

1

The **V**



**NATIONAL
GEOGRAPHIC**

edu

2

WORLD

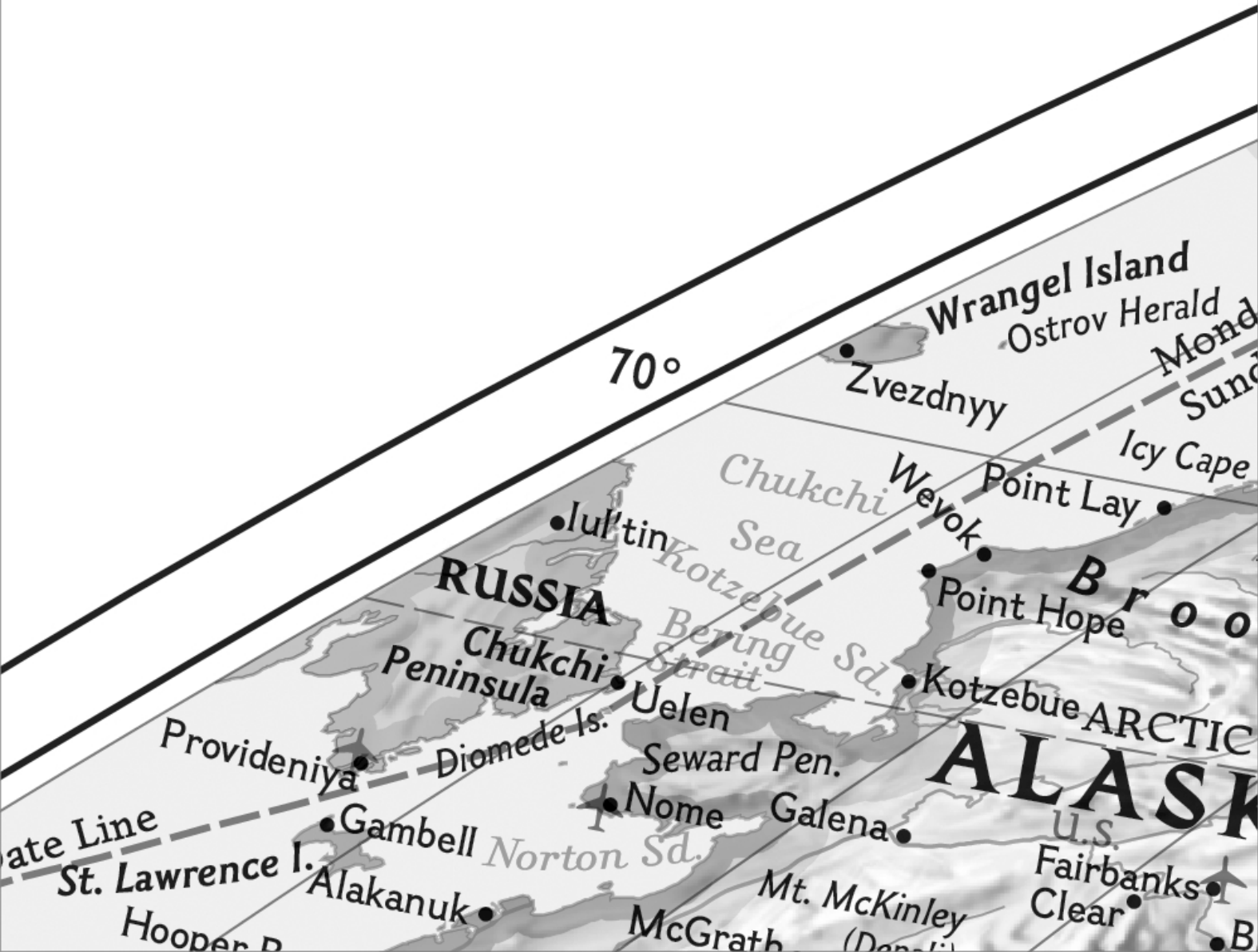
**AL
PHIC**

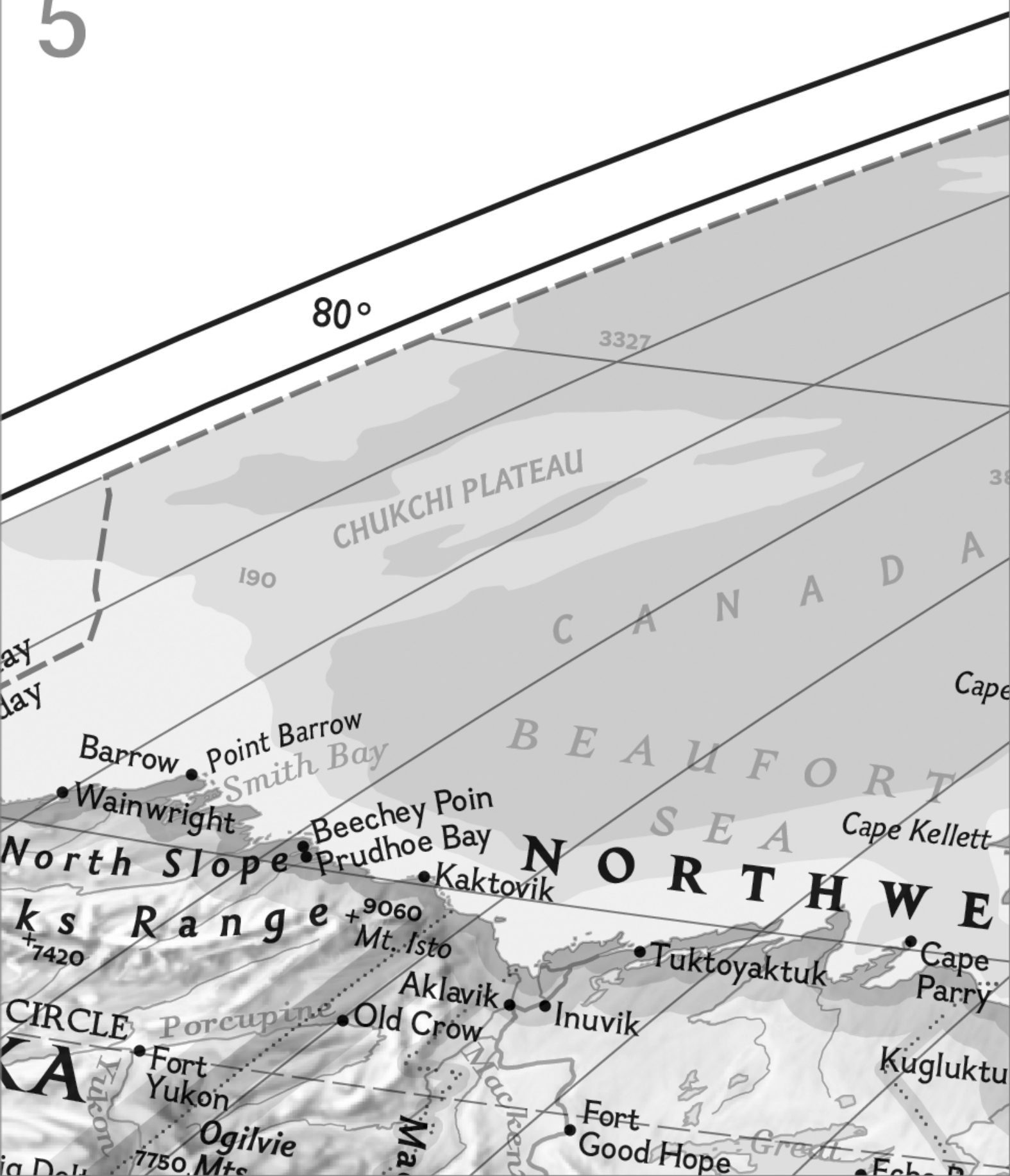
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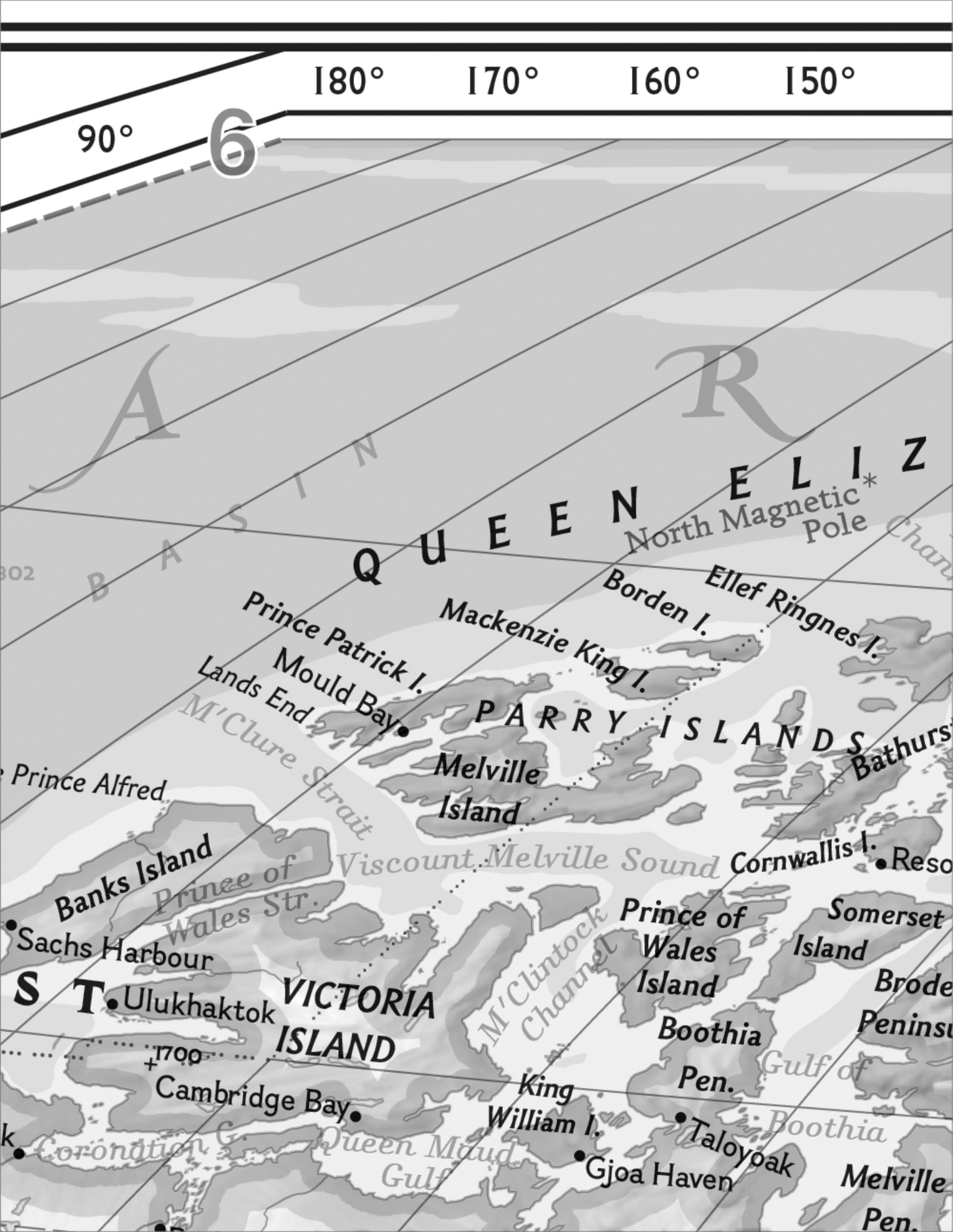
3

D









180°

170°

160°

150°

90°

6

A

R

QUEEN ELIZ

North Magnetic Pole*

Prince Patrick I.

Mackenzie King I.

Borden I.

Ellef Ringnes I.

Mould Bay

PARRY ISLANDS

Melville Island

Bathurst

Prince Alfred

Banks Island

Prince of Wales Str.

Viscount Melville Sound

Cornwallis I.

Sachs Harbour

ST. Ulukhaktok VICTORIA ISLAND

M'Clintock Channel

Prince of Wales Island

Somerset Island

Cambridge Bay

King William I.

Boothia Pen.

Brodeur Peninsula

Coronation

Queen Maud Gulf

Gjoa Haven

Taloyoak

Melville Pen.

140° 130° 120° 110° 100° 90°

7



80°

70°

60°

50°

40°

30°

8

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

suvaq (Shavn)

rsuatsiaq (Prøven)

mmannaq

issat (Jakobshavn)

Denmark

+10728
Ice thickness 11188

King Christian X Land

Clave

Foster I

Ittoqqorto (Scoresbysu)

Scoresby Sound

West of Greenwich

Longitude East of Gr

Meridian of Greenwich
(London)

Wandel
Sea

North-east Foreland

Prince Charles Foreland

Spitsbergen

Longyearbyen

Norske Øer

Qeqertaq Prins Henrik

ove Bay

Shannon

ring I.

Bay

ormiit
(nd)

JAN MAYEN
7470⁺
Norway

NORWEGIAN

Storifjord

Tro

30° 40° 50° 60° 70° 80°

10

Greenwich



90°

100°

110°

120°

130°

140°

11



12

150°

160°

170°

180°

90°



nd

r Revolution Island

Bol'shevik Island

068+

elyuskin

Vil'kitskiy Strait

+3760

Mys Dika

Kotel'nyy Island

Taymyr Peninsula

Lake Taymyr

Khatanga Gulf

LAPTEV

Gulf of Olenek

Tostuya

Ust' Olenek

Sag

Ary

Starorybnoye

Khatanga

Saskylakh

Staraya

Sk

Agapa

Volochanka

Boyarka

Kayak

Kotui

+2697

Zhilinda

Ku

G

inka

Noril'sk

Potapovo

+5344

Yessey

Kirbey

Put' Lenina

Chirinda

Olenek



ROV
BASIN

80°

2714

NEW SIBERIAN ISLANDS

De Long Islands

Kotel'nyy

Novaya Sibir' I.

EAST SIBERIAN SEA

ANJOU ISLANDS

1227+

15 Lyakhov Islands

SEA

Cape Borkhaya

Dmitri Laptev Strait

Logashkino

ad
oyka
ovorovo

Tiksi

Kular

Kazach'ye

Chokurdakh

Tenkeli

Nayba

Keriske

Deputatskiy

Ambarc

Natar

Menkere

Zhigansk

Verkhoyansk

Batagay

Ulaga

Cherskiy

Belaya Gora

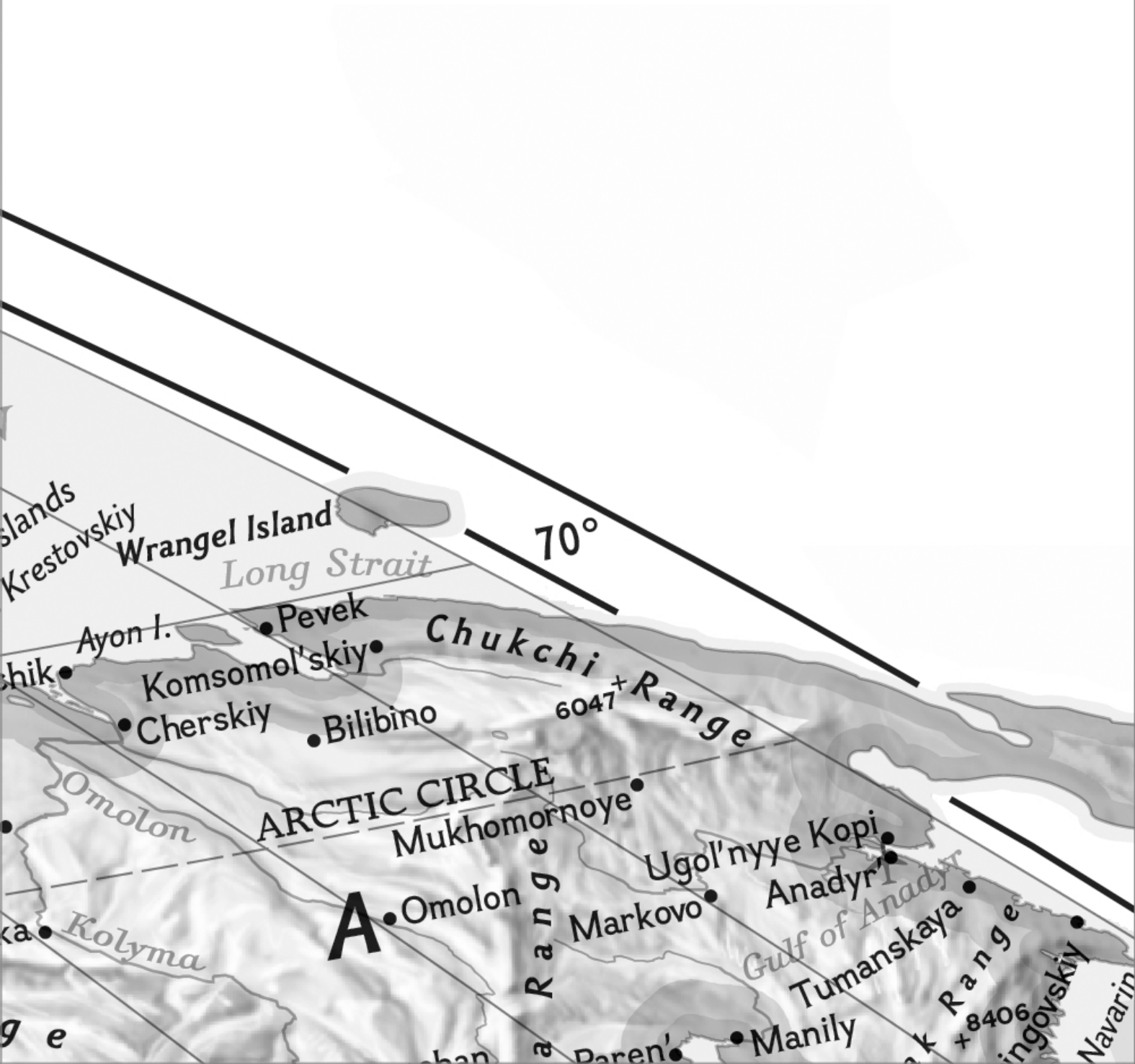
Srednekolymsk

Tyugyuren

Zyryank

El'ginskiy

Ran



15



GEOGRAPHIC COMPARISONS

THE EARTH

AREA

	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

17

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 %



20

60°

St. Matthew I.

BERING SEA

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

ALEUTIAN ISLANDS

3731

Unimak I. 9372+

Unalaska 7050+

Fox Islands

Umnak I.

Is. of Four Mountains

Andreanof Is.

Tanaga I. Kanaga I.
Adak I.

Atka I.

Amlia I.

Seguam I.

Cold Bay

ALEUTIAN TRENCH

NORTHEAST

NORTH



21



22

YUKON

WESTERN TERRITORIES

ALBERTA

SASK.

MANITOBA

BRITISH COLUMBIA

COLUMBIA

MONTANA

N. DAK.

S. DAK.

MINN.

MINNEAPOLIS

WISCONSIN

IDAHO

WYOMING

Dawson • Keno Hill 9685+

• Déline

• Carmacks

• Wrigley

Haines Junction 9000+

• Ft. Simpson

Great Slave Lake

• Reliance • Yellowknife

• Whitehorse

• Watson Lake

• Hay River

• Pine Point

• Rocher River

• Skagway

• Fort Nelson

• Fitzgerald

• Fort Smith

• Uranium City

• Mt. Roosevelt 9751+

• Fort Chipewyan

• Wollaston Lake

• Ware

• Peace River

• Fort McMurray

Reindeer L.

BRITISH COLUMBIA

• Dawson Creek • Grande Prairie

• La Ronge

• Flin Flon

COLUMBIA

ALBERTA

SASK.

MANITOBA

• Mt. Robson 12972+

• Edmonton

• N. Battleford

• The Pas • No

• Kamloops

• Red Deer

• Saskatoon

• Calgary

• Moose Jaw

• Yorkton

• Dauphin

• Medicine Hat

• Jaw

• Regina

Portage la Prairie

• Lethbridge

• Swift Current

• Weyburn

• Brandon

• Winnipeg

• Havre

• Minot

• Grand Forks

• Spokane

MONTANA

N. DAK.

S. DAK.

MINN.

MINNEAPOLIS

WISCONSIN

IDAHO

WYOMING

• Great Falls

• Bismarck

• Fargo

• Duluth

• Missoula

• Helena

• Miles City

• Bemidji

• Fort Fran

• Butte

• Billings

• Aberdeen

• Super

• Borah Peak

• Cody

• Pierre

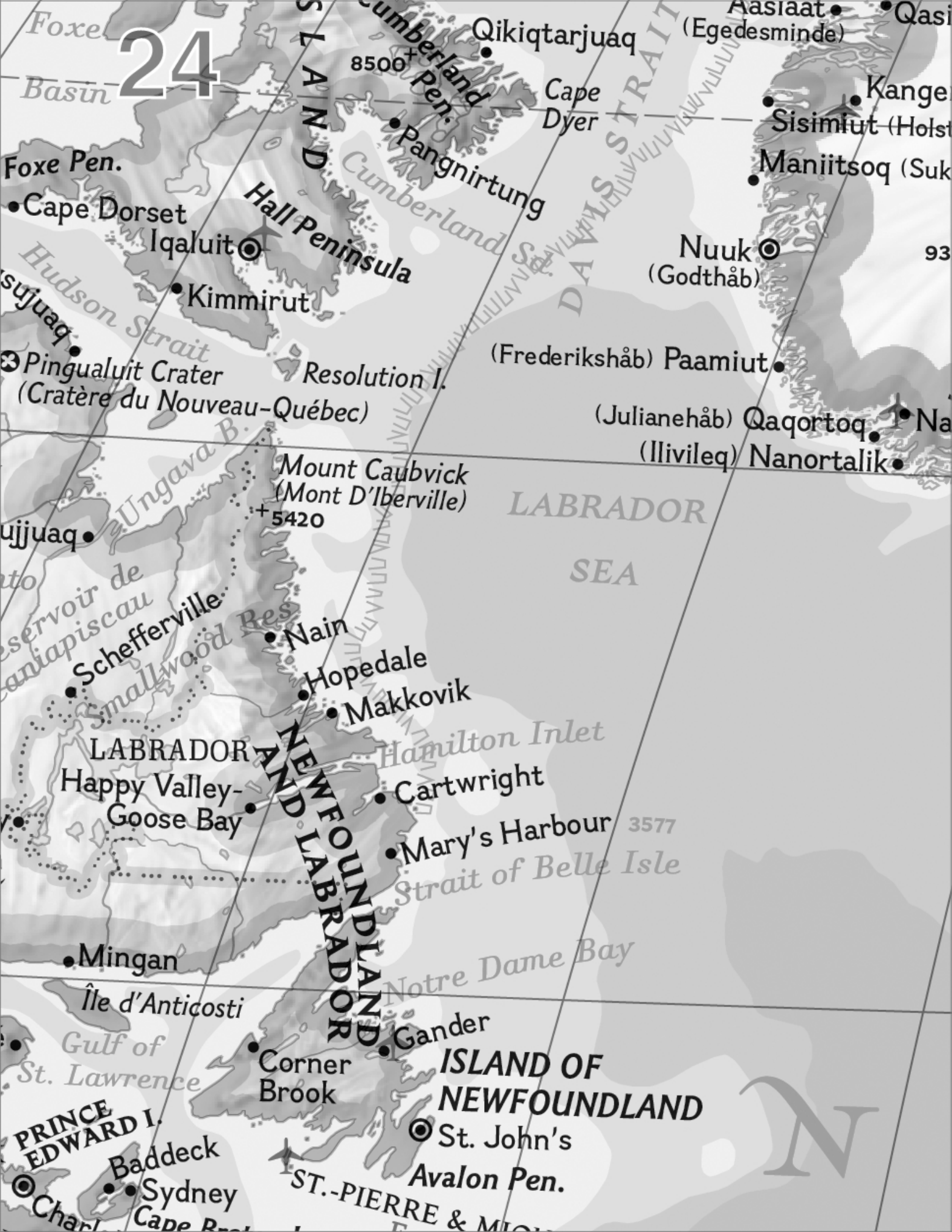
• St. Paul

• Green Ba

• Rapid City



24



Foxe Basin

Foxe Pen.

Cape Dorset

Iqaluit

Kimmirut

Pingualuit Crater

(Cratère du Nouveau-Québec)

Resolution I.

Mount Caubvick

(Mont D'Iberville)

+5420

ujjuaq

Schefferville

Smallwood Res.

Nain

Hopedale

Makkovik

LABRADOR

Happy Valley-

Goose Bay

LABRADOR

Mingan

Île d'Anticosti

Gulf of

St. Lawrence

PRINCE

EDWARD I.

Baddeck

Sydney

Charl

Cape Bro

SLAND

Hall Peninsula

Kimmirut

Resolution I.

Mount Caubvick

(Mont D'Iberville)

+5420

Nain

Hopedale

Makkovik

LABRADOR

Happy Valley-

Goose Bay

LABRADOR

Mingan

Île d'Anticosti

Gulf of

St. Lawrence

PRINCE

EDWARD I.

Baddeck

Sydney

Charl

Cape Bro

Cumberland Pen.

Pangnirtung

Resolution I.

Mount Caubvick

(Mont D'Iberville)

+5420

Nain

Hopedale

Makkovik

LABRADOR

Happy Valley-

Goose Bay

LABRADOR

Qikiqtarjuaq

Cape Dyer

8500+

Pangnirtung

Resolution I.

Mount Caubvick

(Mont D'Iberville)

+5420

Nain

Hopedale

Makkovik

LABRADOR

Happy Valley-

Goose Bay

LABRADOR

Mingan

Île d'Anticosti

Gulf of

St. Lawrence

PRINCE

EDWARD I.

Baddeck

Sydney

Charl

Cape Bro

Aasiaat

(Egedesminde)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qasi

Kange

Sisimiut (Holst)

Maniitsoq (Suk)

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qasi

Kange

Sisimiut (Holst)

Maniitsoq (Suk)

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

Qaqortoq

Nanortalik

Paamiut

Nuuk

(Godthåb)

(Frederikshåb)

(Julianehåb)

(Ilivileq)

LABRADOR SEA

DAVIS STRAIT

NEWFOUNDLAND

ISLAND OF NEWFOUNDLAND

St. John's

Avalon Pen.

ST.-PIERRE & MICHELON







NORWAY

Stockholm

DENMARK

Copenhagen

SEA

NETHERLANDS

Amsterdam

GERMANY

Rotterdam

ENGLAND

Birmingham

London

FRANCE

Paris

BRUSSLS

FRANCE

FRANCE

FRANCE

27



Narvik
Ivalo
Apatity
Kandalaksha
Rovaniemi
Luleå
Skellefteå
Umeå
Östersund
Gävle

WEDEN
köldsvik
svall
er
n

FINLAND
Vaasa
Tampere
Helsinki
Turku

ESTONIA
Tallinn
Tartu

LATVIA
Riga
Liepāja

LITHUANIA
Vilnius
Kaliningrad

POLAND
Gdańsk
Warsaw
Poznań
Łódź
Wrocław
Kraków

CZECH REP.
Prague
Bratislava

SLOVAKIA
Bratislava
Budapest

HUNGARY
Budapest
Zagreb

Peninsula
Umba
Keret'

Belomorsk
Segezha
Kondopoga
Plesetsk
Nyandoma
Konosha

Petrozavodsk
Vyborg
St. Petersburg
Cherepovets
Velikiy Novgorod
Rybinsk
Yaroslavl'

MOSCOW
Vologda
Manturovo
Kozlovskoye
Tver'
Ivanovo
Vladimir
Moscow
Ryazan'

Belarus
Minsk
Bryansk
Homiel'
Kursk
Sumy
Chernobyl'
Zhytomyr

Ukraine
Kiev
Vinnytsya
Dniprodzerzhynsk
Dnipro
Belgorod
Kharkov

Moldova
Chişinău
Mariupol'
Odesa

Romania
Iasi

Russia
Kharlovka
Shoyna
Pen.
Volong
Koyda
Kamenka
Meze
Archangel
Severodvinsk

White Sea
L. Onega
Lake Ladoga



28

R

U

KAZAN

obseda
Indiga
Nar'yan Mar
Yermitsa
Usinsk
Ust' Tsil'ma
Pechora
Selib
Ukhta
Mikun'
Kotlas
Velikiy Ustyug
Syktyvkar
Gayny
Berezniki
Kirov
Nizhniy Novgorod
Yoshkar Ola
Cheboksary
Kazan'
Ufa
Zlatoust
Chelyabinsk
Kurgan
Qostanay
Rüdnyy
Atba
Arqaly
Lake T
Aqtöbe
Khromtaū
Embī
Shalqar
Zhe
Aral
Qazaly
Astrakhan'
Ganyushkino
Atyraū
Elista
Rostov
Volgograd
Akhtubinsk
Krasnoarmeysk
Engels
Saratov
Kamyshin
Togliatti
Sterlitamak
Meleuz
Oral
Orenburg
Magnitogorsk
Orsk
Ural
Ufa
Miass
Zlatoust
Yekaterinburg
Nizhniy Tagil
Irbit
Tavda
Tyumen'
Tobol'sk
Dem'ya
Severoural'sk
Serov
Nadym
Tarko Sale
Krasnoleninskiy
Khanty-Mansiysk
Nyagan'
Sergino
Sherkaly
Polnovat
Igrim
Sos'va
Gora Narodnaya
6217
Inta
Salekhard
Novyy Urengoy
Labytnangi
Novyy Port
Tazo
Khal'mer Yu
Novyy Port



29

Vilyuy Plateau

S

I

S

S

KAZHSTAN

ALTAY

Baykonur

Karamay

Junggar Basin

Shihezi

Üshtëbe

Taldygorgan

Dzungarian Gate

Lake Balkhash

Lake Zaysan

Gora Belukha

Zaysan

Fuhai

Altay

Ölgiy

Ridder

Öskemen

Temirtaū

Astana

Qaraghandy

Qarqaraly

Ayaköz

Balqash

Teli

Gorno

Biysk

Pavlodar

Ekibastuz

Kökshetaū

Turan

Abaza

Kemerovo

Novokuznetsk

Novosibirsk

Omsk

Nizhneudi

Sudzhensk

Anzhero

Tomsk

Bakchar

Shim

Tatarsk

Tara

Kansk

Krasnoyarsk

Yeniseysk

Kolpashevo

Maysk

Katal'ga

Bogucha

Angara

Severo Yeniseyskiy

Osinovo

Lar'yak

Nizhnevartovsk

Mutoray

Kuz'movka

Komsa

Bakhta

Kislokan

Tura

Uchami

Noginsk

Kharampur

Vilyuysk

Nizhnyaya Tunguska

Taz

Noyabr'sk

urgut

fteyugansk

nskoye

k

shim

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engizy

ezdi

Baykonur

Üshtëbe

Taldygorgan



330

Terbyas

Enge

Ust' Ner
Oymyakon
Khandyga
9708

nyshevskiy
servoir

Mirnyy
I

Krestyakh
Orto Surt
Sangar
Verkhnevilyuysk
Namtsy

Yakutsk
A

Ust' Maya
Yugore
El'di

Yerema

Lensk
Olekminsk

Lena
Olekma

Tommot
Aldan
Aldan
Chag

Vitim

Bodaybo

ny

Ust' Ilimsk

Lazareva

Amalyk

Neryungri
Chul'man

Stanovoy R
Tynda

Bratsk

Ust' Kut

Novyy Uoyan

Severobaykal'sk

Skovorodino

ayshet

Zhigalovo

Lake
Baikal

Alla

Bagdarin

Mogocha
Magdagach

nsk

Tulun

Zima

Balagansk

Ust' Barguzin

Romanovka

87

Cheremkhovo

Sibirskoye

Angarsk

Irkutsk

Ulan-Ude

Chita

Sretensk

rsk

Kyzyl

Slyudyanka

Kyakhta

Khilok

Aginskoye

Baley

Olovyannaya

Ivs Nuur

Zakamensk

Sühbaatar

Darhan

Borzya

Manzhouli
Hailan
Yakes

laangom

Mörön

Selenge

Erdenet

Hulun Nur
Choybalsar

iyun

Uliastay +12812

Ulaanbaatar

Arvayheer

Mandalgovī

Saynshand

64

Altay

Bayanhongor +12982

64

64

M

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31

Taskan
Susuman
Gora Mus-Khaya
Sinegor'ye
Omsukchan
6004+

Karamken
Talon
Okhotsk
Ul'ya
Mys Enken
Kekra
Tukchi
Selinde
Ayan

Shantar Is.
+2300
Zey'sk
Chumikan
Zeya
Ushumun
Nikolayevsk na Amure

Lazarev
De Kastri
Svobodnyy
Chegdomyn
Komsomol'sk
na Amure
Blagoveshchensk
Nenjiang
Birobidzhan

Qiqihar
Ulanhot
Daqing
Baicheng
Harbin
Yichun
Hegang
Jiamusi
Shuangyashan
Vyazemskiy
Khabarovsk

DONG BEI
(MANCHURIA)
Changchun
Jilin
Liaoyuan
Xilinhote
6657+

Evensk
Magadan
Siglan
Palana
Ust' Tigil'
Utkholok
Saint Jona I.
Cape Elizabeth
Okha

KAMCHATKA
PENINSULA
Kirovskiy
Nogliki
Aleksandrovsk
Sakhalinskiy
3691+

Vanino
Sovetskaya Gavan'
Yuzhn
Sakha
Kors
Mudanjiang
Ussuriysk
Vladivostok
Nakhodka

Sapporo
Muror

Shelikhov Gulf

Uda Bay

SEA OF OKHOTSK

Greater Khingan Ra.
GOLIA

Lake Khanka

La Perouse

HOKKAID



ape Olyutorskiy
kiy I.

Dzernoy

uchi

Ust' Kamchatsk

84

7e

SK

ero Kuril'sk

alinsk

akov

Str.

akkanai

DO

7513

Asahikawa

Chitose

Hakodate

BERING SEA

Commander Islands

Bering I.

2464+
Mednyy I.

Petropavlovsk
Kamchatskiy

Bol'sheretsk

Cape Lopatka

Paramushir

KURIL ISLANDS

Onkotan

Shiashkotan

Simushir

Urup

4678

Iturup (Etorofu)

5968
Kunashir (Kunashiri)

Shikotan

Kushiro

Asahikawa

Chitose

Hakodate

ALEUTIAN ISLANDS
U.S.

Attu I.

Semisopochnoi I.

Agattu I.

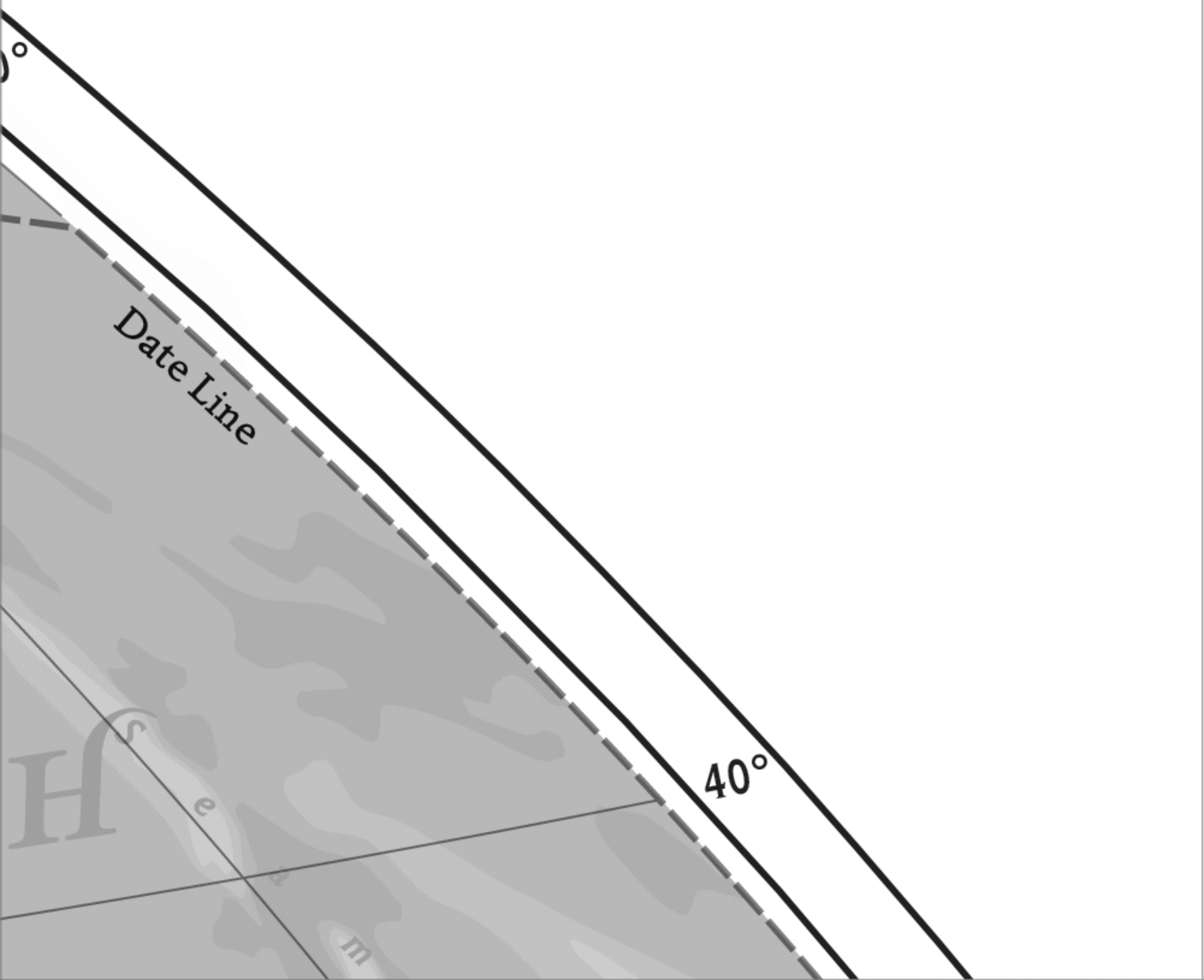
Kiska I.

Near Is.

Rat Is. Amchitka I.

Sunday
Monday

KURIL - KAMCH
E M P E R O R
NORTH



11111