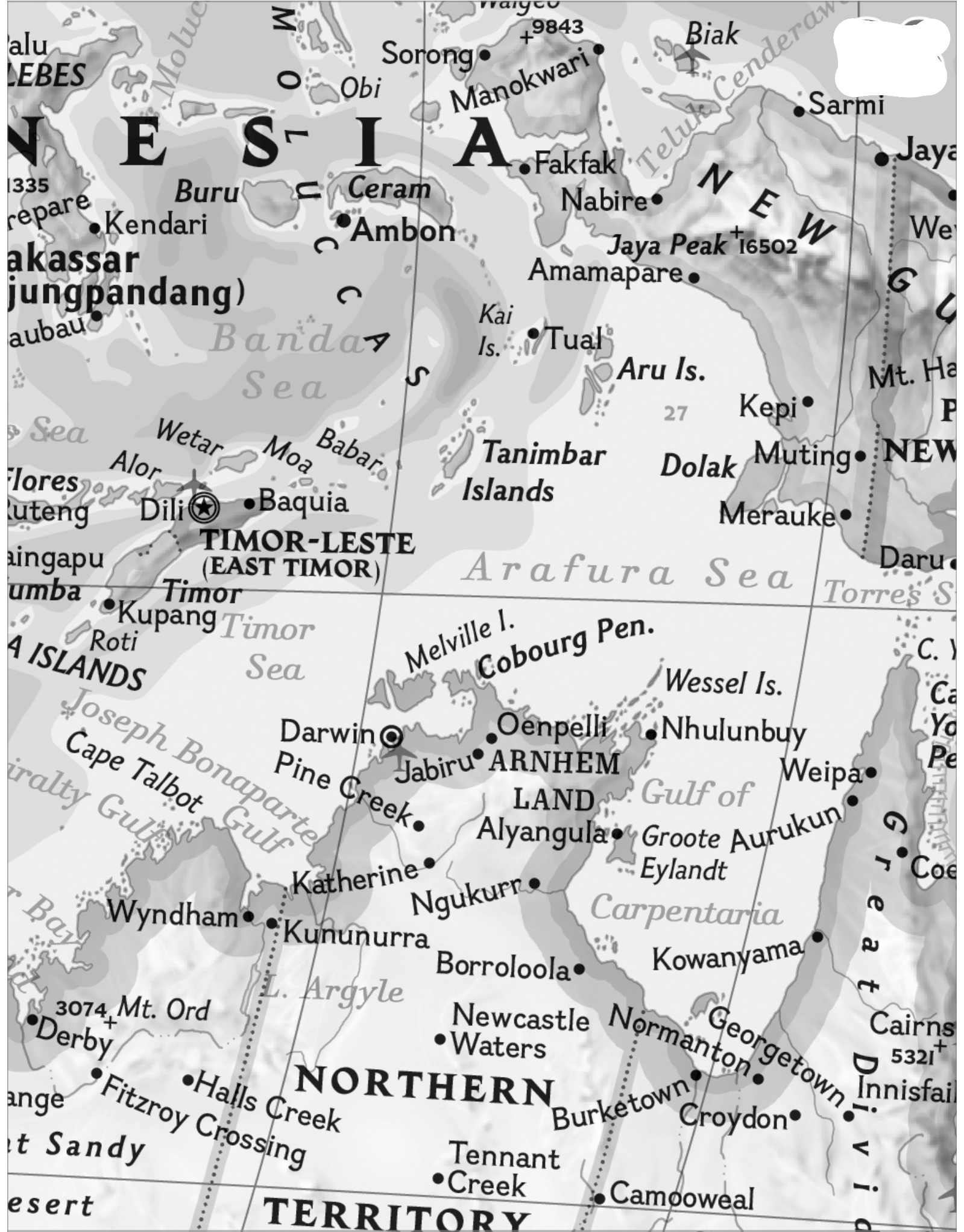
CHIPELAGO
(ISLANDS)
Indian
territory

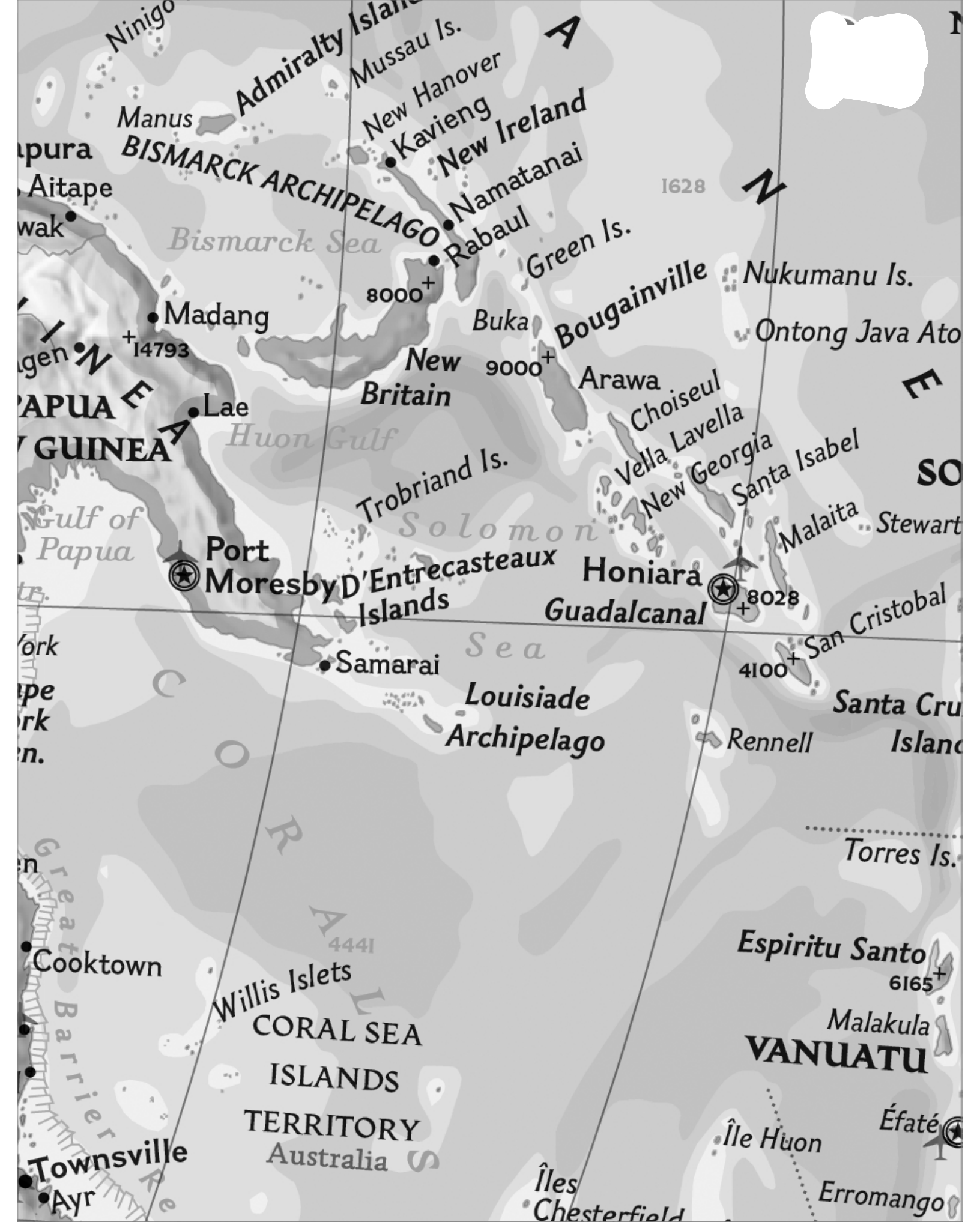
5421

Cocos (Keeling)
Islands

DIETARY EASTERN
INDIAN OCEAN
WHALE
BASIN







NAURU 230

Banaba
(Ocean I.) 265

Nonouti
8 Beru

Tabiteuea

Islands

Tamana

Arorae
15

II

Nanumea

Nanumanga

Niutao

LOMON

TUVALU

Nui
Vaitupu

Nukufetau
Funafuti
Vaiaku

Nukulaelae

ISLANDS

Duff Is.

Nendö
Vanikolo Is.

Niulakita

Anuta (Cherry Island)

Tikopia

Fataka

Rotuma

10°

Banks Is.

Maéwo
Pentecost
Ambrym
Épi

Port Vila

FIJI Labasa
Vanua Levu

Lautoka 4341
Nadi

Viti Levu
Suva

20°

Fiji Vatoa

Ono-i-Lau

ISLANDS

Ha'apai Group

TONGA

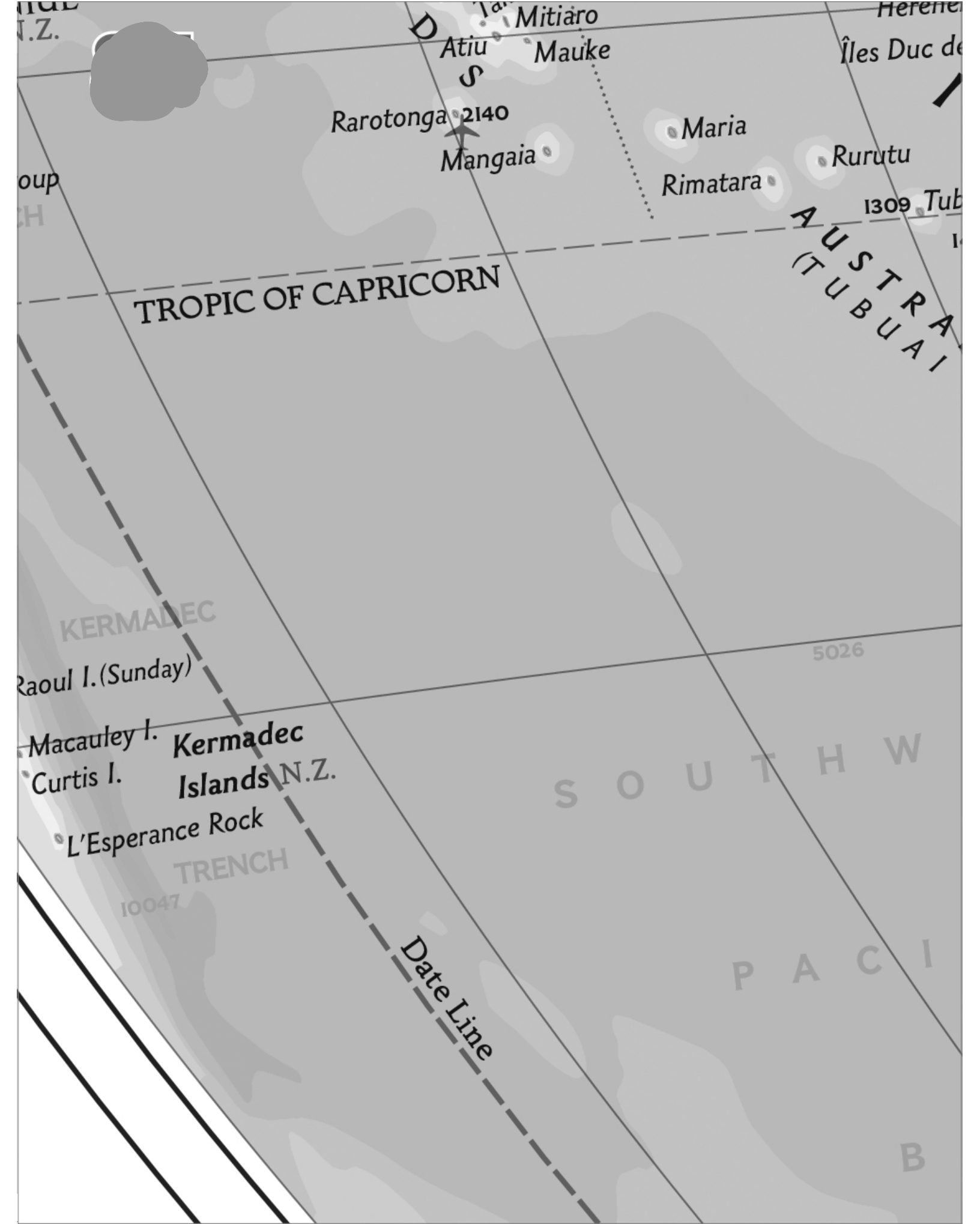
Nuku'alofa
Tongatapu Gr

Ata

10801

30°





TROPIC OF CAPRICORN

KERMADEC
Raoul I. (Sunday)
Macauley I.
Curtis I.
L'Esperance Rock
Kermadec Islands N.Z.

Date Line

S O U T H P A C I F I C

A U S T R A L I A N I S L A N D S
(TUBUAI)

Rarotonga 2140
Mangaia

Maria
Rimatarara

Rurutu

1309 Tubuai

5026

10047

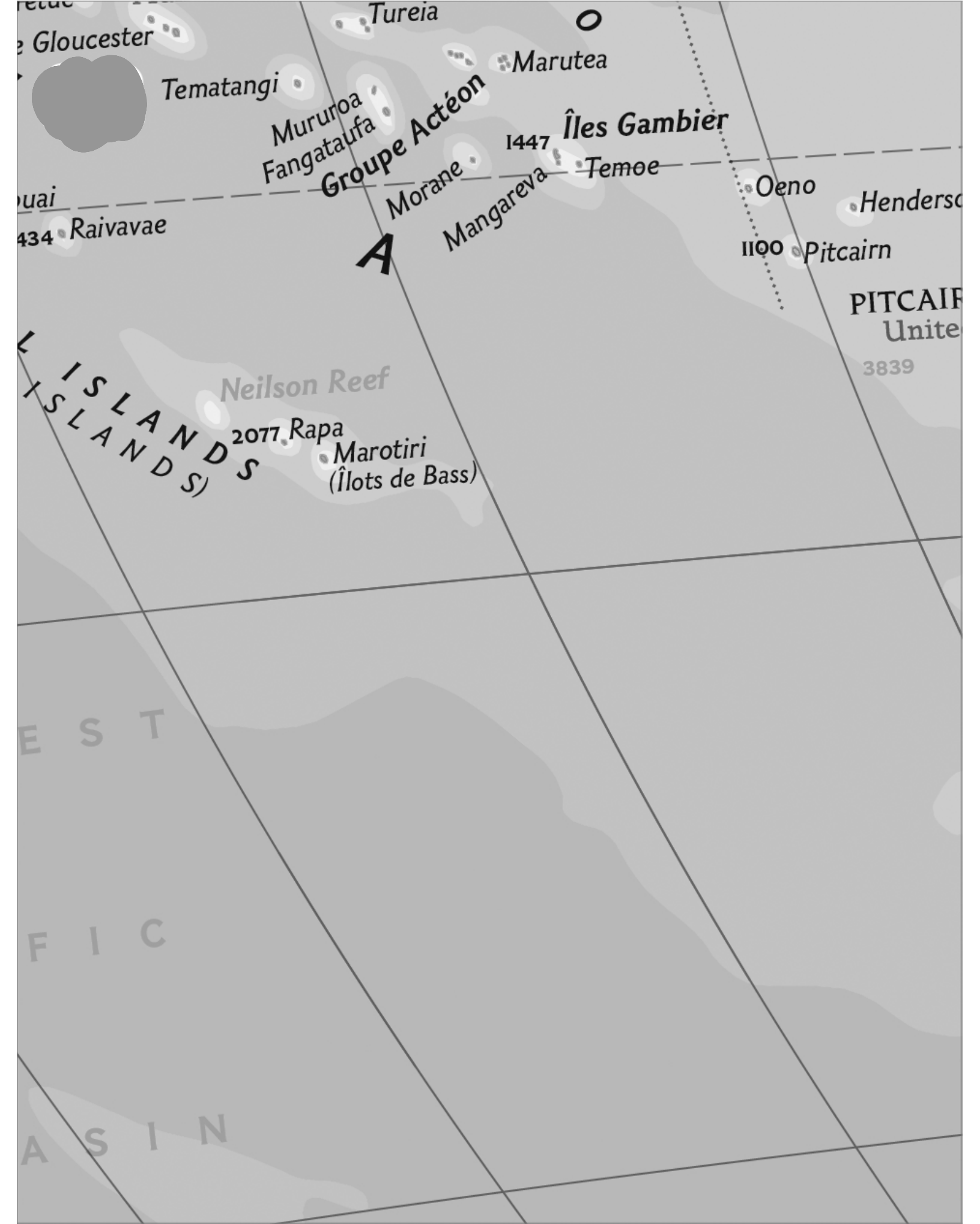
Mitiaro
Atiu
Mauke

Îles Duc de

N.Z.

oup
H





Gloucester

Tematangi

Mururoa
Fangataufa

Groupe Actéon

Tureia

Marutea

Îles Gambier

1447

Morane

Mangareva

Temoe

Oeno

Henderson

uai

434 Raivavae

1100

Pitcairn

PITCAIRN
United

3839

Neilson Reef

2077 Rapa

Marotiri
(Îlots de Bass)

PACIFIC ISLANDS

PACIFIC

PACIFIC

PACIFIC

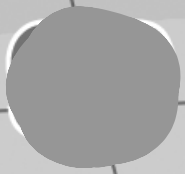
on
Ducie
RN ISLANDS
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Isla Sa
1969 Easter Island
(Isla de Pascua,
Rapa Nui)
Chile

P A C
P A C

279

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Isla y Gómez
Chile

Isla San Félix
Chil

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Isla Róbi
Isla Alejandro S
JUAN FER

C H I L E



Mejillones

Antofagasta

San Salvador de Jujuy

Llullaillaco Volcano: 22057

Salta

Asunción

Taltal

Diego de

San Miguel de Tucumán

Villarric

Isla San Ambrosio

Chañaral

Almagro

Fo

Caldera

Cerro Ojos del Salado: 22572

Belén

Resistencia

Huasco

Cerro del Toro: 20932

Santiago del Estero

La Serena

Catamarca

Goya

Ovalle

Córdoba

Santa Fe

Los Vilos

San Juan

Aconcagua

Paraná

Island of Robinson Crusoe
Island of San Ambrosio

Valparaíso

Cerro Aconcagua: 22831

Mendoza

Río Cuarto

NÁNDEZ ISLANDS
Chile

Santiago

San Luis

Rosario

Rancagua

San Rafael

Talca

Curicó

Chivilcoy

Chillán

Santa Rosa: 15449
Volcán Domuyo

Pehuajó

Concepción

Los Ángeles

Olavarría

Temuco

Neuquén

Río Negro

Valdivia

Zapala

Balneario

3991

Osorno

Puerto Montt

San Carlos de Bariloche

Viedma

Ancud

Isla Grande de Chiloé

Esquel

Península

Puerto

Rawson

Chonos

General San Martín

Puerto

Camarc



Concepción

Andrina

Campinas

Sorocaba

Santos

Fluminense

Armação

Trinidade

Passo Fundo

Mercedes

Uruguaiana

Salto

Paysandú

Montevideo

La Plata

Azul

Mar del Plata

Necochea

Tres Arroyos

Blanca

Madryn

Valdés

Argentin

Argentin

Argentin

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Argentin

Argentin

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Argentin

Argentin

Argentin

Argentin

Curitiba

Joinville

São Paulo

Florianópolis

Santa Maria

Caxias do Sul

Porto Alegre

Pelotas

Rio Grande

Treinta y Tres

Colonia del Sacramento

Rocha

Buenos Aires

Mar del Plata

Necochea

Tres Arroyos

Blanca

Madryn

Valdés

Argentin

Argentin

Argentin

Argentin

Argentin

Rio de Janeiro

Nova Iguaçu

Paranaguá

Imbituba

Tubarão

Patos Lagoon

638

RIO GRANDE

5421

ARGENTINA

ARGENTINA

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TRISTAN DA CUNHA

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Tristan da Cunha Island
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TRISTAN DA CUNHA
ISLAND

2986 Gough

TRISTAN DA CUNHA

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Inhambane

Kai-Xai
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Lucia
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Toliara
Ampanihy
Androka



Cap Ste. Marie

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Îles des Apôtres

la Possession 3064





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Île Amsterdam
France 1423

Île St.-Paul

4000

5958

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6602

4572







AUSTRALIA

QUEENSLAND

SOUTH AUSTRALIA

NEW SOUTH WALES

WESTERN AUSTRALIA

VICTORIA

Australian Capital Territory (A.C.T.)

Adelaide

Melbourne

Sydney

Wollongong

Canberra

Geelong

King Island

Bass Strait

Furneaux Group

Barrow Creek

Mount Isa

Cloncurry
Hughenden

Dajarra

Winton

Mt. Leisler 2955

Macdonnell Ranges

Alice Springs

Longreach

Yulara

Simpson Desert

Birdsville

Charleville

Mount 4723

Woodroffe

Oodnadatta

Lake Eyre

Cunnamulla

Roma

Toowoomba

Goondiwindi

Marree

Leigh Creek

Bourke

Collarenebri

Walgett

Dubbo

Dubbo

Orange

Taree

Newcastle

Ceduna

Broken Hill

Whyalla

Port Augusta

Port Pirie

Wallaroo

Mildura

Wagga Wagga

Goulburn

Lincoln

Spencer Gulf

St. Vincent

Kangaroo I.

Adelaide

Wagga Wagga

Albury

Cooma

Mt. Kosciuszko 7310+

Bendigo

Ballarat

Mount Gambier

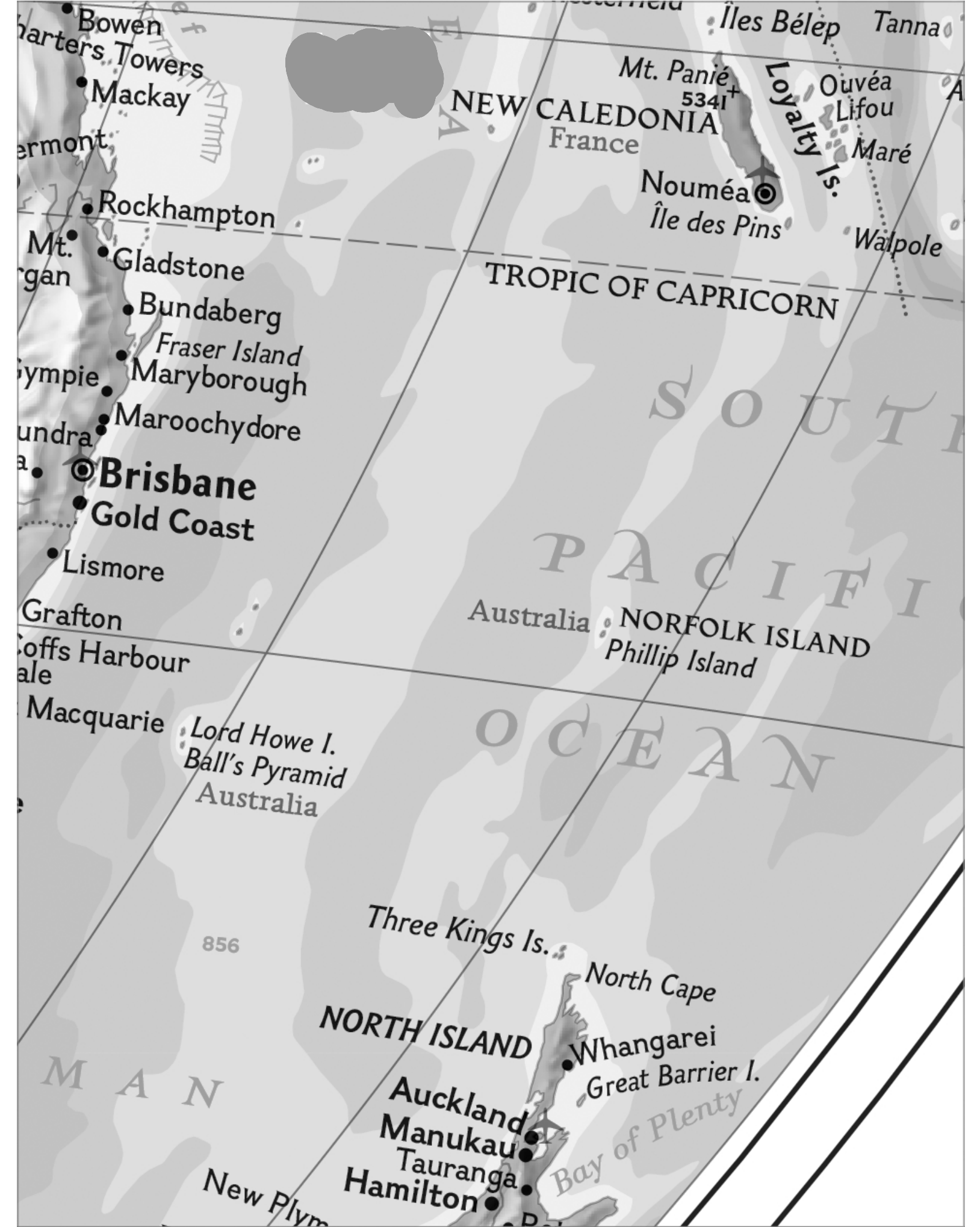
Warrnambool

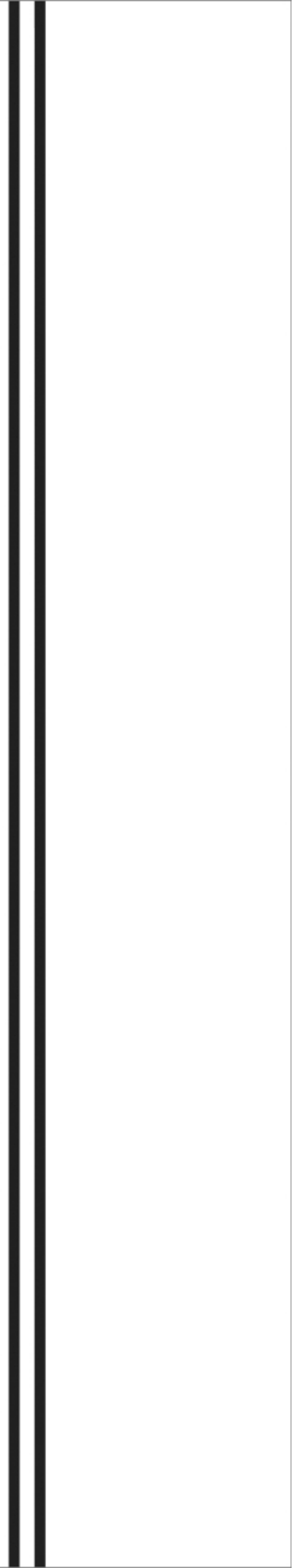
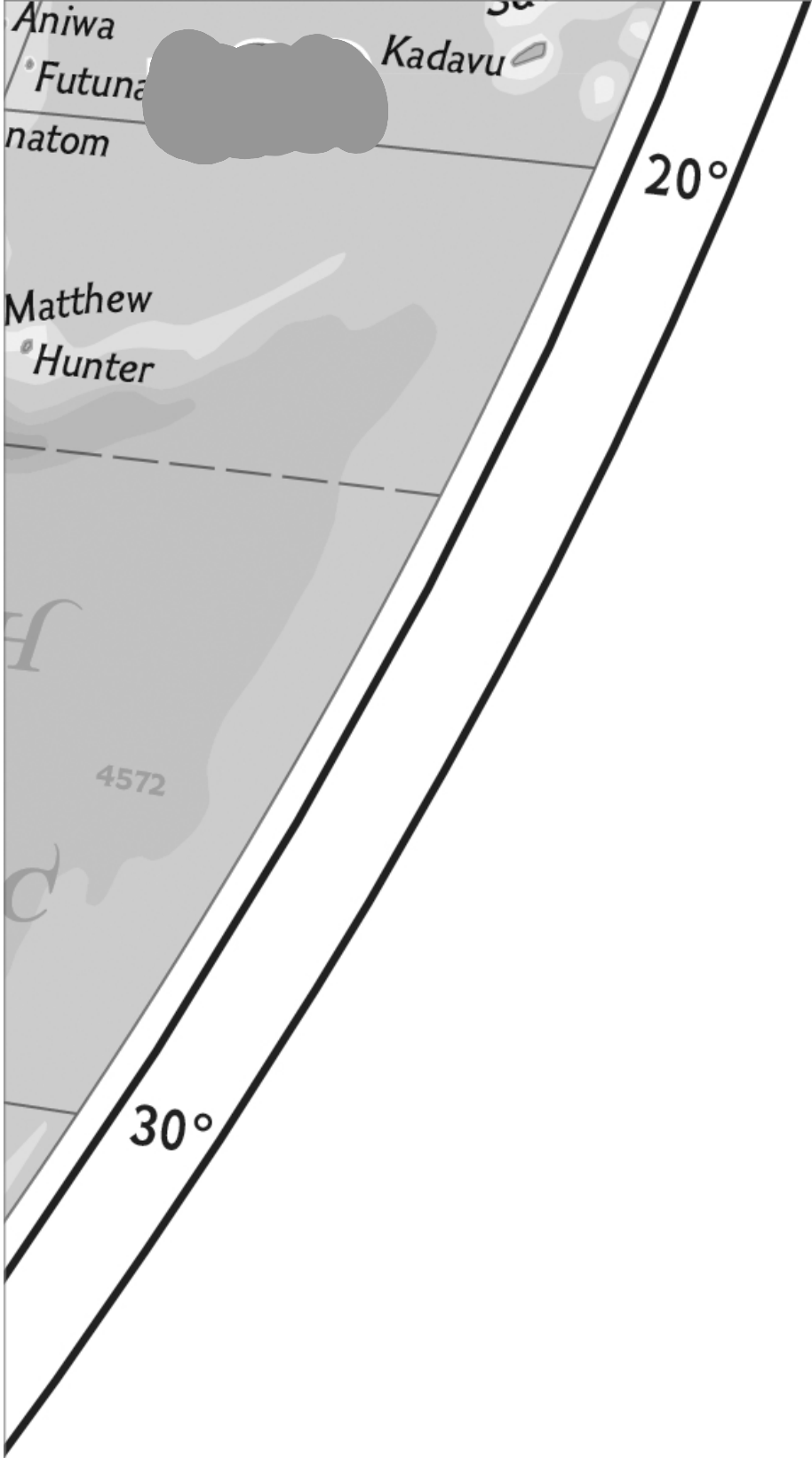
Geelong

Traralgon

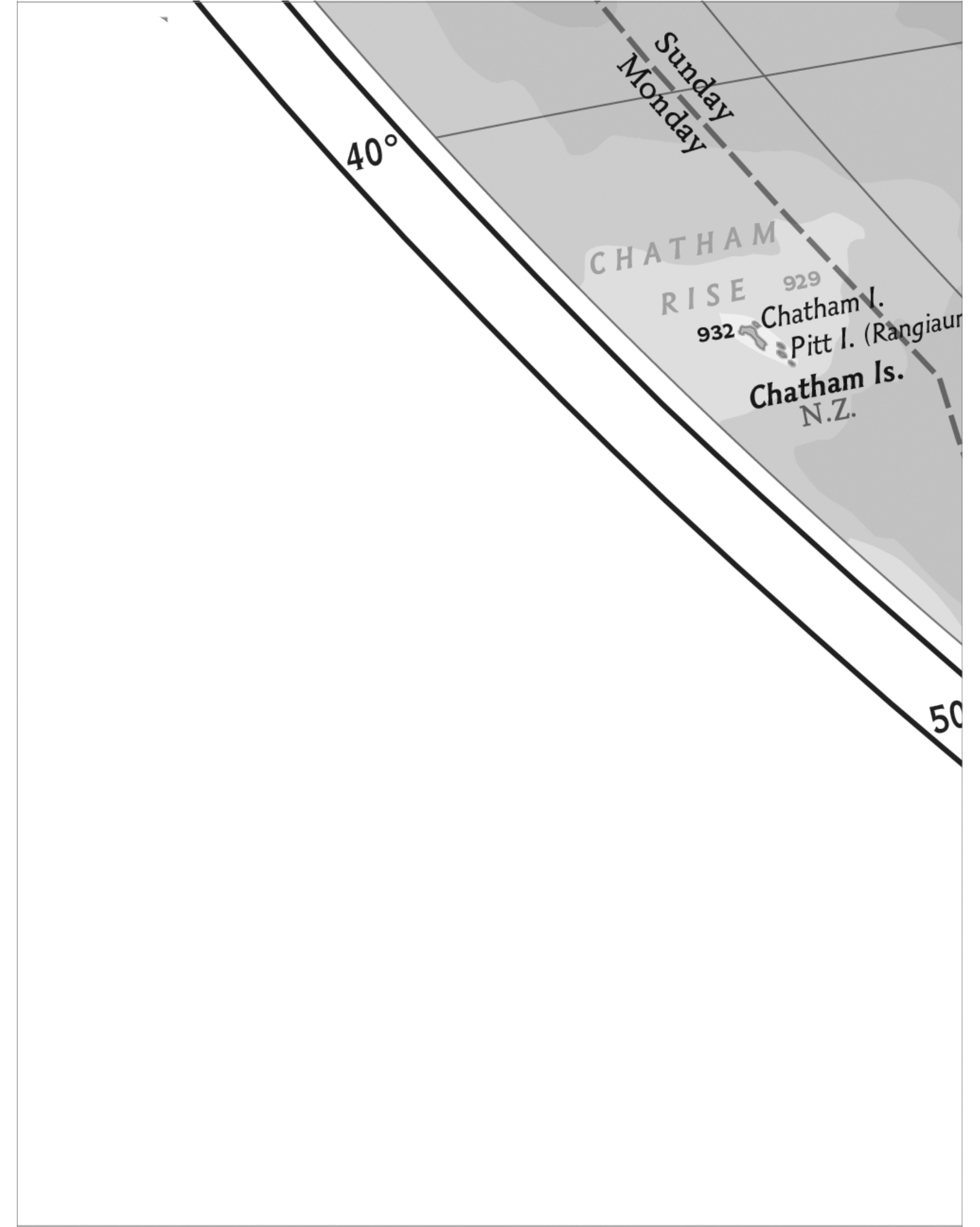
Wilson's Promontory

Burnie





1



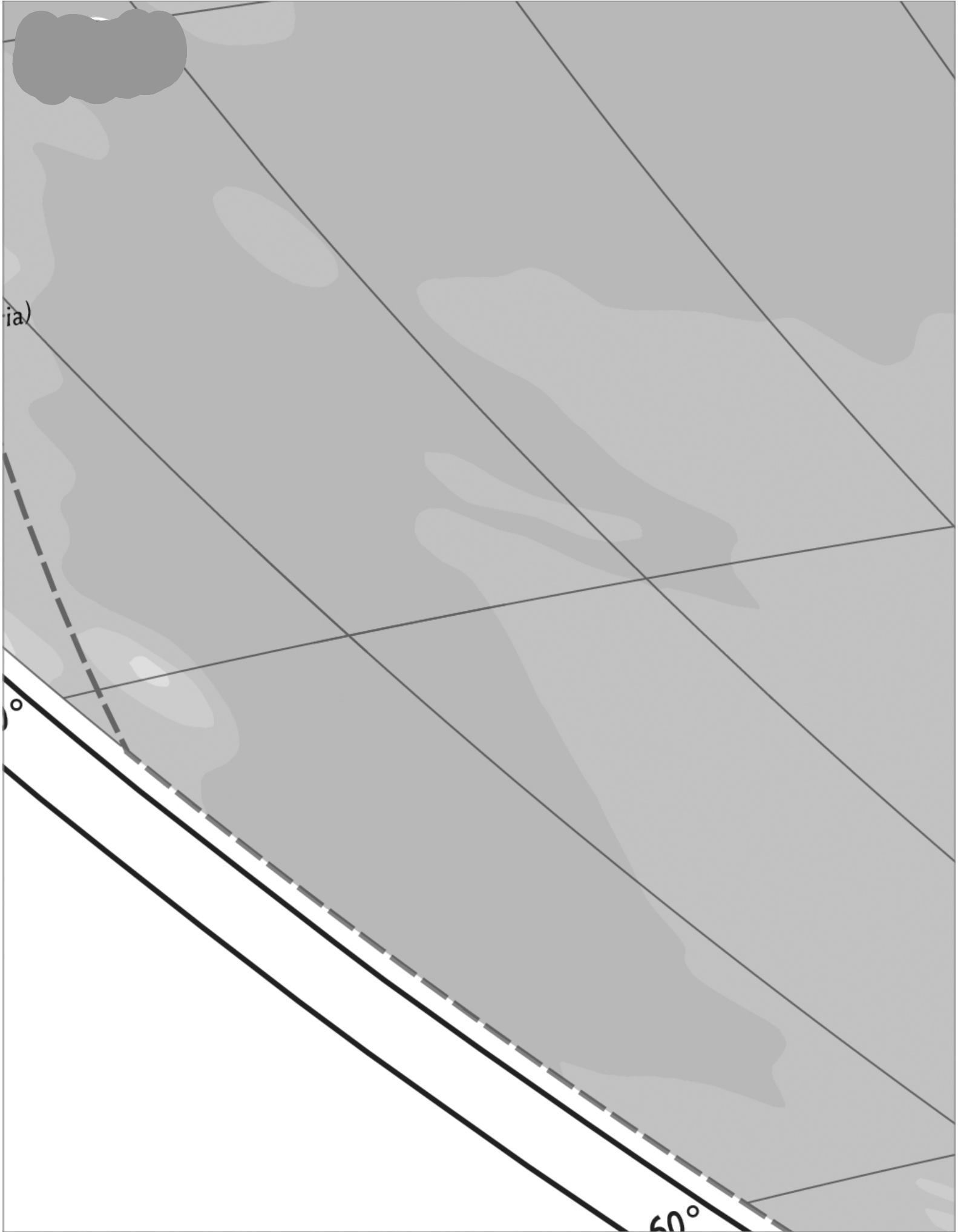
Sunday
Monday

40°

CHATHAM
RISE

929
932 Chatham I.
Pitt I. (Rangiaur)
Chatham Is.
N.Z.

50







4371

A C E A N

3323

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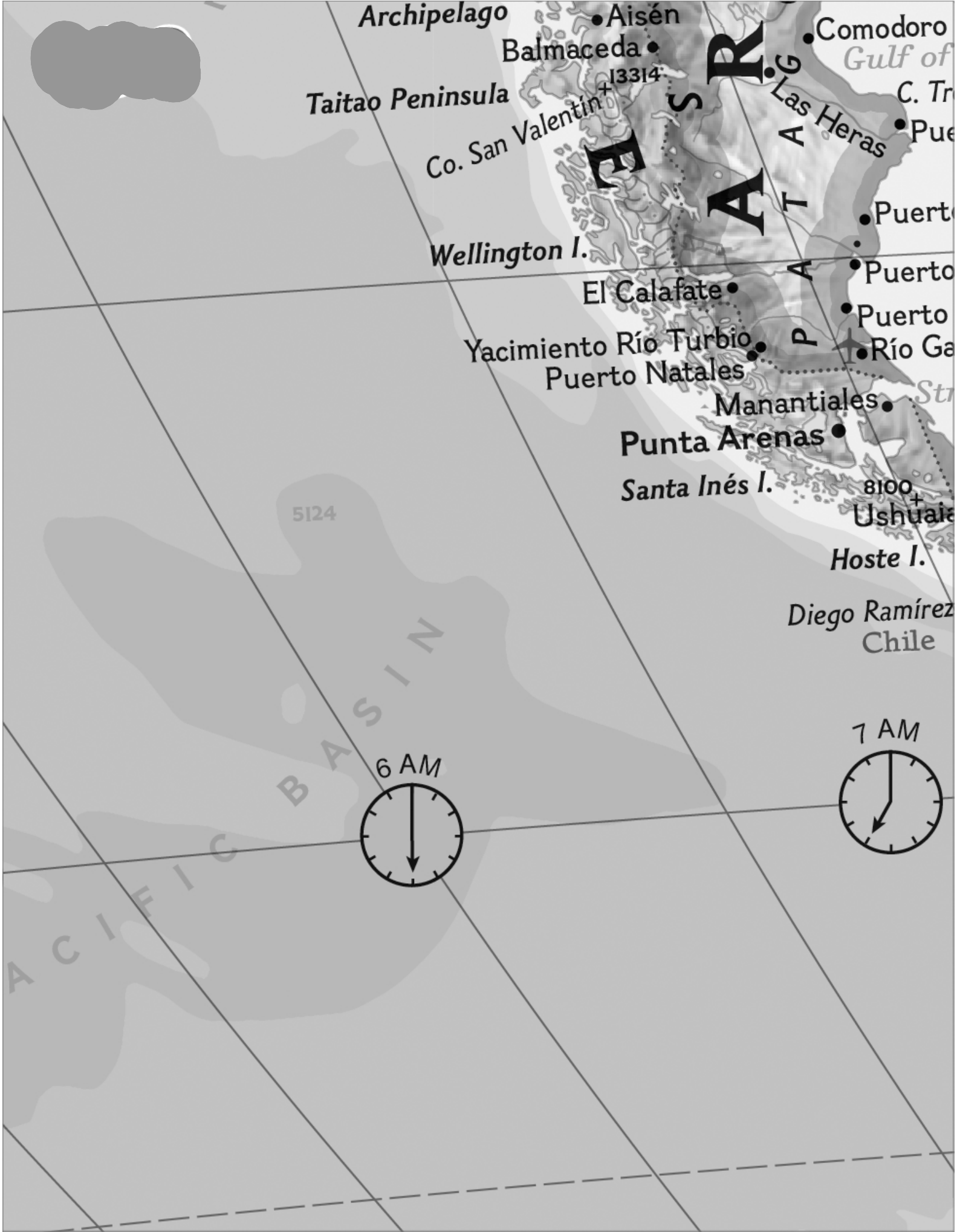
5 AM

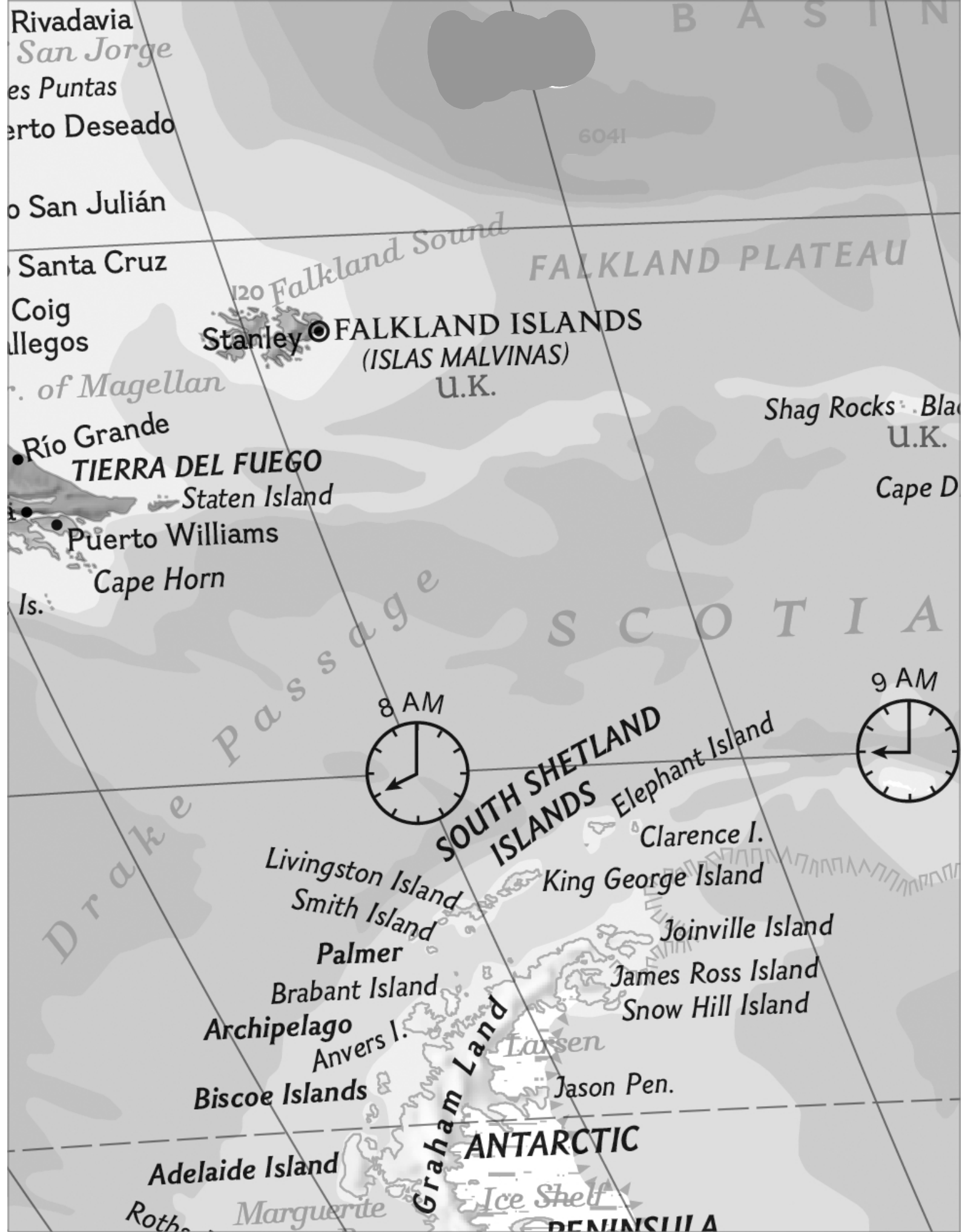
4 AM

AM



S O U T H E A S T P





Rivadavia
San Jorge
Puntas
erto Deseado

o San Julián
Santa Cruz
Coig
llegos

. of Magellan
Río Grande

TIERRA DEL FUEGO
Staten Island
Puerto Williams
Cape Horn
Is.

120 Falkland Sound
Stanley ● **FALKLAND ISLANDS**
(ISLAS MALVINAS)
U.K.

FALKLAND PLATEAU

Shag Rocks · Bla
U.K.
Cape D

Drake Passage **SCOTIA**



SOUTH SHETLAND ISLANDS

Livingston Island
Smith Island
Palmer
Brabant Island
Archipelago
Anvers I.
Biscoe Islands
Elephant Island
Clarence I.
King George Island
Joinville Island
James Ross Island
Snow Hill Island
Larsen
Jason Pen.

Adelaide Island
Roth
Marguerite
ANTARCTIC
Ice Shelf
PENINSULA

Black Rock

SOUTH GEORGIA
U.K.

Disappointment

Clerke Rocks

SOUTH SANDWICH TRENCH

Traversay Islands

8325

Candlemas Is.

SOUTH

SEA

Saunders I.

SANDWICH

ISLANDS

U.K.

10 AM



Bristol I.

Southern Thule

11 AM



Winter Extent of Sea Ice

Ek



2539

ATLANTIC

Bouvet 3068
Norway



ATLANTIC

Jelbart Ice Stream
Ice Stream

Prince Edward Island
Marion Island 3
**Prince Edward
Islands**
South Africa

- INDIAN RIDGE

5373



INDIAN BASIN

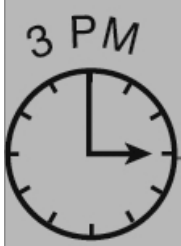
Erskine Iceport
Mid Bay
Riiser-Larsen Peninsula
Lützow-Holm Bay
Prince Olav
Amundsen Bay
Casey Bay
END

390

Île aux Cochons
Îles des Pingouins
Île de la Rose
Île de l'Est 3576
CROZET ISLANDS
France

Îles
Île d
Îles d

4271



Cape Ann
Cape Borley
Cape Boothby
Edward VIII Bay
Kemp Coast
Mawson Coast
Bjerko Pen.
MacKenzie Bay
ERBY LAND
Glacier

KERGUELEN ISLANDS
France

Nuageuses
de l'Ouest
de Boynes
+ 6070
Île Kerguelen
● Port-aux-Français

1710

4181

KERGUELEN

McDonald Is. Shag Island
Australia Heard Island 9005

PLATEAU

SOUTH

5 PM



6 PM



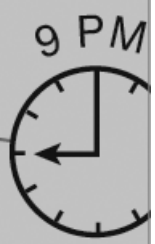
Ice Shelf West
Leopold and
Wilhelm II
Coast
Davis Sea
Queen Mary Coast
Masson Island
Shackleton
Ice Shelf
Vincennes
Knox Coast
Budd



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Bay
Cape Poinsett

Moscow University
Ice Shelf

Toyeyskov Ice Shelf
Goodenough
Bay

Bay
Morse



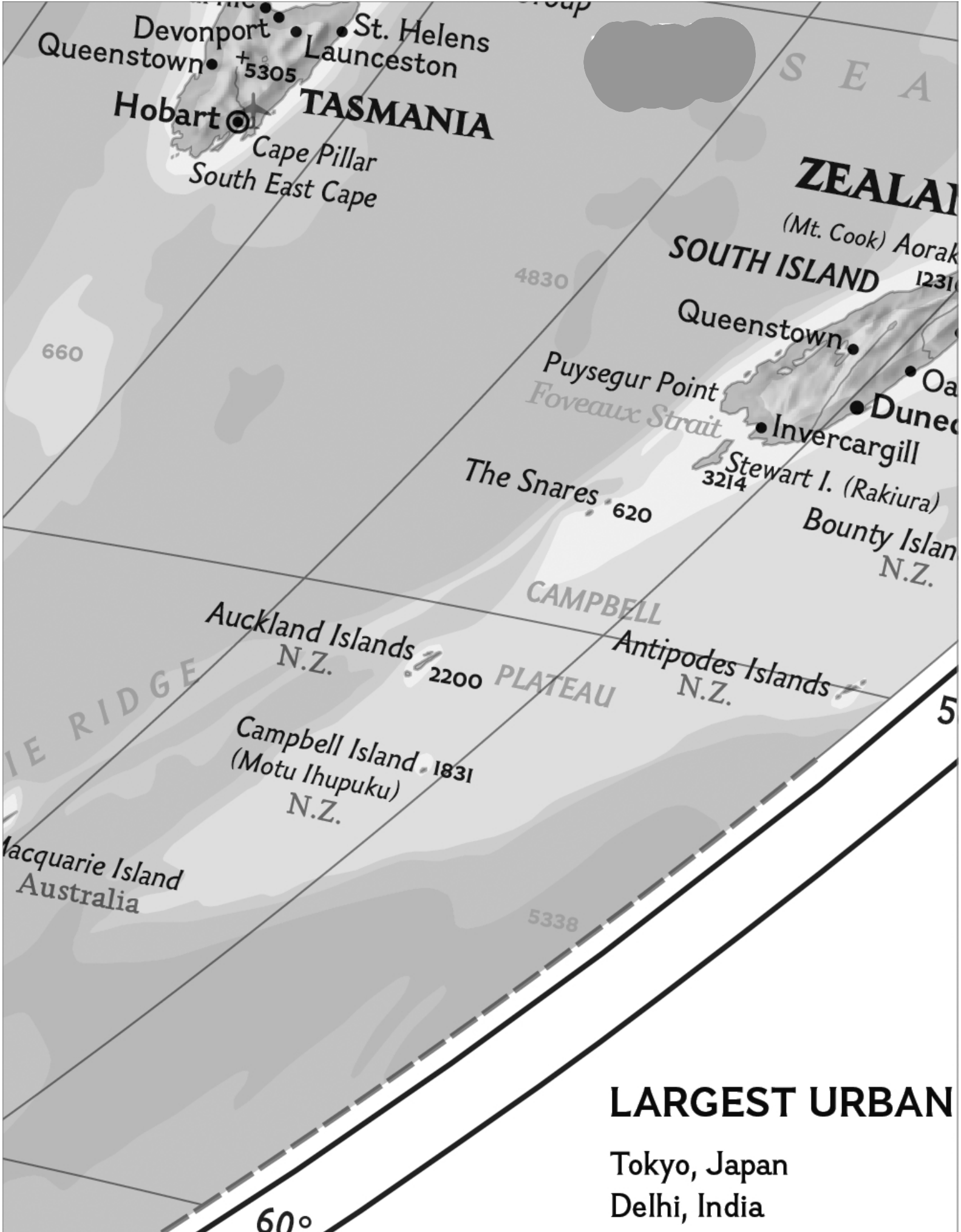
R
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E

MACQUAR





TASMANIA

ZEALANDIA

SOUTH ISLAND

CAMPBELL

PLATEAU

Antipodes Islands

ANTARCTIC RIDGE

Devonport
Queenstown +5305
Hobart
Cape Pillar
South East Cape

St. Helens
Launceston

(Mt. Cook) Aoraki 1231

4830

660

Queenstown
Puysegur Point
Foveaux Strait
Invercargill
Stewart I. (Rakiura) 3214
The Snares 620

Auckland Islands
N.Z. 2200

Campbell Island 1831
(Motu Ihupuku)
N.Z.

Macquarie Island
Australia

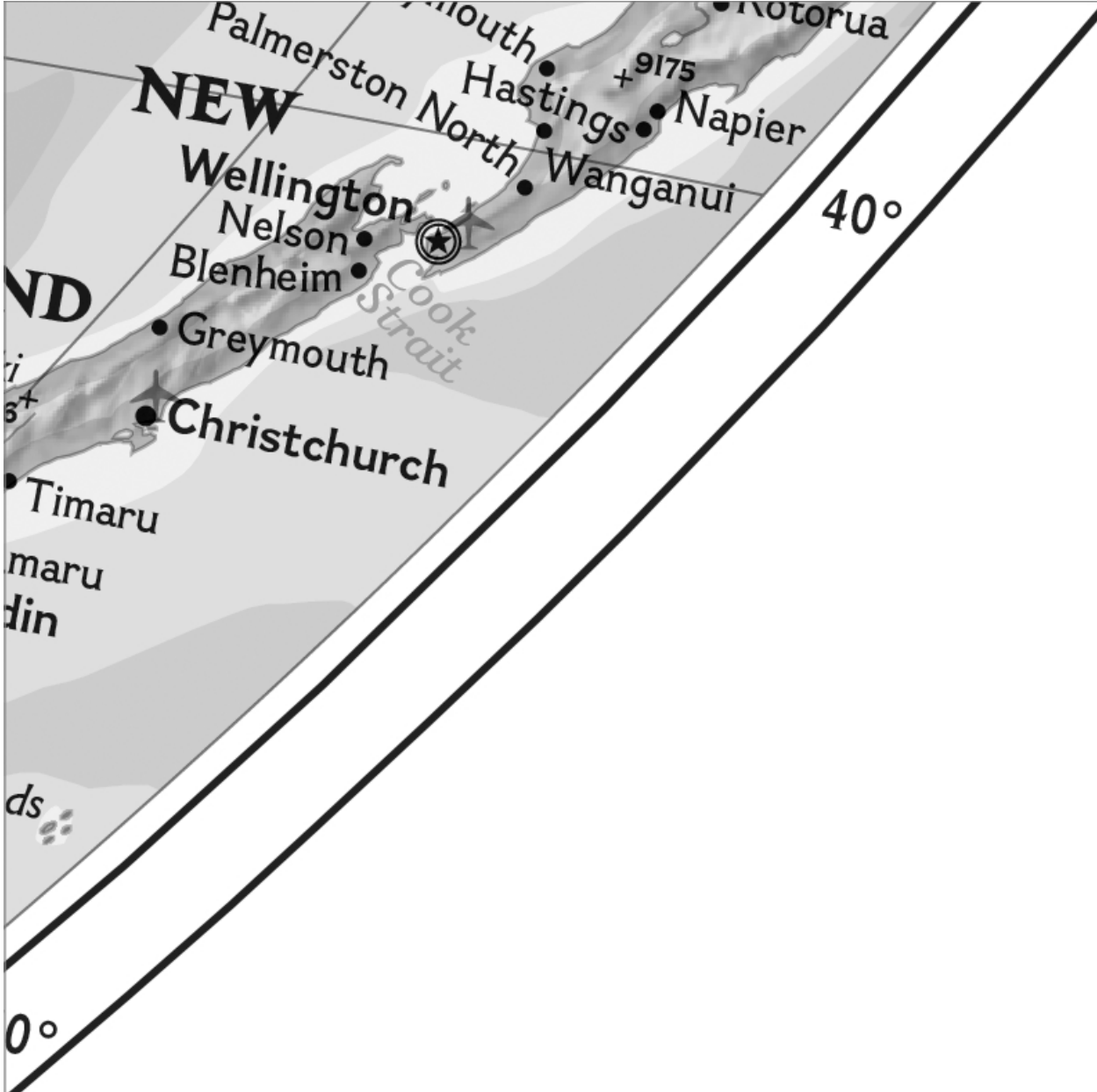
5338

LARGEST URBAN

Tokyo, Japan
Delhi, India

60°

50°



AREAS, 2011

37,000,000
23,000,000

LARGEST URBAN AREAS

Tokyo, Japan
Delhi, India

BAN AREAS, projected 2025

39,000,000

33,000,000

22,000,000

WIN



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WINKEL TRIPEL PROJECTION, CENTRAL MERIDIAN 0°

1000

1500

2000

2500

KILOMETERS

1000

1500

2000

STATUTE MILES

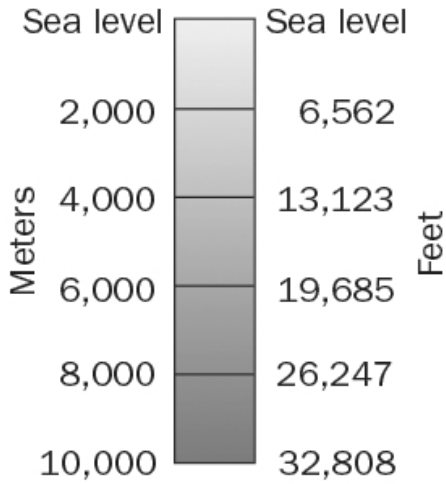


Dry salt lake



Glacier

Depths (soundings) in meters



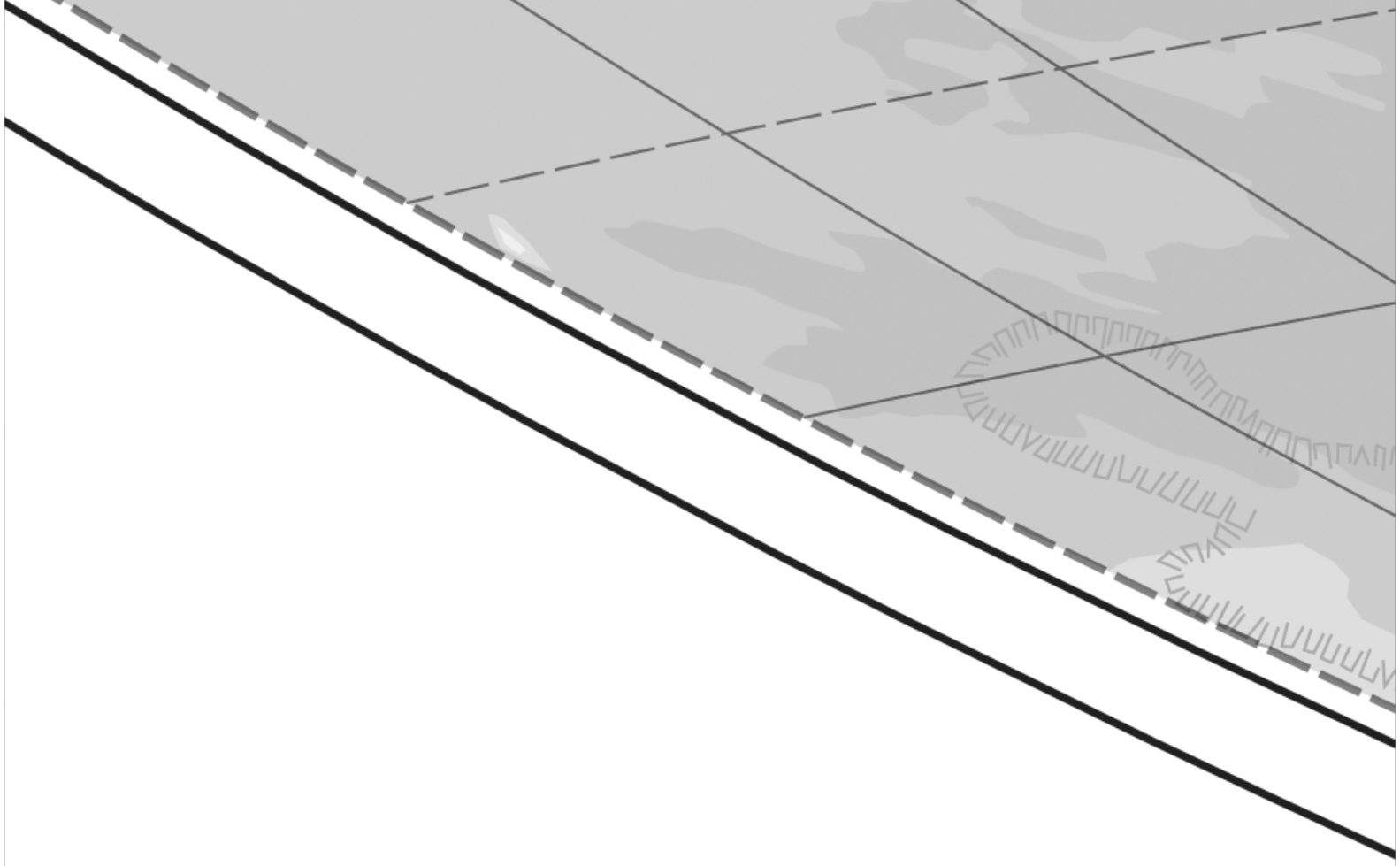
National Geographic Society, Washington, D.C.

2500



80



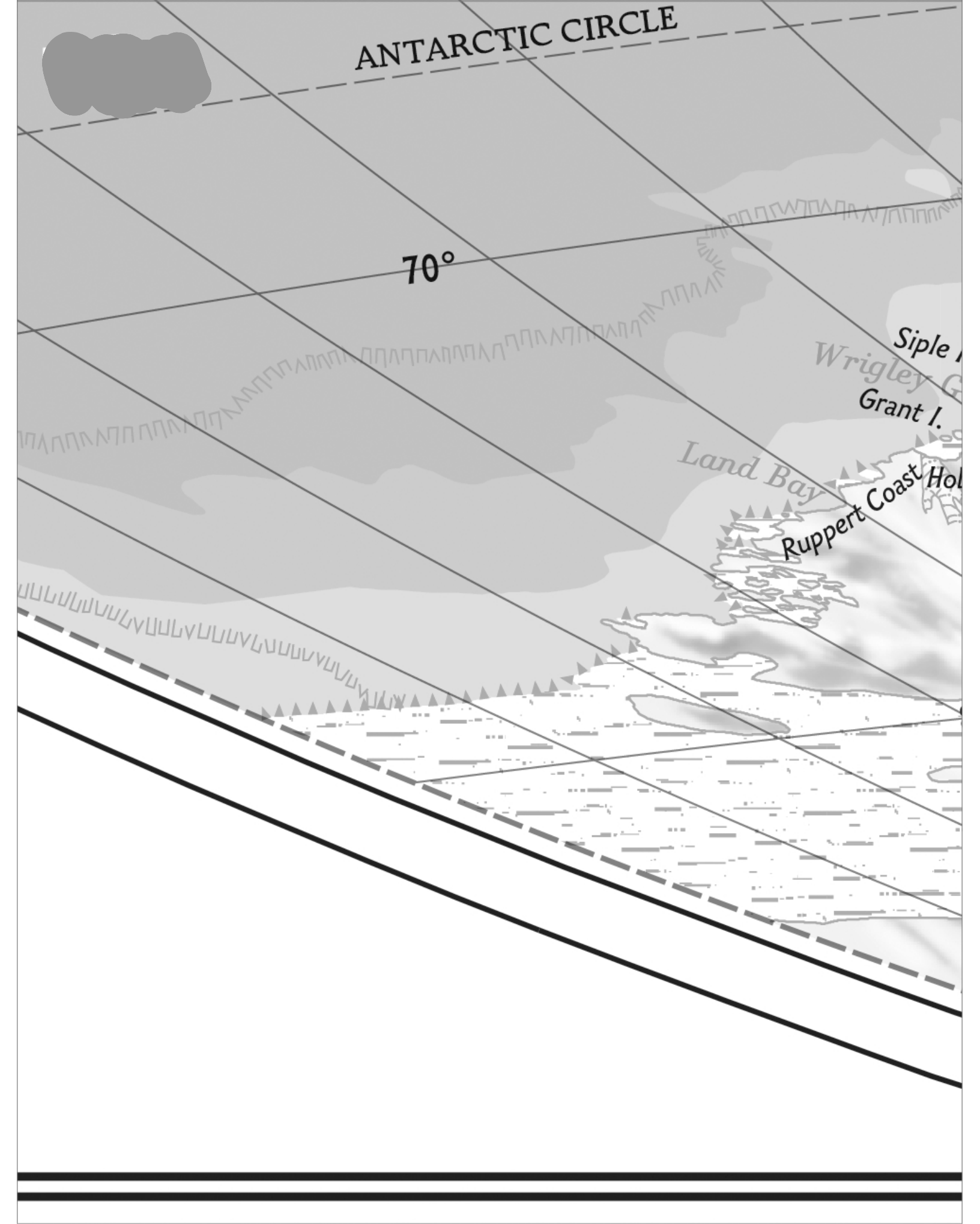


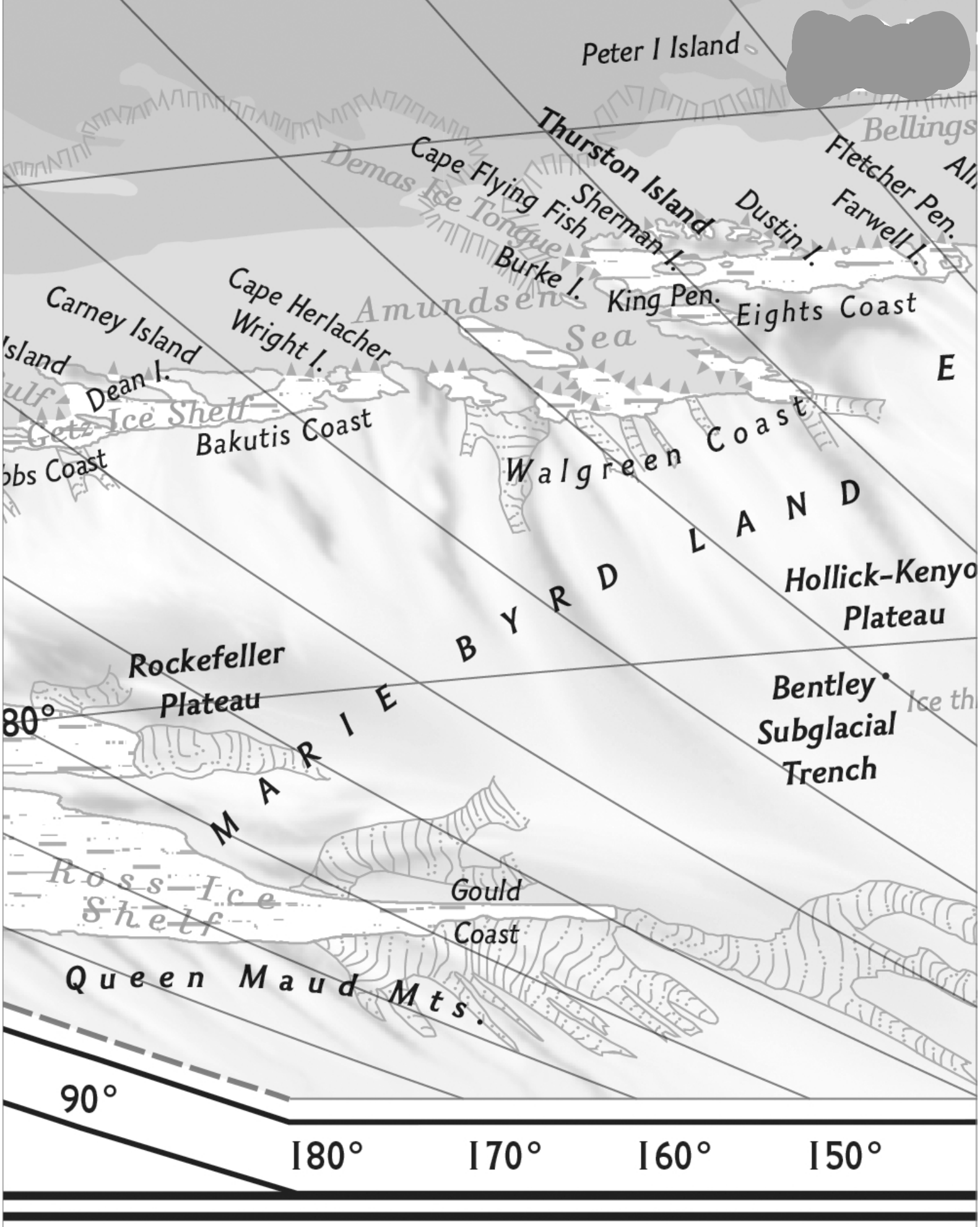
ANTARCTIC CIRCLE

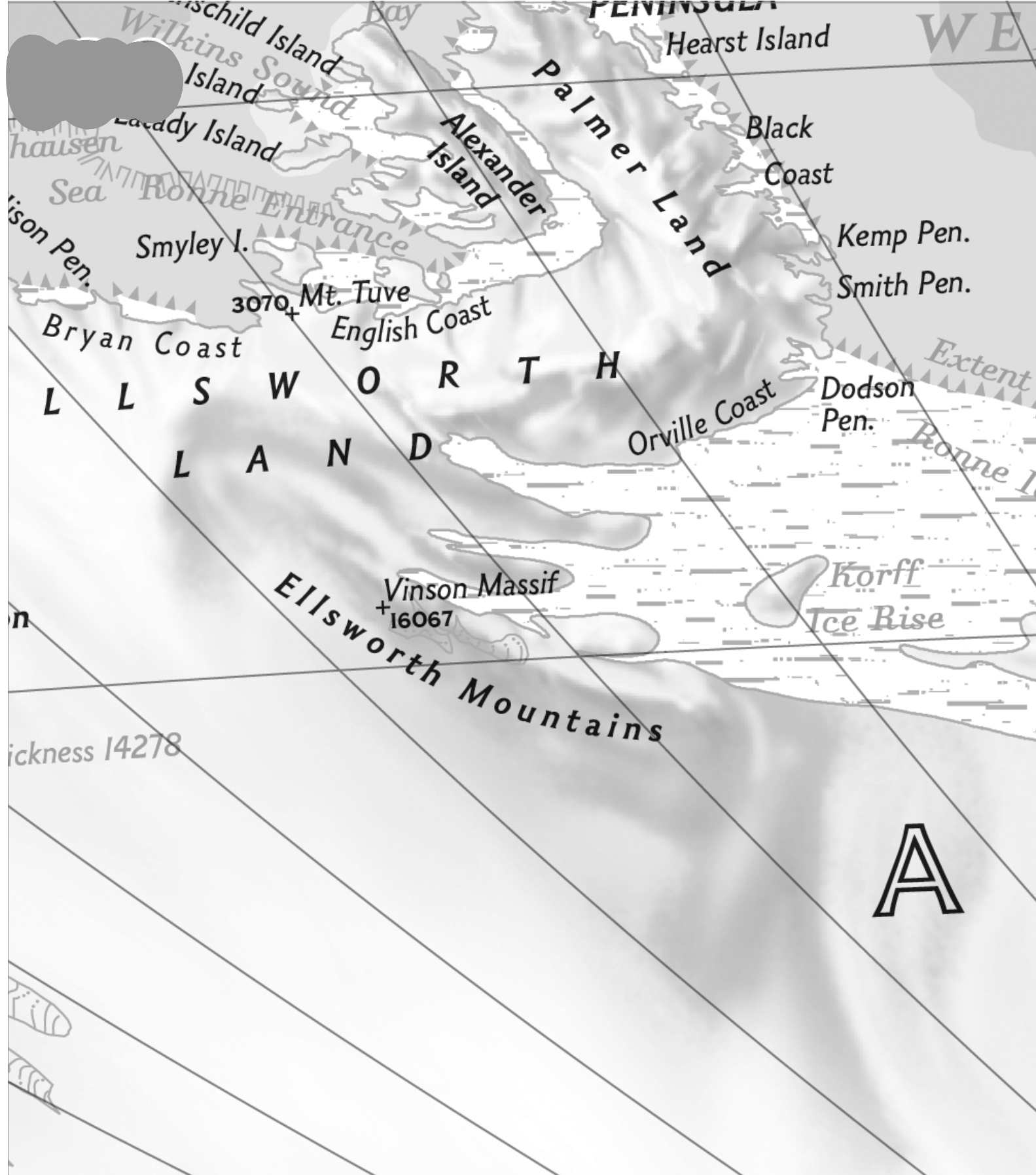
70°

Siple I.
Wrigley G.
Grant I.

Land Bay
Ruppert Coast







140° 130° 120° 110° 100° 90°

DDELL

SEA

Rüser-La
Ice Shee

Lyddan I.

Brunt Ice Shelf

Caird Coast

of Ice Shelf

Gould
Bay

Ice Shelf

COATS LAND

Berkner
Island

Filchner Ice Shelf

Support Force
Glacier

N

T

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Foundation
Ice Stream

80°

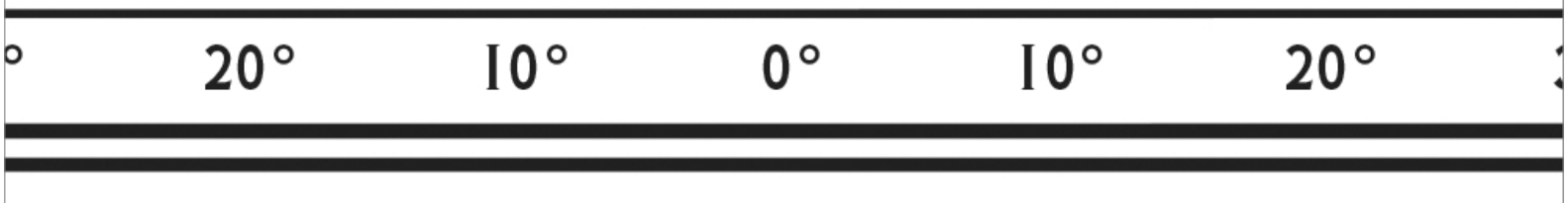
70°

60°

50°

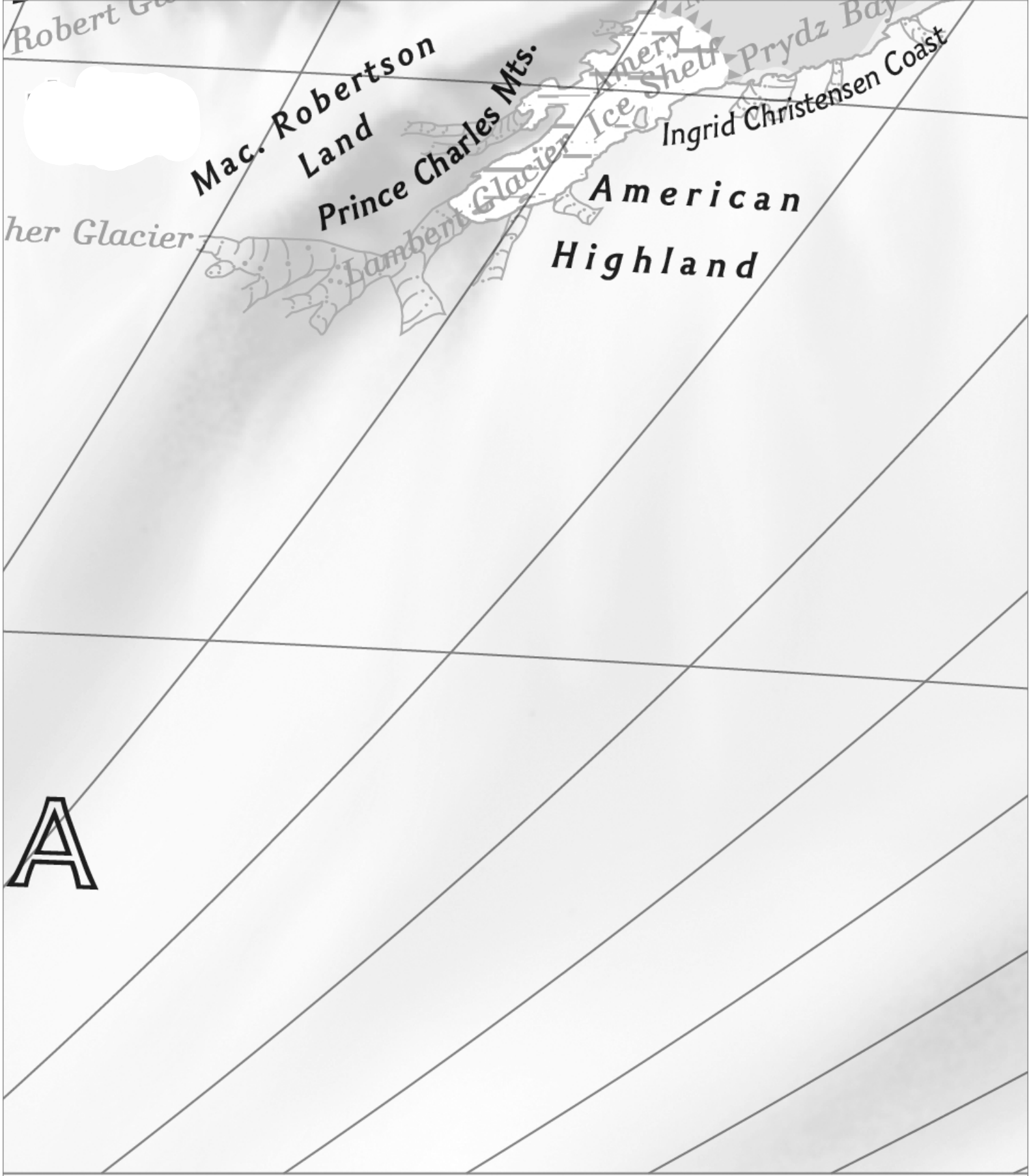
40°

30°

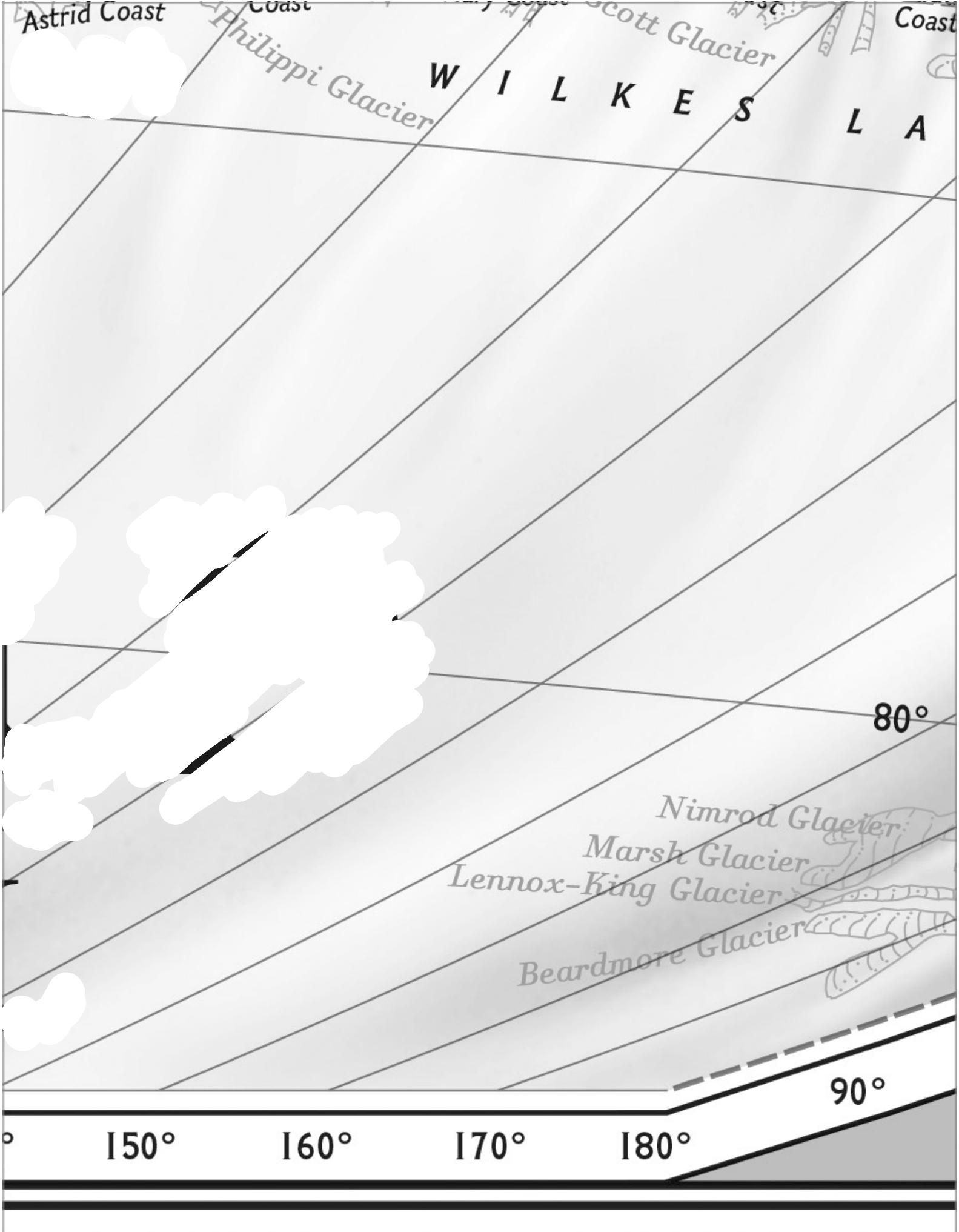


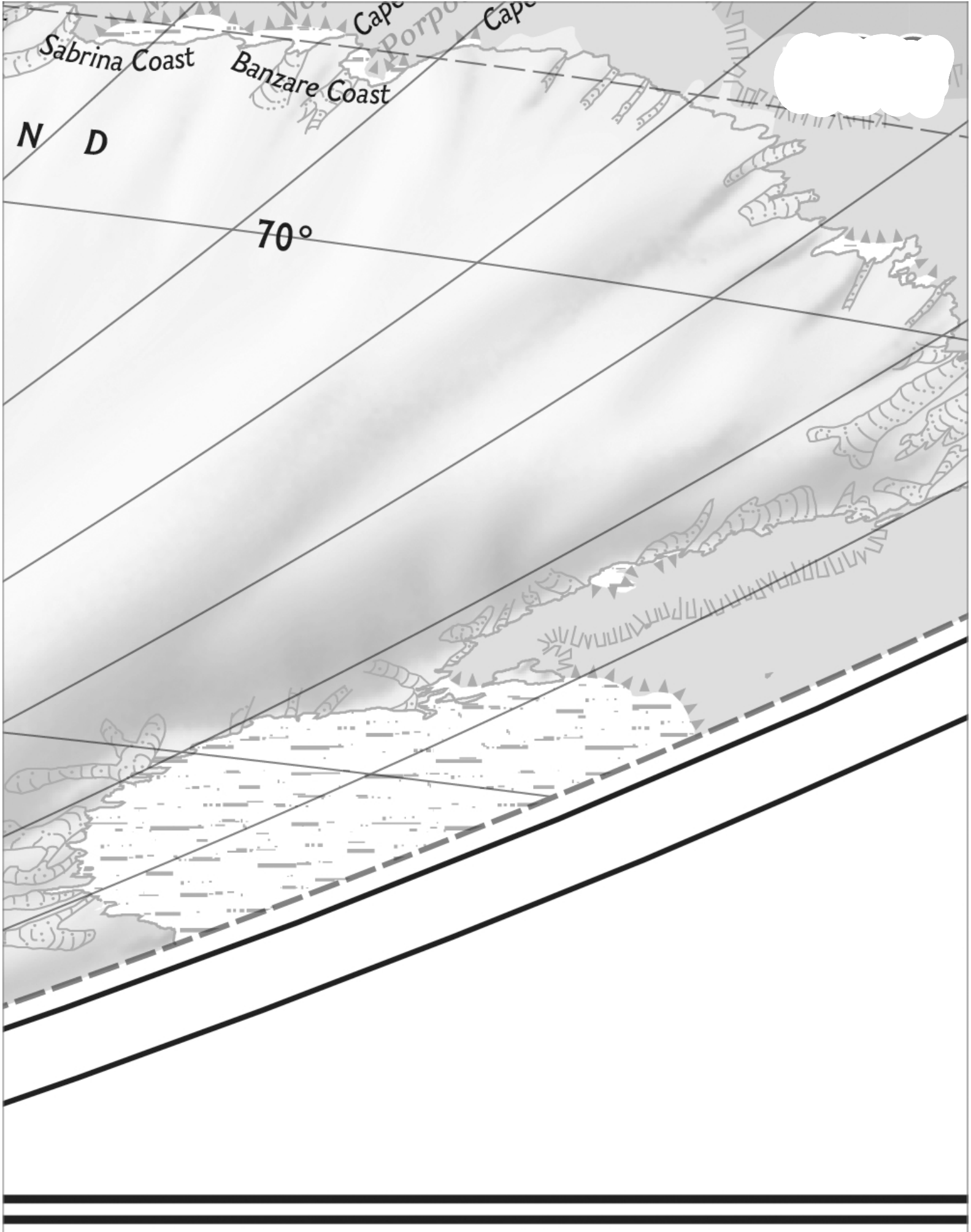


30° 40° 50° 60° 70° 80°



90° 100° 110° 120° 130° 140°





Sabrina Coast

Banzare Coast

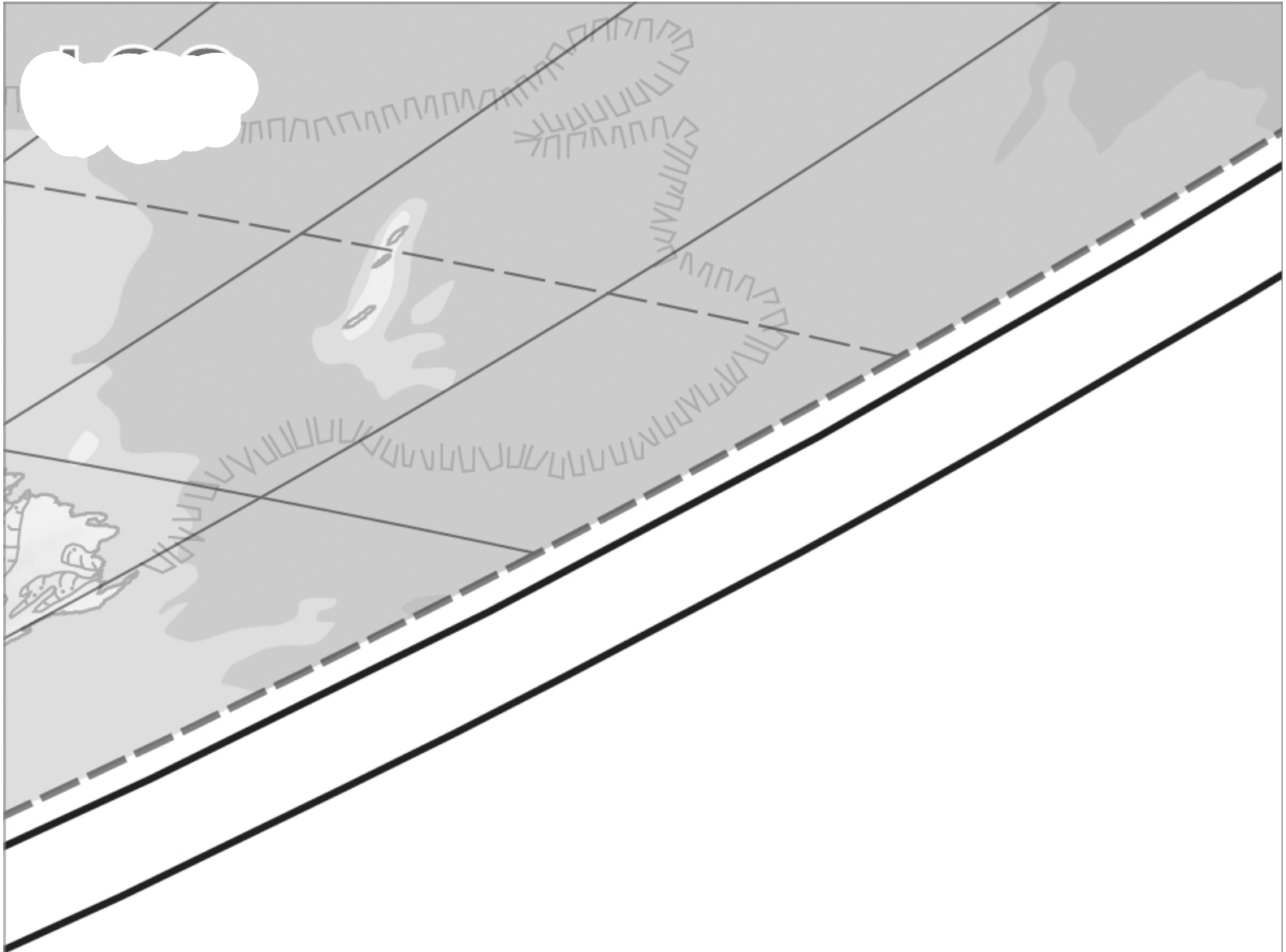
Cape

Cape

Потро

N D

70°





Ciudad de México (Mexico)
New York-Newark, U.S.
Shanghai, China
São Paulo, Brazil
Mumbai (Bombay), India
Beijing, China
Dhaka, Bangladesh
Kolkata (Calcutta), India
Karachi, Pakistan
Buenos Aires, Argentina
Los Angeles-Long Beach-
Rio de Janeiro, Brazil
Manila, Philippines
Moskva (Moscow), Russia
Osaka-Kobe, Japan
Istanbul, Turkey
Lagos, Nigeria
Al-Qahirah (Cairo), Egypt

Data is from the most recent year
and is published by the United Nations
Economic and Social Affairs, Popu

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	20,000,000	New York-Newark, I
	20,000,000	São Paulo, Brazil
	16,000,000	Dhaka, Bangladesh
	15,000,000	Beijing, China
	14,000,000	Karachi, Pakistan
	14,000,000	Lagos, Nigeria
	14,000,000	Kolkata (Calcutta), I
Santa Ana, U.S.	13,000,000	Manila, Philippines
	12,000,000	Los Angeles-Long B
	12,000,000	Shenzhen, China
	12,000,000	Buenos Aires, Arger
	12,000,000	Guangzhou, Guangd
	11,000,000	Istanbul, Turkey
	11,000,000	Al-Qahirah (Cairo),
	11,000,000	Kinshasa, Democrati
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		Rio de Janeiro, Braz
		Bangalore, India
		Jakarta, Indonesia
		Chennai (Madras), I
		Wuhan, China
		Moskva (Moscow), F
		Paris, France

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Me <i>... 2011</i> , Mexico	25,000,000
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	23,000,000
	23,000,000
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	19,000,000
India	19,000,000
	16,000,000
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il	14,000,000
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India	13,000,000
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Russia	13,000,000
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