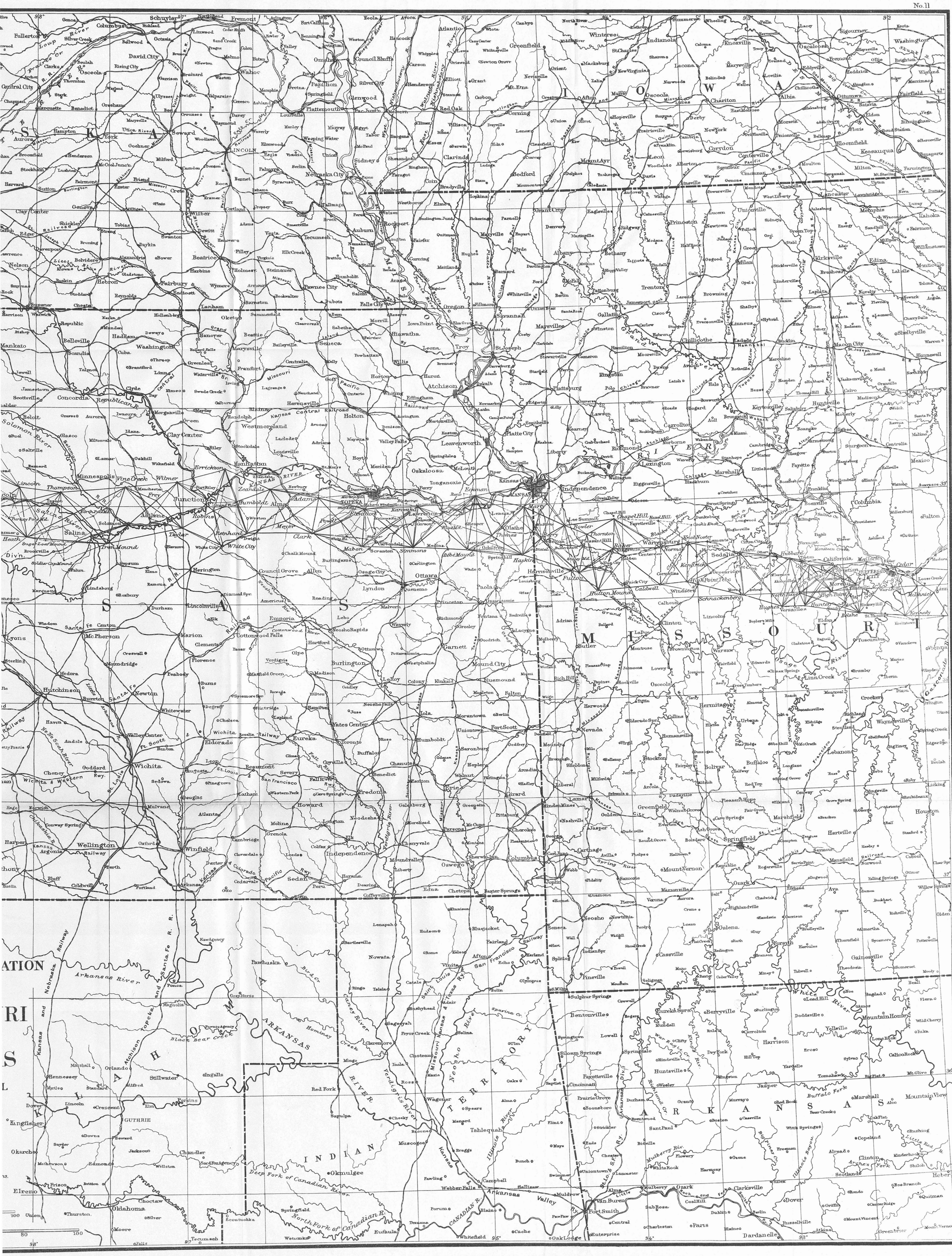
PROGRESS OF THE TRIANGULATION
BETWEEN
EASTERN MISSOURI
AND
WESTERN KANSAS
ALONG OR NEAR THE 39TH PARALLEL
JUNE 30TH 1894

SCALE $\frac{1}{1000000}$

A. signifies Astronomical Azimuth.
L. " " Latitude Stations.
T. " " Longitude " "
" " Lines between occupied Stations.
" " " " and unoccupied Stations.
" " " unoccupied Stations.

Kilometres 20 10 0 20 40 60 80 100
Statute Miles 20 10 0 20 40 60 80 100


98°
97°
96°
95°
94°
93°
92°
41°
40°
39°
38°
37°
36°
KANSAS
NEBRASKA
IOWA
MISSOURI
OKLAHOMA
INDIAN TERRITORY
ARKANSAS
Schuyler
Columbus
Fullerton
Fremont
North Bend
Arlington
Fort Calhoun
Neola
Avoca
Atlantic
Wiota
Canby
North River
Wintersett
Summerset
Wheeling
Pella
Lacey
Sigourney
Keota
Washington
Oskaloosa
Knoxville
Indianola
Greenfield
Loup River
Silver Creek
Bellwood
Octavia
Linwood
Cedar Bluffs
Sand Creek
Ewing
Valley
Benington
Irvington
Weston
Hancock
Cass Center
Middle River
St Charles
Caloma
Tracy
Berrerville
Lacona
Marysville
Eveland
Eddyville
Ollie
Brighton
Wayland
Marriman
Heddrick
Baker
Abingdon
Haysville
Skunk R.
Fremont
Prairie Creek R.R.
Clarks
Beulah
Rising City
David City
Brainard
Garrison
Newton
Malmo
Yutan
Omaha
Council Bluffs
Whipple
Carson
Lewis
Whitneyville
Newton Grove
Orient
Macksburg
Sharon
Lovilia
Albia
Chillicothe
Ottumwa
Pacific R.R.
Osceola
Thornton
Archer
Wayland
Garrison
Weston
Valparaiso
Cresco
Ashland
Papillion
Gretna
Springfield
Portal
Silver City
Henderson
Elliott
Grant
Stennett
Nevinville
Mt. Etna
Zalia
New Virginia
Norwoods
Belinda
Weller
Central City
Chapman
Marquette
Benedict
Gresham
Stark
Ulysses
Dwight
Beaver
Valley
Glenwood
Plattsmouth
Pac. Junc.
Mesvern
Red Oak
Carbon
Creston
Afton
Murray
Lucas
Missouri
Chariton
Eddyville
Chillicothe
Fairfield
Batavia
Rome
Eldon
Birmingham
Vega
Abingdon
Salem
Abington
Eastmelrose
Gilaksburg
Ash Grove
Floris
Donal Station
Bloomfield
Keosauqua
Bonaparte
Mercerville
Milton
Farmington
Mt. Sterling
Arsion
Upton
Neva
Dumas
Lancaster
Lawnbridge
Luray
Memphis
Kahoka
Wyaconda
Energy
Sandhill
Fairmont
Millpoe
Williamstown
Monticello
Edina
Labelle
Kirksville
Brashear
Novelty
Newark
Argola
Plevna
Tulvania
Shelbyville
Warren
Hunnewell
Mason City
Hannibal
Lentner
Jamestown
Scottsville
Concordia
Republican R.
Clyde
Day
Kimeo
Swede Creek
Cawker
Scandia
Cuba
Throop
Brantford
Limo
Talmo
Jewell
Belleville
Republic
Munden
Dewey
Haddam
Hanover
Washington
Ballard Falls
Marysville
Balleyville
Seneca
Centralia
Kelly
Frankfort
Waterville Br.
Irving
Goff
Lagrange
Neuchatel
Ontario
Whiting
Effingham
Railroad
Havensville
Powhattan
Willis
Bremer
Horton
Huron
Atchison
Dekalb
Gower
Plattsburg
Polo
Chicago
Brawner
Latoh
Hale
Hesse
Thomas Hill
Bosworth
Madison
Cairo
Fairie
Keytesville
Salisbury
Huntsville
Moberly
Tulpo
Rarrena
Santa Fe
Welch
Mulinu
Centralia
Sturgeon
Mexico
Auxvasse
Columbia
Fulton
Millersburg
Providence
Ashland
Guthrie
Sidney
Shenandoah
Clarinda
Ladoga
Siam
Mormontown
Bedford
Delphos
Tuskeego
Cledonia
Mount Ayr
Davis
Corydon
Centerville
Seymour
Cincinnati
Moulton
Allerton
Leon
Woodland
Lineville
Genoa
Warren
Powersville
Mendota
Oakville
West Liberty
Andover
Wathena
Elmo
Westboro
Hamburgh
Hopkins
Grant City
Eaglevilles
Princeton
Newtown
Lucern
Unionville
Julesburg
Sidney
Pollock
Green Top
Orel
Stahl
Judson
Osgood
Milan
Sticderville
Landerville
Opel
Laplata
Novelty
Plevna
Tulvania
Shelbyo
Elmer
Adalia
Ethel
Seney
Redman
Newark
Argola
Sue
Locust
Leonard
Cherry Dells
Shelbyville
Warren
Macon City
Hunnewell
Maud
North Rock
Jacksonville
Granville
Cairo
Madison
Fairie
Huntsville
Moberly
Tulpo
Rarrena
Santa Fe
Welch
Mulinu
Centralia
Sturgeon
Mexico
Auxvasse
Columbia
Fulton
Millersburg
Providence
Ashland
Guthrie
Lancaster
Lawnbridge
Luray
Memphis
Kahoka
Wyaconda
Energy
Sandhill
Fairmont
Millpoe
Williamstown
Monticello
Edina
Labelle
Kirksville
Brashear
Novelty
Newark
Argola
Sue
Locust
Leonard
Cherry Dells
Shelbyville
Warren
Macon City
Hunnewell
Maud
North Rock
Jacksonville
Granville
Cairo
Madison
Fairie
Keytesville
Salisbury

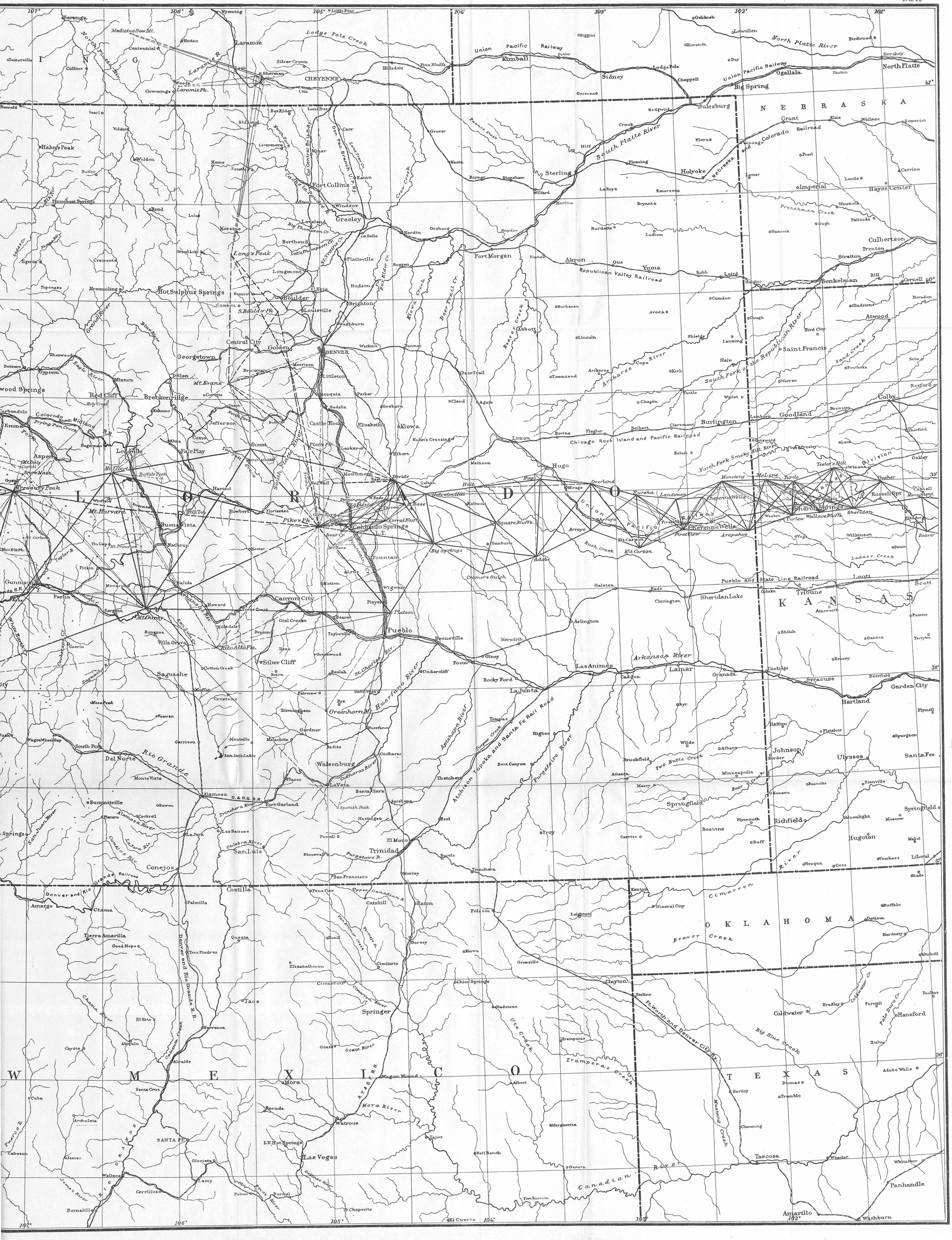
12

PROGRESS OF THE TRIANGULATION
BETWEEN
WESTERN KANSAS
AND
EASTERN UTAH
ALONG OR NEAR THE 39TH PARALLEL
JUNE 30TH 1894
SCALE $\frac{1}{1000000}$

A. signifies Astronomical Azimuth.
L. " " Latitude Stations.
T. " " Longitude.
———— " Lines between occupied Stations.
———— " " " and unoccupied Stations.
– – – – – " " " unoccupied Stations.

Kilometres
20 10 0 20 40 60 80 100

Statute Miles
20 10 0 20 40 60 80 100


107°
106°
105°
104°
103°
102°
101°
41°
40°
39°
38°
37°
36°
Saratoga
Medicine Bow Mt.
North Platte Riv.
Centennial
Batton
Laramie
Wyoming
Little Bear
Lodge Pole Creek
Union Pacific Railway
Kimball
Potter
Higgins
Oshkosh
Lewellen
North Platte River
Birdwood
Hershey
North Platte
Dexterville
Collins
Laramie R.
Leah
Silver Crown
Hillsdale
Pine Bluffs
Sherman
Otto
CHEYENNE
Kowanda
Day
Sidney
Lodgepole
Chappell
Union Pacific Railway
Ogallala
Paxton
Big Spring
Woods
Cummings
Laramie Pk.
Garman
Julesburg
Sedgwick
Honnold
Pearl
Box Elder
Lone Tree
Crook
Grant
Elsie
Wallace
Somerset
St. Cloud
Valdez
Kearney Fork
Carr
Grover
Pawnee Creek
Flora
Colorado and Nebraska Railroad
Hahn's Peak
Livermore
Miner
Hiff
South Platte River
Walden
Home
South Fk.
Keota
Fleming
Holyoke
Nebraska
Pearl
Butler
Col. Central Br. U.P.Ry.
Den. Pac. Branch U.P.Ry.
Eaton
Fort Collins
Cache la Poudre R.
Crow Creek
Raymer
Stoneham
Sterling
Lamar
Carrico
Lucile
Imperial
Hayes Center
Elk R.
Steamboat Springs
Stous
Windsor
Willard
LeRoy
Emerson
Merino
Bryant
Rand
Lulas
Greeley
Loveland
Big Thompson Cr.
Moraine
Waunetta
Prenchman Creek
Pallisade
Hough
Hancock
Culbertson
Trenton
Stratton
Loads Cr.
Yampa R.
Egeria
Grand Lake
Long's Peak
Little Thompson Cr.
St. Vrains Cr.
La Salle
Hardin
Orchard
Snyder
Burdette
Ludlum
Berthoud
Platteville
Roggen
Fort Morgan
Pinneo
Akron
Otis
Yuma
Republican Valley Railroad
Robb
Laird
Haigler
Benkelman
Rill
Cornell
Crescent
Longmont
Toponas
Kremmling
Hot Sulphur Springs
Sunset
Erie
Hudson
Box Elder Cr.
Kiowa Creek
Deer Trail Cr.
Boulder
Brighton
Cambou
S. Boulder Pk.
Louisville
Washburn
Condon
Buchanan
Avoca
Gladstone
Herndon
Atwood
Grand River
Blue River
Central City
Golden
DENVER
Watkins
Bennet
Abbott
Lincoln
Shields
Lansing
Saint Francis
Bird City
Sand Creek
Sherwood
Georgetown
Eagle River
Gypsum
Minturn
Dillon
Mt. Evans
Brookvale
Morrison
Littleton
Deer Trail
Townsend
Arikaree
Cope
Kirk
Hale
South Fork of the Republican River
Warren
Penticka
Scio
Arikaree River
Wood Springs
Red Cliff
Breckenridge
Holy Cross
Kokomo
Corinto
Acequia
Parker
Tuttle
Wallet
Rexford
Colby
Carbondale
Grant
Sedalia
Orsburn
Claud
Agate
Chapin
Colorado Midland R.R.
Emma
Frying Pan Creek
North Fork
Jefferson
Buffalo
Castle Rock
Elizabeth
Kiowa
Lamborn
Goodland
Brewster
Aspen
Hagerman
Alma
Como
Fair Play
Bison
Platte R.
Platte Pk.
Larkspur
Kuhn's Crossing
Limon
Bovina
Flagler
Seibert
Claremont
Burlington
Chicago Rock Island and Pacific Railroad
Churford
Leadville
Mt. Elbert
Mt. Daly
Capitol
Snow Mass
Buffalo Peak
Mountaindale
Tarryall Creek
South Platte River
Elbert
Mattison
Hugo
Beloit
Griswold
Lava
Presley
Oakley
Treasury Peak
Crystal
Winfield
Hartsel
Monument
Divide
Calhan
Holt
Hugo
Overland
Mirage
Monotony
McLane
Turtle
Teeter's Hill
Winona
Division
Gopher
Mt. Harvard
Riverside
Hill Top
Howbert
Florissant
Bed Mill
Easton
Holcomb Hill
Foltwell
Eureka
Landsman
Cheyenne Wells
Pond
Wallace
Russell Spr
Cambell
Monument
Buena Vista
Pike's Pk.
Glen Eyrie
Manitou
Colorado Springs
L.T.
Corral Bluffs
Square Bluffs
Arroyo
First View
Arapahoe
Sharon Springs
Weskan
Curlew
Wallace Bluffs
Sheridan
Elkader
Beaver
Mt. Princeton
Mt. Carbon
Nathrop
Tin Cup
West Elk Pk.
Taylor R.
Fitkin
Mc Rosa
Fountain Cr.
Big Springs
Adobe
Kit Carson
Rush Creek
Wilkinson
Vega
Pence
Ladder Creek
Gunnison
Salida
Monarch
Parlin
Howard
Texas Creek
Canyon City
Pinyon
Wigwam
Hatton
Cramer's Gulch
Galaten
Eads
Pueblo and State Line Railroad
Leoti
Scott
Coloka
Tribune
Sheridan Lake
Chivington
Arlington
Shiloh
Ainsworth
Painter
Pueblo
Taylorville
Beaver
Coal Creek
Hillsdale
Benton
Bonanza
Villa Grove
Rito Alto Pk.
Cuerin
Cochetopa Cr.
Saguache
Saguache R.
Cotton Creek
Silver Cliff
Rosita
Beulah
Greenwood
Ilse
Foster
Olney
Meredith
Las Animas
Arkansas River
Caddoa
Granada
Coolidge
Lamar
Syracuse
Deerfield
Garden City
Hartland
Rocky Ford
Salt Creek
Fairview
Rye
Greenhorn Mt.
Huerfano River
Underciff
La Junta
Ayr
Plymell
Moffat
Crestone
Mesa Peak
Veteran
Birmingham
Huerfano
Timpas
Timpas Creek
Apishapa River
Higbee
Hatton
Fletcher
Spurgeon
Gardner
Malachite
Montville
Garrison
Badito
Wilde
Albany
Johnson
Border
Ulysses
Santa Fee
Wagon Wheel Gap
South Fork
Rio Grande
Del Norte
San Luis Lakes
Walsenburg
Cucharas
Cucharas River
Brookfield
Two Butte Creek
Atchison Topeka and Santa Fe Rail Road
Purgatoire River
Bent Canyon
Thatcher
Placer
La Veta
Atlanta
Minneapolis
Bear Creek
Roanoke
Zionville
Monte Vista
Santa Clara
Maxey
Springfield
Richfield
Springfield
Summitville
Bowen
Alamosa
D. & R.G. R.R.
Trinchera River
Fort Garland
Spanish Peak
Apishapa
Kenantz
Moonlight
Moscow
Cockrell
Platoro
Alamosa River
Hastings
Earl
Plymouth
Bostono
Hugoton
Mabel
San Juan River
La Jara
Los Sauces
Powell
El Moro
Troy
Carrise
Buff
Culebra River
San Luis
Stonewall
Purgatoire R.
Trinidad
Barela
Conejos
Conejos Riv.
Lastara Riv.
Morley
Voorhees
Liberal
Viroqua
Cess
Shade
Grande Railroad
Denver and Rio
San Francisco
Trinchera
Costilla
Pena Flor
Upper Canadian R.
Catskill
Raton
Kenton
Cimarron
Amargo
Palmilla
Mineral City
Buffalo
Chama
Folsom
Leighton
Optima
Tierra Amarilla
Questa
Van Bremer Creek
Vermejo R.
Dorsey
Beaver Creek
Hardesty
Good Hope
Tres Piedras
Ponil
Kiowa
Mitchell
Elizabethtown
Cimilorio
Greenville
Clayton
Tedine
Ft. Worth and Denver City Ry.
Coldwater
Bradley
Farwell
Hansford
Pauline
Palo Duro Cr.
Chama River
Taos
Cimarron
Cimarron River
Springer
Gladstone
Ute Creek
Big Blue Creek
Zulu
El Rito
Barranca
Abiquiu
Ocate
Ocate River
Tramperas
Tramperas Creek
Coyota
Alcalde
Chama River
Rio Grande R.R.
Conejos Creek
Adobe Walls
Albert
Dumas
Hardley
Trumble
Mora
Wagon Mound
A.T. & S.F. R.R.
Mora River
Rocinda
Watrous
Marguerita
Chaming
Tascosa
Wheeler
White Deer
Cuba
Santa Cruz
Archuleta
Puerco R.
Cabezon
Jemez
Tajos
Bell Ranch
Genova
Las Vegas
LV. Hot Springs
Glorieta
Wallace
Lamy
Jemez River
Cerrillos
Fulton
Bernal
Pecos River
Gallinas River
Canadian River
Panhandle
Bernalillo
Chaperito
Fort Bascom
Amarillo
Washburn
NEBRASKA
KANSAS
OKLAHOMA
TEXAS
NEW MEXICO
COLORADO
INDIAN TERR.

PROGRESS OF THE TRIANGULATION
BETWEEN
EASTERN UTAH
AND
WESTERN NEVADA
ALONG OR NEAR THE 39TH PARALLEL
JUNE 30TH 1894
SCALE $\frac{1}{1000000}$

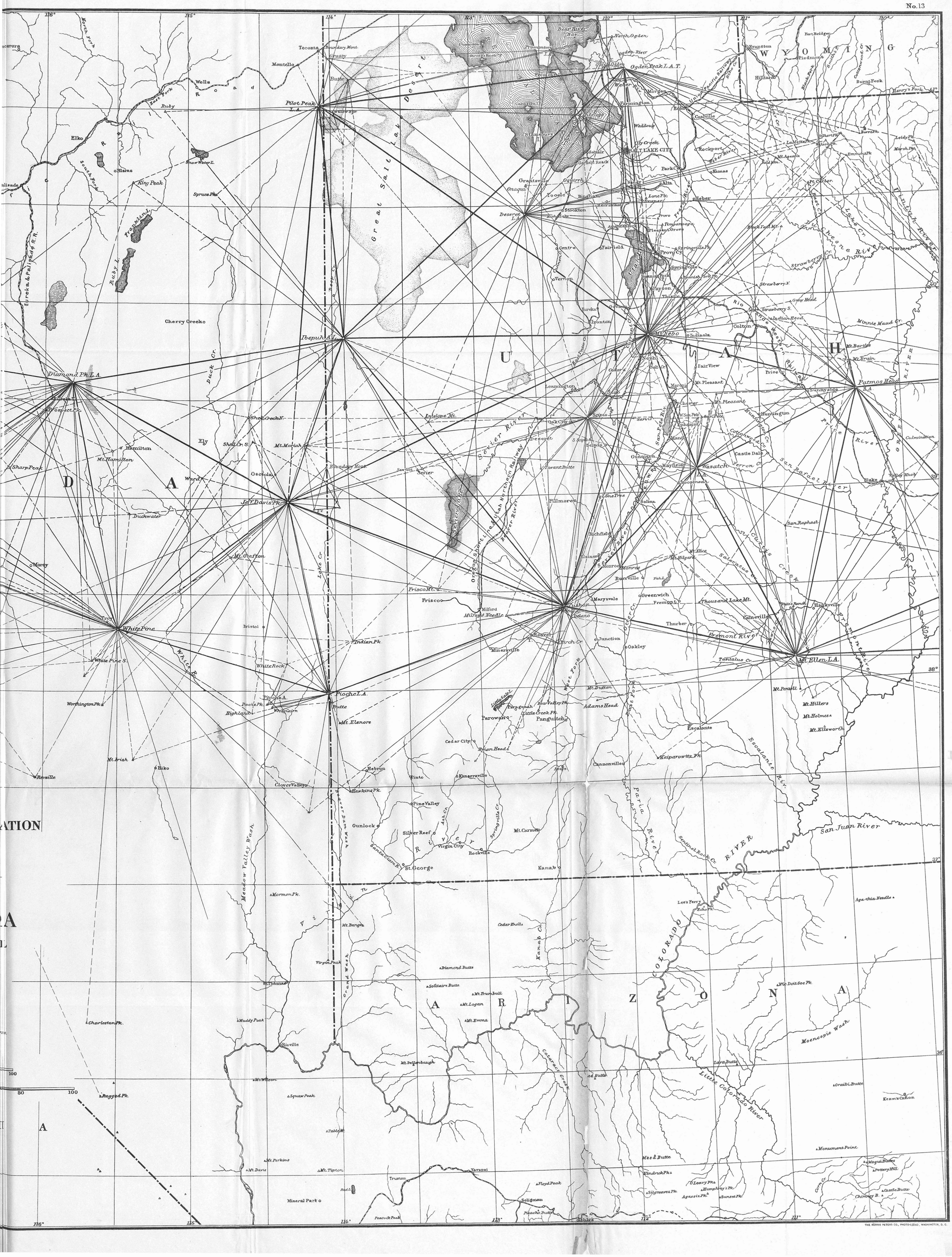
A. signifies Astronomical Azimuth.
L. " " Latitude Stations.
T. " " Longitude. "
——— " Lines between occupied Stations.
——— " " " and unoccupied Stations.
– – – " " unoccupied Stations.

Kilometres
20 10 0 20 40 60 80 100

Statute Miles
20 10 0 20 40 60 80 100

NEVADA
CALIFORNIA
UTAH
ARIZONA

Black Rock Desert
Humboldt R.
Little Humboldt R.
Winnemucca
Southern Pacific R.R.
Rock Cr.
Tuscarora
North Fork
Elko
South Fork
Blaine
Palisade
Battle Mountain
Star Peak
Kumiva
Granite Pk.
Mt. Lewis
Reese River
Nevada Central R.R.
Eureka & Palisade R.R.
Lovelock
Humboldt L.
Humboldt Sink
Carson Sink
Eagle Salt Works
Wadsworth
N. Augusta
Mt. Callahan L.A.
Carson Sink L.A.
Stillwater
Carson River
Mt. Lincoln
Augusta Pk.
Austin
Carson L.
Desatoya
Toiyabe Pk.
Broken Back
Bunker Hill
Kingston
Fairview
Shoshone Pk.
Sharp Peak
Hamilton
Mt. Hamilton
Pilot Pk.
Pilot Cone
Sherman Pk.
Ione
Smoky Valley
Grantville
Wassuck
Paradise Pk.
Toiyabe Dome L.A.
Mt. Jefferson N.
Mt. Jefferson S.
Monitor
Toquema
Hot Creek
Morey
Belmont
Pine Grove
Mt. Grant
Hawthorn
Peak
Cloverdale
Gary's Pk. or Mt. Hull
Volcano
San Antonio
Aurora
Bodie
Candelaria
Lake Mono
Dome Mt.
Kawich
Montezuma
White Mtn. N.
White Mtn. S.
Reveille
Crescent Pk.
Owen's River
Mt. King
Independence
Mt. Tyndall
Mt. Williamson
Mt. Whitney
Mt. Corcoran
Keeler
Owen's L.
Mancha Peak
Porterville
Kern River
Pahute Pk.
Lyon
Worthington Pk.
White Pine S.
White Pine
Troy
Roberts Cr.
Cherry Creek
Duck Cr.
Diamond Pk. L.A.
Prospect Pk.
Ruby
East Fork
Wells
Road
Ruby L.
Promontory
Snow Water L.
Spruce Pks.
King Peak
Tecoma
Boundary Mont.
Grassy
Montello
Butte
Willow Spr.
Deep Cr.
Great Salt Lake Desert
Gunnison I.
Strong's Knob
Deseret L.A.
Ibapuh L.A.
Ely
Shell Cr. S.
Shell Creek N.
Mt. Moriah
Antelope Mt.
Boundary Mont.
Osceola
Ward
Jeff. Davis Pk.
Duckwater
Mt. Grafton
Lake Cr.
Sawtooth
Sevier
Sevier River
Oregon Short Line & Utah Northern Railway
Beaver River
Frisco Mt.
Frisco
Milford
Milford Needle
Indian Pk.
Minersville
White Rock
Bristol
Piochel L.A.
Pioche
Pioche Pk.
White Cairn
Highland
Butte
Mt. Elenore
Parowan
Cedar City
Brian Head
Hebron
Pinto
Kanarraville
Clover Valley
Hawkins Pk.
Pine Valley
Gunlock
Silver Reef
Ash Cr.
Springville Cr.
Virgin City
Rockville
Santa Clara R.
St. George
Beaver Dam Wash
Meadow Valley Wash
Mormon Pk.
Mt. Barges
Virgin Peak
Grand Wash
St. Thomas
Diamond Butte
Solitaire Butte
Mt. Trumbull
Mt. Logan
Mt. Emma
Muddy Peak
Riuville
Mt. Dellenbaugh
Mt. Wilson
Squaw Peak
Table Mt.
Mt. Perkins
Mt. Davis
Mt. Tipton
Truxton
Yarapai
Red L.
Mineral Park
Peacock Peak
Charleston Pk.
Ragged Pk.



THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

125° 124° 123° 122° 121° 120° 119°

41° 40° 39° 38° 37° 36°

PACIFIC OCEAN

NEVADA

CALIFORNIA

Trinidad Head
Trinidad Mt.
Elwet Mt.
Elk Prairie
Arcata
Eureka
Mad Riv. Summit
CAPE MENDOCINO
Pt. Gorda
Bear Ridge
Van Duzen Fork
Mad River
Redwood Creek
Trinidad River
Klamath River
Salmon R.
Mt. Lassic
South Fork Trinity R.
Eel River
Mattole R.
King Peak
Chemise Mt.
Usal Mt.
Iron Mt.
Cahto
Kibesillah
Sanhedrin
Noyo River
Great Gaspar
Two Rock
Mendocino City
Navarro R.
Albion R.
Ukiah
Fisher
Dunn
Gold Spring
Pt. Arena Lt.
PT. ARENA
Sanel Mt.
Watalla Mt.
Clverdale
Sulphur Peak
Watalla R.
Ross Mt.
Duncan Mills
Russian R.
Santa Rosa
Bodega
Sonoma Mt.
Petaluma
Tomales Bay
Lakeville
Napa City
Fairfield
Sonoma Creek
Valleje
Benicia
San Pablo B.
Martinez
POINT REYES
Pt. Reyes Light
San Rafael
Mt. Tamalpais
Farallon Light
Rocky Mound
Oakland
SAN FRANCISCO
SAN FRANCISCO BAY
Red Hill
Ridge
Redwood City
Pine Hill
Sierra Morena
Santa Clara
Sanders
Black Mt.
Pt. Año Nuevo
Loma Prieta
Santa Cruz
Watsonville
Pajaro R.
San Juan
Hollister
Tres Pinos
Castroville
Gavilan
Fremont Peak
Salinas
Pt. Pinos Light
Pt. Pinos
Monterey
Mt. Toro
Soledad
Chalone Peak
SE. Peak
San Benito Pk.
Mt. Carmel
PT. SUR
Pico Blanco
Hepsedam
Center Peak
Santa Lucia
Rock Slide
Rocky Crest
Barren Ridges
Cone Peak
San Antonio Riv.
Salinas River
Silver Peak
Castle Mt.
to Mt. Whitney
Estrella
Piedras Blancas Lt.
Rocky Butte
Santa Margarita
Chicheo
Hollister Peak
San Luis Obispo
San Jose Dome Mt.
Mt. Diablo
Mt. Shasta
Lassens Butte
Red Bluff
Tehama
Mt. Linn
Scott Mt.
Weaverville
North Fork Trinity River
Trinity Mts.
Shasta
Redding
Alturas
Susanville
Pitt River
Goose Lake
Honey Lake
N. & C. R. R.
Pyramid Lake
Mud Lake
Black Rock Desert
Peak
Kumiva
Kumiva
Winnemucca Lake
Mucca
Eagle Salt Works
Yah Rah
Virginia
Pond Swamp
Pitt River
Oroville
Willow
Chico
Oriental
Quincy
Downieville
Downieville Butte
Feather R.
Yuba River
Yuba
Castle Pk.
Summit
Washoe Head Peak
Mt. Davidson
Rose Knob
Washoe City
Virginia City
Carson River
Dayton
House
Carson City
Sage
Nevada City
Cisco Ridge
Observatory Hill
Tahoe City
Marysville Butte
Yuba City
Marysville
Colusa
Colfax
Middle Fork
Deadman Pt.
Genoa Peak
Genoa
Rubicon Pt.
Folsom Peak
Azimuth Marker
Tallac Peak
Mt. Como
Pilot
Saddle
Auburn
Feely Peak
Placerville
Roseville
Fine Hill
Shingle Springs
Woodland
Madison
N. W. Base
Mondocello
Capitol
Davisville
S. E. Base
Sacramento
Dixon
Vaca
Cache Creek
Putah Creek
Cosumnes River
South Fork
Cary's Peak
Markleeville
Round Top
Silver Mountain
Silver Mtn.
Pine Grove
Wassuck
Mt. Grant
Sweet Water Mts.
Stanislaus Pk.
Corys Pk.
West Walker R.
Walker R.
Aurora
Bridgeport
Bodie
Peak
Castle Pk.
Lake Manor
Mt. Conness
Mt. Dana
Mt. Hoffman
Cathedral Pk.
Mt. Lyell
Mt. Clark
Sonora
Milton
Stockton
Lathrop
Oak Dale
Tracy
Modesto
Tuolumne River
San Joaquin River
Merced River
Mariposa
Merced
Mariposa River
Raymond
Los Banos
Berenda
Fresno
San Joaquin Irrigating Canal
Tulare Lake Irrigating Canal
Mendota
San Joaquin River
Kings River
Kings R. Slough
S. P. R. R.
Lodi
Wallace
San Andreas
Bear Mt.
Calaveras River
Mokelumne River
Jackson
Ione
Galt
Denverton
Fairfield
Lakeville
Sonoma Creek
Petaluma
Santa Rosa
Napa R.
St. Helena
Mt. Helena
Sulphur Peak
Madison
Woodland
Roseville
Placerville
Fine Hill
Shingle Springs
Round Top
Silver Mountain
Pine Grove
Markleeville
Cary's Peak
Wassuck
Mt. Grant
Sweet Water Mts.
Corys Pk.
Stanislaus Pk.
Aurora
Bridgeport
Bodie

UNITED STATES

COAST AND GEODETIC SURVEY

TRIANGULATION

Scale $\frac{1}{1000000}$

Kilometres

0 4 8 10 20 30 40 50 60 70 80 90 100

Statute Miles

10 8 6 4 2 0 10 20 30 35 50 60 70

NOTE

——————— Signifies lines between occupied Stations

— — — — — — ..... and unoccupied Stations

— — — — — — ..... unoccupied Stations

PACIFIC OCEAN

SAN FRANCISCO BAY

SAN PABLO BAY

SUISUN BAY

BAY OF MONTEREY

SANTA BARBARA CHANNEL

Cahto
Kibesillah
Sanhedrin
Willow
Oroville
Downieville
Downieville Butte
Pond Summit
Pelgine
Verdi
Soyo River
Great Gaspar
Two Rock
Snow Mt. W.
Snow Mt. E.
Mendocino City
Navarro R.
Albion R.
Colusa
Marysville Butte
Yuba City
Marysville
Nevada City
Castle Pk.
Summit
Washoe
Rose Peak
Rose Knob
Mt. Davidson
Washoe City
Virginia City
Carson River
Dayton
House
Carson City
Sage
Cisco Ridge
Observatory Hill
Tahoe
Lake Tahoe
C. P. R. R.
Deadman Pk.
Genoa Peak
Genoa
Mt. Como
Rubicon Pk.
Rubicon Peak
Azimuth Marks
Tallac Peak
Saddle
Pinte
Wassuck
Pine Grove
Silver Mountain
Silver Mts.
Mt. Grant
Sweet Water Mts.
Corys Pk.
Stanislaus Pk.
Aurora
Bridgeport
Bodie
Peak
Castle Pk.
Leake Mount
Mt. Conness
Mt. Dana
Mt. Hoffman
Cathedral Pk.
Mt. Lyell
Mt. Clark
Fisher
Dunn
Clark
Cold Spring
Lakeport
Ukiah
Paxton
PT. ARENA
Pt. Arena Lt.
Sanel Mt.
Walalla Mt.
Cloverdale
Sulphur Peak
Mt. Helena
Wallalla R.
Russian R.
Ross Mt.
Duncans Mills
Santa Rosa
St. Helena
Napa R.
Bodega
Sonoma Mt.
Petaluma
Tomales Bay
Lakeville
Sonoma Ck.
Vallejo
Benicia
Martinez
POINT REYES
Pt. Reyes Light
San Rafael
Mt. Tamalpais
Farallon Light
SAN FRANCISCO
Rocky Mound
Oakland
Mt. Diablo
Colfax
Auburn
Roseville
Placerville
Pine Hill
Shingle Springs
Round Top
Cache Creek
Madison
Woodland
Monticello
N. E. Base
S. E. Base
YOLO BASE
Capitol
Sacramento
Davisville
Dixon
Vaca
Fairfield
Suisun
Denverton
Galt
Lodi
Jackson
Ione
Wallace
San Andreas
Bear Mt.
Milton
Stockton
Sonora
Lathrop
Oak Dale
Tracy
Modesto
Tuolumne River
Merced River
Mariposa
Crows Landing
Merced
Raymond
Mariposa River
Los Banos
Berenda
Fresno
San Joaquin River
San Joaquin Irrigating Canal
Tulare Lake Irrigating Canal
Kings River
Kings River Slough
Armona
Goshen
Visalia
Huron
Portersville
Tulare Lake
Tulare River
Kern River Slough
Bakersfield
Kern R.
Buena Vista L.
Kern L.
Mt. Diablo Base
Red Hill
Redwood City
Ridge
Pico Hill
Sierra Morena
Mocho
Santa Clara
San Jose
Black Mt.
Masters H.
East Peak
Mt. Hamilton Obsy.
Guadalupe R.
Pt. Año Nuevo
Lomo Prieta
Murphy
Gilroy
Pacheco Pk.
Santa Cruz
Watsonville
Pajaro R.
Pajaro
San Juan
Hollister
Santa Ana
Castroville
Gavilan
Fremont Peak
Salinas
Tres Pinos
Pt. Pinos Light
Pt. Pinos
Monterey
Mt. Toro
Soledad
Chalone Peak
S. E. Peak
Mt. Carmel
PT. SUR
Pico Blanco
San Benito Pk.
Hepsedam
Center Peak
Rocky Crest
Barren Ridges
Rock Slides
Santa Lucia
Cone Peak
San Antonio Riv.
Salinas River
Castle Mt.
to Mt. Whitney
Silver Peak
Piedras Blancas Lt.
Rocky Butte
Estrella
San Juan River
Santa Margarita
Chicheo
Hollister Peak
San Luis Obispo
San Jose
Dome Mt.
Pt. Buchon
San Luis Obispo
San Luis
Saddle Peak
Santa Maria River
Mt. Robelas
Guayama
Pt. Sal
Lospe
Tepusquet
Sisquoc River
Sisquoc
Saca Peak
Santa Cruz
San Rafael Mt.
Pt. Arguello
Arguello
Santa Ynez River
Santa Ynez
Gaviota
PT. CONCEPTION
Santa Barbara
Santa Clara
San Buenaventura
Concejo
Pt. Hueneme
Laguna
Richardson Rock
Wilsons Rock
Santa Cruz W.
Santa Cruz E.
Castle Rock
New San Miguel
Anacapa
San Miguel I.
Harrel
Santa Cruz I.
Santa Rosa I.
Santa Barbara I.
Begg Rock
San Nicolas
San Nicolas I.

PLATE No. 573

No. 15.

UNITED STATES COAST AND GEODETIC SURVEY

Sketch

SHOWING THE PROGRESS OF THE SURVEY

IN

SECTION No. XI

(Upper Sheet)

FROM TILLAMOOK BAY TO THE BOUNDARY

Scale: 600,000

June 30 1894.

NOTES

A. Signifies Astronomical Station.
M. ..do.. Magnetic ..do..
T. ..do.. Tidal ..do..
C. ..do.. Current ..do..
..do.. Lines between Primary occupied Stations
..do. ..do. ..do. ..do. ..do. ..and unoccupied Stations
..do. ..do. ..do. ..do. ..unoccupied Stations
..do. ..do. ..do. Secondary occupied Stations
..do. ..do. ..do. ..do. ..do. ..and unoccupied Stations
..do. ..do. ..do. ..do. ..unoccupied Stations
..do. ..do. ..do. Tertiary occupied Stations
..do. ..do. ..do. ..do. ..and unoccupied Stations
..do. ..do. ..do. ..do. ..unoccupied Stations
..do. Limits of Topographic Sheets
..do. ..do. Hydrographic Sheets
Vertical figures designate the number of Topographic Sheets
Inclined ..do. ..do. ..do. Hydrographic Sheets
The dotted shore line is unsurveyed.

Statute Miles

Kilometres

Note. One kilometre or 1000 metres = 3280.83 ft. = ⅝ of a statute mile nearly. One statute mile = 1609.35 metres

Re-survey of Seattle in 1896 Topl. Sheet No. 1750

Re-survey of Tacoma in 1896 Topl. Sheet No. 1748 in 1892 Topl. Sheet No.

THE NORRIS PETERS CO. LITHO., WASHINGTON, D. C.

16

UNITED STATES
COAST AND GEODETIC SURVEY

SKETCH SHOWING
EXTENSION OF TRIANGULATION FROM
ATLANTA BASE
TO THE
GULF OF MEXICO

Scale $\frac{1}{1000000}$

June 30, 1894

Kilometres 8 4 0 10 20 30 40 50 60 70 80 90 100

Statute Miles 10 8 6 4 2 0 10 20 30 40 50 60 70

SKETCH OF
TRIANGULATION IN
EASTERN TENNESSEE

Scale $\frac{1}{1000000}$

June 30, 1894

THE NORRIS PETERS CO., LITHO., WASHINGTON, D. C.

17

30′ 88°00′ 30′ 87°00′ 30′ 40°00′ 30°30′

NOTE

A. Signifies Astronomical Station
M. do. Magnetic do.
T. do. Tidal do.
X. do. Current do.
——— do. Lines between Secondary occupied Stations
– – – – do. do. do. do. do. and unoccupied Stations
——— do. do. do. Tertiary occupied Stations
– – – – do. do. do. do. do. and unoccupied Stations
..... do. Limits of Topographic Sheets
..... do. do. Hydrographic Sheets
Vertical figures designate the number of Topographic Sheets
Inclined do. do. do. Hydrographic Sheets
The dotted shore line is unsurveyed

UNITED STATES
COAST AND GEODETIC SURVEY
PROGRESS OF THE SURVEYS AND RESURVEYS
ON THE
GULF COAST OF FLORIDA AND ALABAMA

Scale $\frac{1}{600\,000}$

June 30, 1894

Kilometres 10 5 0 10 20 30 40 50 60 70

Statute Miles 4 3 2 1 0 5 10 15 20 25 30 35 40 45 50

ALABAMA

FLORIDA

MISSISSIPPI SOUND

PENSACOLA BAY

SANTA ROSA SOUND

Alabama R. Tombigbee R. Mobile River Tensaw R. Spanish River Escambia R. Blackwater R. Yellow Water R. Pensacola Bay East Bay Santa Rosa Sound

Mt. Vernon Lt. 32 Mile Bluff 21 Mile Bluff Cold Creek Stockton Dean Minette Spring Hill Mobile Daphne Ragged Pt. Alabama City Dog River Pt. Fowl R. Pt. Mollet Pt. Fish River Cypress Pt. Little Pt. Clear Shellbank Bayou Bon Secours Bay St. Elmo Fort Morgan Sand I. Gulf Shore Milton Dover Mill Turtle Pt. Wards Basin Yellow Waters Bayou Texar Pensacola Navy Yard Fort Pickens Santa Rosa Gulf Shore

18

TRIANGULATION IN WISCONSIN AND MINNESOTA

Scale. $1\frac{1}{000\,000}$

June 30th. 1894.

The Lake Survey Triangulation is shown by dotted lines.

A. Signifies Astronomical Station.
M.....do.....Magnetic.....do.....

Statute Miles.
10 8 6 4 2 0 10 20 30 40

Kilometres.
10 5 0 10 20 30 40 50

MINNESOTA

IOWA

WISCONSIN

LAKE MICHIGAN

Fourth Principal Meridian. G.L.S.

First Correction Line G.L.S.

Mississippi R.

Wisconsin River

Black R.

La Crosse R.

Chippewa R.

Lake Pepin

St. Croix R.

Fox River

Baraboo R.

Rock R.

Mound View
A. 1873, 1887 & 1891
M. 1887 & 1891
A. 1873
M. 1887
M. Base
Ramsey
Hopkins
Minneapolis
St. Paul
Woodbury
Afton
Washburn
Home
S. Place
Wallace
Ft. Snelling
Minnehaha
Marcotte
Prescott
Buck Hill
Rosemount
Hastings
Ellsworth
Lime Tp.
Diamond Bluff
Hampton
Stone Tree
Yasa
Maiden Rock
Red Wing
Cannon Falls
Vasa
Stockholm
Maxville
Goodhue
Lake City
Wabasha
Lake City
Alma
Glencoe
Watopa
Mount Vernon
Winona
Brown
Kings Bluff
Trempealeau
Wilson
Sugar Loaf
La Crosse
Sparta
New Hartford
Freon
La Crosse
A. 1873.
M. 1877.
St. Josephs Ch.
Brownsville
Black River Falls
Manchester
Haystack No. 2
Castle Rock No. 2
Tunnel City
Tomah
Winrow Bluff
Tunnel No. 3
Rocky Run
Rudolph
Grand Rapids
North Bluff
Mosquito Mt.
Bear Bluff
Dorro Couche Mound
Necedah
Roche à Cris Bluff
Friendship
Bald Bluff
Rellview
Castle Rock
Mauston
Sheep Pasture Bluff
Montello
Observatory Hill
Kilroy
Portage City
Baraboo
Freedom Ridge
Devils Lake
Fitz Simmons A. 1887
Gibraltar
Arlington
Courtland
Minnesota Junct.
Horicon
Woodland
Bristol Ct.
Lowell
Lebanon
Erin
Windsor
Sun Prairie
Watertown
Springfield
Insane Asylum
Burke
Medina
New Lisbon
Brookfield
Pt. Judas
Big Hollow
W. Base
Muscoda
Merid. Sta. No. 2
Bluff A. 1875
Blue A. 1875
Pine Knoll
Boscobel
Highland
Prairie du Chien
Woodman
Orchard
Crooked Cr. Sta.
Highland Ch.
Wyoming
Prison Hill
Ora Oak Bluff
Fennimore
Mt. Ida
Beetown
Platteville
Platte Md.
Merid. Sta. No. 1
Sherrill Mt.
Dubuque
Dunleith
Sinsinawa Md.
Gratiot Grove
A. 1880
Horseshoe Md.
Wadam Grove
Blue Mounds
Harker
Dodgeville
Mineral Pt.
Waldwick
Fayette
Washington
Cadix
Monroe Churches
Plymouth
Newark
State Line
Beloit
Beloit
Clinton
Clinton
Genoa
Quality Hill
Antioch
Beacon
Delafield
Milwaukee
M. 1888
New Berlin
Oakland
Pleasant Springs
Eagle
Whitewater
Bald Bluff
Waterford
Caledonia
Racine
Union
Milton
Janesville
Magnolia
Harmony
Mt. Pleasant
Elkhorn
Burlington
Dover
Somers
Kenosha
Bristol
Geneva
Geneva
Yorkville
Eldorado
Taxcheedah
Springvale
W. Base
E. Base
Oakfield
Waupun
Oshkosh
Stockbridge
Manitowoc
Sheboygan
MADISON
A. 1873 & 1886
M. 1876 & 1886
Ast. Sta.
Monona
Mc. Farland
Fitchburg
Insane Asylum
Burke
Pine Knoll
Bluff A. 1875
Blue A. 1875
Muscoda
Merid. Sta. No. 2
Platte Md.
Merid. Sta. No. 1
Gratiot Grove
A. 1880
Sinsinawa Md.
Horseshoe Md.
Wadam Grove
Yorkville
Eldorado
Taxcheedah
Springvale
W. Base
E. Base
Oakfield
Waupun
Oshkosh
Stockbridge
Manitowoc
Sheboygan
Eagle
Whitewater
Bald Bluff
Waterford
Caledonia
Racine
Union
Milton
Janesville
Magnolia
Harmony
Mt. Pleasant
Elkhorn
Burlington
Dover
Somers
Kenosha
Bristol
Geneva
Geneva
Yorkville
Delafield
Milwaukee
M. 1888
New Berlin
Oakland
Pleasant Springs
Brookfield
New Lisbon
Erin
Windsor
Sun Prairie
Watertown
Springfield
Insane Asylum
Burke
Medina
Bristol Ct.
Lowell
Lebanon
Courtland
Minnesota Junct.
Horicon
Woodland
Portage City
Baraboo
Freedom Ridge
Devils Lake
Fitz Simmons A. 1887
Gibraltar
Arlington
Rocky Run
Rudolph
Grand Rapids
North Bluff
Mosquito Mt.
Bear Bluff
Dorro Couche Mound
Necedah
Roche à Cris Bluff
Friendship
Bald Bluff
Rellview
Castle Rock
Mauston
Sheep Pasture Bluff
Montello
Observatory Hill
Fox River
Black River Falls
Manchester
Haystack No. 2
Castle Rock No. 2
Tunnel City
Tomah
Winrow Bluff
Tunnel No. 3
Kings Bluff
Trempealeau
Wilson
Sugar Loaf
La Crosse
Sparta
New Hartford
Freon
La Crosse
A. 1873.
M. 1877.
St. Josephs Ch.
Brownsville
Alma
Glencoe
Watopa
Mount Vernon
Winona
Maiden Rock
Red Wing
Cannon Falls
Vasa
Stockholm
Maxville
Goodhue
Lake City
Wabasha
Lake City
Yasa
Hampton
Stone Tree
Lime Tp.
Diamond Bluff
Ellsworth
Prescott
Buck Hill
Rosemount
Hastings
Marcotte
Minnehaha
Washburn
Home
S. Place
Wallace
Ft. Snelling
Hopkins
Minneapolis
St. Paul
Woodbury
Afton
St. Croix R.
Mound View
A. 1873, 1887 & 1891
M. 1887 & 1891
A. 1873
M. 1887
M. Base
Ramsey

19

SKETCH SHOWING

RECONNAISSANCE FOR TRIANGULATION

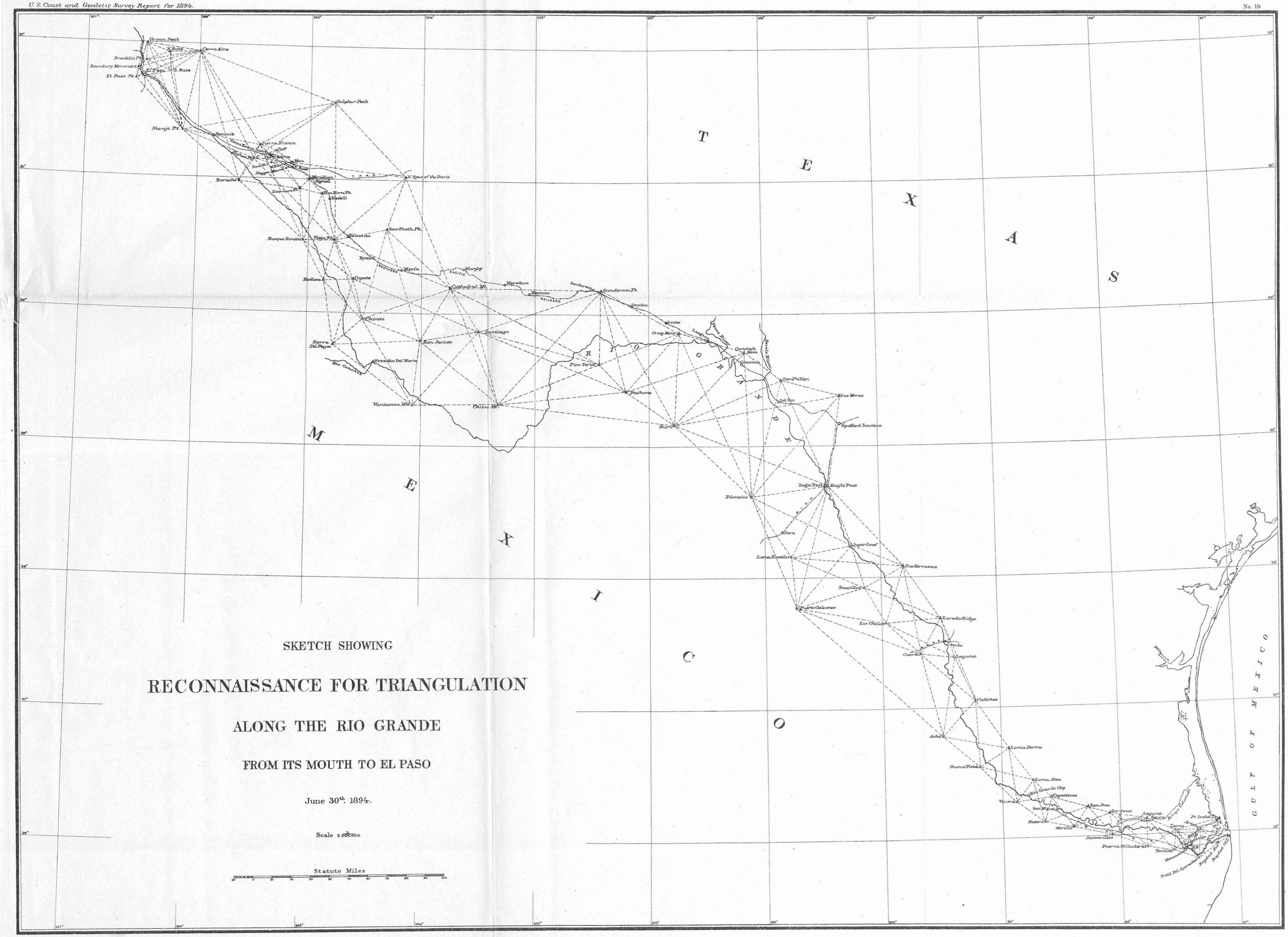
ALONG THE RIO GRANDE

FROM ITS MOUTH TO EL PASO

June 30th. 1894.

Scale 1/2,000,000

Statute Miles



20

Distribution of the principal astronomic stations occupied by the U.S. Coast and Geodetic Survey for Latitude, Longitude and Azimuth to June 30, 1894.

U. S. Coast and Geodetic Survey

T. C. Mendenhall, Superintendent

BASE MAP OF THE UNITED STATES

(Projected on intersecting cone)

Scale 1:7000000

1894.

Statute Miles 0 50 100 200 300 400

Kilometres 0 50 100 200 300 400 500 600 700 800

Explanation of Signs:
- Latitude Stations
- Longitude "
- Azimuth "
- Combination Stations with open dots for the year 1894 to 1894.

West from Greenwich

Computing Division
Feb 1896

THE NORRIS PETERS CO. LITHO. WASHINGTON, D. C.