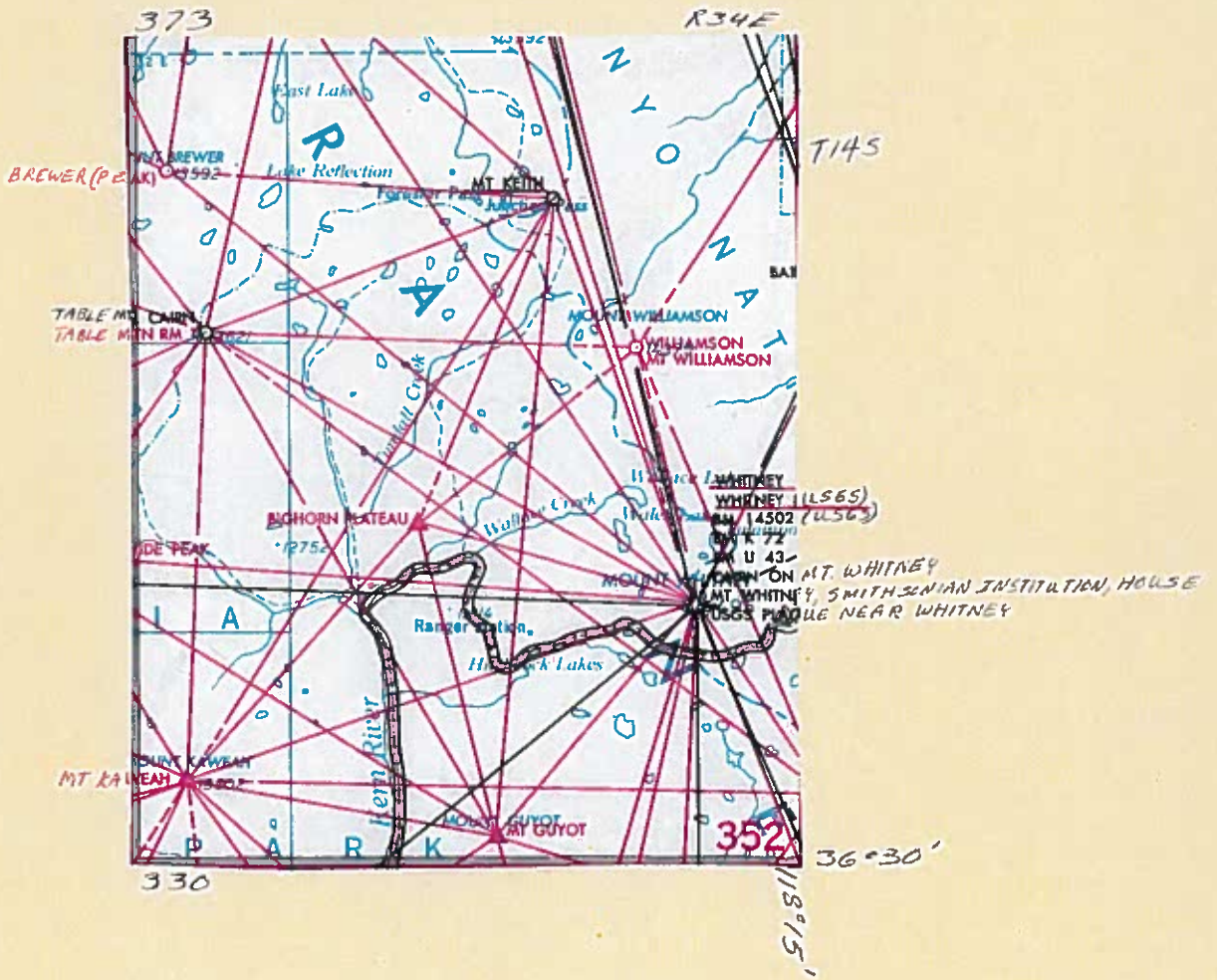


36° 30'  
118 15



36°30'  
118°15'

CALIFORNIA

352

Index

<u>Station</u>	<u>Project</u>
Bighorn Plateau	Kern-Whitney
S Brewer ✓	High Sierra Revision
S Kaweah Mtn.	High Sierra Revision
Mt. Guyot	Kern-Whitney
Mt. Kaweah	Kern-Whitney
Mt. Keith	Kern-Whitney
S Mt. Williamson	Kern-Whitney
Table Mtn. Rm 1 1956 ✓	Kern-Whitney
Whitney	Kern-Whitney & High Sierra Rev.

Kern-Whitney Project Master in CALIFORNIA 283 - Book: PH 482  
High Sierra Revision Project Master in CALIFORNIA 211 - Book: A 218-34  
2785, 88-91

California (352)

Tulare County

BIGHORN PLATEAU

1927 N.A.D. (Adj., 1960)

E. J. Kurowski, 1956

Book: PH 482

Located about 19.0 mi. SW. of Independence, 18.0 mi. W. of Lone Pine; 6 mi. WNW. of Mt. Whitney; on a low bald rocky top.

Station reached by helicopter. Can be reached by horses from the John Muir Trail.

Station mark: Standard tablet stamped "BIGHORN PLATEAU 1956" cemented in bedrock.

Reference mark No. 1: Standard reference mark tablet stamped "NO 1 1956" cemented in boulder, 6.6 ft. from station mark in azimuth 237°51'.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in boulder, 15.95 ft. from station mark in azimuth 340°39'.

CALIFORNIA ZONE 4  
X=2,178,850.1  
Y= 463,719.6

V.A. Elevation: 11,407 ft.

Latitude: 36°36'20.168" Longitude: 118°23'26.429"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Mt. Kaweah	41°28'24.64"	221°25'18.27"	38,554.69
Whitney (C&GS)	288 31 15.50	108 34 49.29	30,850.68
Mt. Guyot	246 27 11.61	166 28 13.40	36,157.58

FILE COPY

10/5/60 ds

S.C.

Station: BREWER

County: Tulare

State: Calif. (352)

Observer: C.F. Urquhart

Year: 1904 Datum: 1927 N.A. (Revised 1954)

Description:

Books: A-218-34

FILE COPY

Described in Bulletin 310, page 170 as follows:

Highest point of Mount Brewer, a prominent mountain at source of Brewer Creek; rather difficult to climb. Sharp peak at summit is used for signal.

Station mark: A cairn.

CALIF. ZONE 4  
X=2,151,161.1  
Y= 501,026.7

[Latitude 36 42 30.688

Longitude 118 29 03.567 ]

To Station—	Azimuth			Back Azimuth			Distance Feet	
	°	'	"	°	'	"	Log. Meters	<del>Feet</del>
Goddard (USGS) (40GS)	154	32	53.35	334	24	26.25	4.6860302	159226.14
Split Mtn (USGS) (2446)	189	09	36.29	09	11	52.00	4.5455987	115234.59
Whitney	309	45	39.71	129	52	35.03	4.3522881	73836.70
Kaweah Mtn.	358	16	32.07	178	16	46.68	4.3062774	66414.30

5-20-54 am ✓

Station: **KAWEAH MTN.**

County: **Tulare**

State: **Calif. (352)**

Observer: **C.F. Urquhart**

Year: **1904** Datum: **1927 N.A. (Revised 1954)**

Description:

Book: **A218-34**

**FILE COPY**

Description in Bulletin 310, page 171 as follows:

On easternmost and only flat-topped mountain of the Kaweah group. At the source of Chagoopa Creek, a tributary of Kern River. Best reached by Chagoopa Creek.

Station mark: A small cairn, on highest point of mountain.

CALIF. ZONE 4  
X=2,153,515.9  
Y= 434,658.1

**CARDED**

*See notes 1956 station "MT KAWEAH (P4482)  
no tie - no mention of old station.*

[Latitude **36 31 34.261**

Longitude **118 28 39.082** ]

To Station—	Azimuth			Back Azimuth			Distance <b>Feet</b>	
	°	'	"	°	'	"	Log. Meters	<del>Feet</del>
Florence	25	59	37.87	205	57	02.97	4.1707804	48614.36
Brewer	178	16	46.68	358	16	32.07	4.3062774	66414.30
Whitney	250	43	14.93	70	49	54.77	4.2475627	58015.88
Olancha	311	44	58.81	131	57	48.50	4.6374994	142391.34
Kern	324	39	00.15	144	45	47.49	4.4710961	97068.92

5-20-54 am ✓

California (352)

Tulare County

MT. GUYOT

1927 N.A.D. (Adj., 1960)

R. H. Stewart, 1956

Book: PH 482

Located about 17.0 mi. WSW. of Lone Pine and 6.0 mi. SW. of Mt. Whitney and 500 ft. SW. along the main ridge from the highest point on Mt. Guyot.

Station reached by helicopter.

Station mark: Standard tablet stamped "MT GUYOT 1956" cemented in a large flat rock.

Reference mark No. 1: Standard reference mark tablet stamped "NO 1 1956" cemented in large rock, 10.37 ft. from station mark in azimuth 88°44'.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in rock, 8.49 ft. from station mark in azimuth 177°52'.

CALIFORNIA ZONE 4

V.A. Elevation: 12,300 ft.

X=2,187,542.0

Y= 428,624.6

Latitude: 36°30'32.563"

Longitude: 118°21'42.687"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Florence ✓	55°57'06.26"	235°50'23.92"	66,801.82
Mt. Kaweah	100 27 17.48	280 23 09.58	34,575.32
Triple Divide Peak ✓	121 48 14.02	301 42 13.76	58,049.31
Table Mtn. RM 1 ✓	149 26 44.91	329 22 46.67	64,071.25
Bighorn Plateau ✓	166 28 13.40	246 27 11.61	36,157.58
Mt. Keith ✓	184 37 35.93	4 38 17.16	69,805.08
Whitney (C&GS) ✓	219 21 42.88	39 24 14.65	32,781.85
Cirque Peak ✓	287 27 16.43	107 31 46.31	38,851.47

FILE COPY

11/25/60 ds *WHL*

California (352)

Tulare County

MT. KAWEAH

1927 N.A.D. (Adj., 1960)

A. E. Letey, 1956

Book: PH 482

Located about 9.0 mi. NE. of Min King, on the highest part of Mt. Kaweah.

Station reached by helicopter.

Station mark: Standard tablet stamped "MT KAWEAH 1956" cemented in the top of boulder.

Reference mark No.1: Standard reference mark tablet stamped "NO 1 1956" cemented in top of boulder, 8.92 ft. from station mark in azimuth 5°19'.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in top of boulder, 9.32 ft. from station mark in azimuth 100°09'.

CALIFORNIA ZONE 4

V.A. Elevation: 13,802 ft.

X=2,153,501.8

Y= 434,672.3

Latitude: 36°31'34.402"

Longitude: 118°28'39.254"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Florence ✓	25°58'49.54"	205°56'14.71"	48,614.03
Mt. Eisen	69 05 21.58	249 02 08.81	28,319.63
Alta (C&GS) ✓	113 24 45.25	293 18 08.85	59,143.67
Triple Divide Peak	147 42 02.58	327 40 10.38	28,748.60
Table Mtn. RM 1 ✓	181 36 23.91	01 36 33.95	48,921.70
Bighorn Plateau	221 25 18.27	41 28 24.64	38,554.69
Whitney (C&GS) ✓	250 44 22.89	70 51 02.78	58,016.31
Mt. Guyot ✓	280 23 09.58	100 27 17.84	34,575.32
Boreal	312 07 07.82	132 12 18.60	57,608.90
Kern ✓	324 38 44.21	144 45 31.62	97,076.12

FILE COPY

11/18/60 ds *mk.*

*VJZ 4-52*

California (352)

Inyo-Tulare Counties

MT. KEITH

1927 N.A.D. (Adj., 1960)

R. H. Stewart, 1956

Book: PH 482

Located about 17.0 mi. NW. of Lone Pine and 9.0 mi. N. of Mt. Whitney, on top of Mt. Keith.

Station reached by helicopter.

Station mark: Standard tablet stamped "MT KEITH 1956" cemented in bedrock.

Reference mark No. 1: Standard reference mark tablet stamped "NO 1 1956" cemented in large boulder, 9.83 ft. from station mark and 2 ft. lower in azimuth 163°28'.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in bedrock, 26.14 ft. from station mark and 7 ft. lower in azimuth 243°15'.

CALIFORNIA ZONE 4  
X=2,192,709.9  
Y= 498,234.0

V.A. Elevation: 13,977 ft.

Latitude: 36°42'00.563"

Longitude: 118°20'33.548"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Mt. Guyot ✓	04°38'17.16"	184°37'35.93"	69,805.08
Table Mtn. RM 1 ✓	69 21 14.60	249 16 34.52	40,826.28
Mt. Bago ✓	132 40 26.05	312 37 02.52	37,658.05
Whitney (C&GS)	341 05 33.91	161 07 24.76	46,757.99

FILE COPY

11/18/60 ds ✓



California (352)

Inyo County

MT. WILLIAMSON

1927 N.A.D. (Sec.)

A. E. Lacey, 1956 (n)

Book: PH 482

This is an intersected station.

Located about 5.5 mi. NNW. of Mt. Whitney.

Station mark and signal: The largest and southern-most of two cairns on top of Mt. Williamson. (This largest cairn is believed to be at the highest point of the top.)

CALIFORNIA ZONE 4

V.A. Elevation: 14,375 ft.

X=2,202,319.

Y= 482,224.

Latitude: 36°39'21.58"

Longitude: 118°18'36.97"

**FILE COPY**

(n) = Not occupied.

11/16/60 ds *W.L.*

California (352)

Tulare County TABLE MTN. RM 1 1956

1927 N.A.D. (Adj., 1960)

A. E. Lacey, 1956

Book: PH 482

Located 11.5 mi. NW. of Mt. Whitney along the Kings-Kern Divide, on the northern end and highest point of a flat, mountain top called Table Mountain.

Station reached by helicopter.

Note: When this station was visited, the intersected USC&GS station TABLE MTN. was found to be poorly located for obtaining the desired lines of sight, and the cairn was so large and well constructed that it was decided to use the newly established reference mark No. 1 as station mark.

Station mark: Standard reference mark tablet stamped "NO 1 1956" cemented in huge rock slab.

Reference mark No. 1: The center of a large cairn over USC&GS station mark "TABLE MTN 1950", 24.6 ft. from station mark and 5 ft. lower in azimuth 317°43'.

Reference mark No. 2: Standard reference mark tablet stamped "NO 2 1956" cemented in rock, 32.05 ft. from station mark in azimuth 288°25'.

CALIFORNIA ZONE 4  
X=2,154,607.3  
Y= 483,578.6

V.A. Elevation: 13,630 ft.

4471.775

FILE COPY

Latitude: 36°39'37.965"

Longitude: 118°28'22.420"

<u>To Station</u>	<u>Azimuth</u>	<u>Back Azimuth</u>	<u>Feet</u>
Mt. Kaweah	1°36'33.95"	181°36'23.91"	48,921.70
Triple Divide Peak	34 13 27.87	214 11 25.45	29,753.44
Alta (C&GS)	65 27 59.80	245 21 12.74	61,169.49
Silliman	84 41 46.03	264 33 46.26	65,781.81
Mitchell Pk. (C&GS)	110 19 14.15	290 10 34.81	75,443.62
Sphinx Crest	142 34 48.98	322 32 26.40	31,967.14
Mt. Bago	194 40 53.59	14 42 10.47	41,282.75
Mt. Keith	249 16 34.52	69 21 14.60	40,826.28
Whitney (C&GS)	299 08 21.08	119 14 51.56	61,133.10
Mt. Guyot	329 22 46.67	149 26 44.91	64,071.25

11/17/60 ds

Station: WHITNEY USGS

County: Inyo & Tulare

State: Calif. (352)

Observer: E. T. Perkins

Year: 1901

Datum: 1927 N.A. (Revised 1954)

Description: C. F. Urquhart

1904

3

FILE COPY

Books: 2785, 2788-91; A218-34

Described in Bulletin 201, page 150 as follows:

"The highest peak in the United States proper, at head of Kern River, about 20.0 mi. SW of Independence.

"Station mark: A cairn, probably erected by the Wheeler Survey."

Described in Bulletin 310, page 165 as follows:

"Station is on the highest point of Mount Whitney. Peak is at source of Crabtree Creek as given by old Sierra Club map (but Whitney Creek on most recent edition) and Lone Pine Creek. Whitney Creek flows into Kern River. There is a good trail from Lone Pine P.O. to summit of peak and another trail from Kern River up old Whitney or Volcano Creek to its source, thence over ridge to Rock Creek thence over ridge to Whitney Creek, thence up creek to foot of mountain. Elevation 14,499 ft. above mean sea level.

"Station mark: A triangulation tablet cemented in rock under center of a cairn 8 ft. high".

Note: See C+6.S. station "WHITNEY" 1950. They refer to a U.S.G.S. plaque in azimuth & distance. (Desc. Bk 1056 page 1)  
Lat: 36°34'43.211 Long: 118°17'27.801" (C+6.S. values)  
In 1950 C+6.S. also recovered "Cairn on Mt. Whitney" this may be E.T. Perkins, 1901, station "Whitney". Lat: 36°34'43.288" Long: 118°17'27.732"

[Latitude 36 34 43.150

Longitude 118 17 27.706 ]

To Station—	Azimuth			Back Azimuth			Distance	
	°	'	"	°	'	"	Log. Meters	FT. <del>Miles</del>
Big Meadows	02	55	34.94	182	54	07.41	4.8615068	238501.43
Sunday	16	41	28.45	196	31	05.99	4.9647551	302509.70
Florence	50	32	45.01	230	23	30.74	4.4782242	98675.29
Kawah Mtn.	70	49	54.77	250	43	14.93	4.2475627	58015.88
Brewer	129	52	35.03	309	45	39.71	4.3522881	73836.70
Split Mountain	166	41	41.31	346	36	59.97	4.7028393	165509.73
Olanacha	335	48	22.66	155	54	34.22	4.5811118	125053.55
Kern	359	17	45.25	179	17	54.03	4.4767359	98337.70

5/19/54 mk ✓

Recovered Kern-Whitney  
Book Nos. PH 482 Year 1956  
see Cross "WHITNEY A.B."

California (352)

Tulare-Inyo Counties

WHITNEY

1927 N.A.D.

USC&GS, 1950

A. E. Letey, 1956

Book: PH 482

Described by USC&GS in Description List 1056, p. 1.

Located about 16 1/2 mi. SSW. of Independence and 13.0 mi. W. of Lone Pine, on the highest point of Mount Whitney.

To reach the station from the Lone Pine P.O., go S. on U. S. Highway 395 and 6 for 1 1/2 blocks to a X-street and a sign "Whitney Portal 13", turn right and go 0.45 mi. to a X-rd. and a sign "Whitney Portal 13", continue straight ahead and follow the paved rd. for 2.3 mi. to a fork, take the left fork and follow the paved rd. for 10.7 mi. to the end of truck travel at the store and corral at Whitney Portal, follow the Mount Whitney Trail to the top of Mount Whitney and the station as described, a 1 day horse pack.

Note by AEL, 1956: All marks in good condition.

Note: WHITNEY (USGS 1901) described in Bul. 310, p. 165-166 and called "CAIRN" on Mt. Whitney by USC&GS, 1950 is 18.4 ft. from station mark in azimuth 196°13' (G.P. by USC&GS)

Note: A USGS aluminum plaque is set flush with the highest point of a large boulder, it is 0.91 meters higher than the station mark. The mark has been obliterated so badly by visitors that the stamping could not be verified.

Station mark: A standard disk stamped "WHITNEY 1950" 20 ft. W. of the E. edge of the bluff.

Reference mark No. 1: A standard BM disk stamped "U 43 1925" set in a drill hole in top of a large boulder.

Reference mark No. 2: A standard BM disk stamped "K 72 1928" set in a drill hole in top of a large boulder.

CALIFORNIA ZONE 4

\*X=2,208,162.77

Y= 454,106.18

V.A. Elevation: 14,491 ft.

(Level shot from C&GS BM

"U 43 1925")

SEE LATER VALUES

\*Latitude: 36°34'43.114" Longitude: 118°17'27.796"

FILE COPY

To Station	Azimuth	Back Azimuth	Feet
Boreal	11°52'49.34"	191°51'20.92"	59,014.56
Mt. Guyot	39 24 14.65	219 21 42.88	32,781.85
Florence	50 33 01.35	230 23 47.09	98,664.07
Mt. Kaweah	70 51 02.78	250 44 22.89	58,016.31
*Alta (C&GS)	92 24 09.58	272 10 52.73	109,130.5
Triple Divide Peak	94 19 17.91	274 10 45.43	70,320.44
Bighorn Plateau	108 34 49.29	288 31 15.50	30,850.68
Table Mtn. RM 1	119 14 51.56	299 08 21.08	61,133.10
Mt. Keith	161 07 24.76	341 05 33.91	46,757.99
VABM 14042	322 24 24.06	142 26 16.75	25,319.12
Cirque Pk.	336 18 10.06	156 20 08.44	40,418.95

\* = USC&GS Values

highest point 18.15 ft from  
1st. mch. (NNIS) = 14 494.164

11/17/60 ds

FILE COPY

36 118 1

CALIF. 352  
36°30'  
118°15'

<u>NAME</u>	<u>STATION</u>
WHITNEY	1019
WHITNEY (USGS)	1019
BENCH MARK 14502(USGS)	1019
BENCH MARK K 72	1019
BENCH MARK U 43	1019
CAIRN ON MT WHITNEY	1019
USGS PLAQUE NEAR WHITNEY	1019
MT WHITNEY SMITHSONIAN	1019
INSITUITE HOUSE	1019
MT KEITH	1024
TABLE MOUNTAIN CAIRN	1026

WYOMING



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1901

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1911

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1940

FILE COPY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BENCH MARK 14502 (USGS) YEAR: 1950  
 STATE: California LOCALITY: Visalia-Big Pine Area 1962  
 Second-order Traverse SOURCE: 0-9098 FIELD SKETCH: Calif. 387, 484  
 (No check on this position) SOURCE: 0-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH FROM DEL ANGLE	MARK	POSITION		SECONDS IN METERS	ELEVATION METERS FEET
				LATITUDE	LONGITUDE		
STATE: Calif. ZONE: 4 CODE: 0404	± 2,208,157.39 454,115.84	+ 0 25 23		36° 34' 43" 2098	NORTH WEST		
STATE: ZONE: CODE:	± Y			TO STATION		GEODETIC AZIMUTH (From bench)	DISTANCE (Meters)

Computed from station WHITNEY

DEPARTMENT OF COMMERCE  
 U. S. DEPARTMENT OF COMMERCE  
 COAST AND GEODETIC SURVEY  
 WASHINGTON D. C.  
 NAME OF STATION: Bench Mark 14502 (USGS)  
 CHIEF OF PARTY: John C. Childs YEAR: 1962 STATE: California COUNTRY: United States

Description, including sketch of object: The station is on the highest part of Mount Whitney, 16-1/2 miles south-southwest of Independence and 13 miles west of Lone Pine. The mark is a United States Geological Survey aluminum disk, stamped 14502, cemented in a drill hole in a 5 by 10 foot boulder projecting 3-1/2 feet. A traverse connection was made to triangulation station WHITNEY 1970, the distance being 9.78 feet or 2.982 meters north of the station.

Described by E. B. Kelly

Page 1960

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: BENCH MARK X 72 YEAR: 1950  
 STATE: California LOCALITY: Visalia-Big Pine Area 1962  
 Second-order Traverse SOURCE: 0-9098 FIELD SKETCH: Calif. 1, 484  
 (No check on this position) SOURCE: 0-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH FROM DEL ANGLE	MARK	POSITION		SECONDS IN METERS	ELEVATION METERS FEET
				LATITUDE	LONGITUDE		
STATE: Calif. ZONE: 4 CODE: 0404	± 2,208,165.23 454,116.11	+ 0 25 23		36° 34' 43" 2121	NORTH WEST		BENCH MARK
STATE: ZONE: CODE:	± Y			TO STATION		GEODETIC AZIMUTH (From bench)	DISTANCE (Meters)

Level line 361181 First order 1940, 14493.013 ft  
 Computed from station WHITNEY

DEPARTMENT OF COMMERCE  
 U. S. DEPARTMENT OF COMMERCE  
 COAST AND GEODETIC SURVEY  
 WASHINGTON D. C.  
 NAME OF STATION: BENCH MARK U 43 YEAR: 1950  
 STATE: California LOCALITY: Visalia-Big Pine Area 1962

Second-order Traverse SOURCE: 0-9098 FIELD SKETCH: Calif. 387, 484  
 (No check on this position) SOURCE: 0-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH FROM DEL ANGLE	MARK	POSITION		SECONDS IN METERS	ELEVATION METERS FEET
				LATITUDE	LONGITUDE		
STATE: Calif. ZONE: 4 CODE: 0404	± 2,208,151.73 454,113.81	+ 0 25 22		36° 38' 43" 1902	NORTH WEST		BENCH MARK
STATE: ZONE: CODE:	± Y			TO STATION		GEODETIC AZIMUTH (From bench)	DISTANCE (Meters)

Computed from station WHITNEY  
 Level line 361181, First order, 1940, 14493.432

352  
 JULY 1963  
 PUBLISHED AND PRINTED BY:  
 U.S. DEPARTMENT OF COMMERCE  
 COAST AND GEODETIC SURVEY  
 WASHINGTON D.C.

HORIZONTAL CONTROL DATA SHEET 2 of 2  
 by the  
 Coast and Geodetic Survey  
 NORTH AMERICAN 1927 DATUM

QUAD 361181 STATION 1019  
 CALIF  
 LATITUDE 36°30' TO 37°00'  
 LONGITUDE 118°00' TO 118°30'  
 DIAGRAM NJ 11-10 FRESNO

FILE COPY

36° 30'  
 118° 15'

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: CAIRN ON MT WHITNEY YEAR: 1950  
 LOCALITY: Visalia-Big Pine Area  
 Third-order Traverse SOURCE: G-9098 FIELD SKETCH: Calif. 387  
 (No check on this position) G-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (From 2nd) ANGLE	MARK
STATE: Calif.	x 2,208,162.93		
ZONE: 4	y 454,123.74	+ 0 25 23	
CODE: 0404			
STATE: 2			
ZONE: 7			
CODE:			
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION METERS FEET
LATITUDE: 36° 34' 43.288	NORTH		
LONGITUDE: 118 17 27.792	WEST		
TO STATION	GEODETIC AZIMUTH (From 2nd)	DISTANCE (Meters)	

Computed from station WHITNEY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: USGS PLAQUE NEAR WHITNEY YEAR: 1950  
 LOCALITY: Visalia-Big Pine Area  
 Second-order Traverse SOURCE: G-9098 FIELD SKETCH: Calif. 387  
 (No check on this position) G-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (From 2nd) ANGLE	MARK
STATE: Calif.	x 2,208,157.35		
ZONE: 4	y 454,115.90	+ 0 25 23	
CODE: 0404			
STATE: 2			
ZONE: 7			
CODE:			
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION METERS FEET
LATITUDE: 36° 34' 43.2105	NORTH		
LONGITUDE: 118 17 27.8616	WEST		
TO STATION	GEODETIC AZIMUTH (From 2nd)	DISTANCE (Meters)	

Computed from station WHITNEY

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: MT WHITNEY SMITHSONIAN INSTITUTE HOUSE YEAR: 1950  
 LOCALITY: Visalia-Big Pine Area  
 Third-order Traverse SOURCE: G-9098 FIELD SKETCH: Calif. 387  
 (No check on this position) G-13129

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (From 2nd) ANGLE	MARK
STATE: Calif.	x 2,208,074.81		
ZONE: 4	y 454,086.83	+ 0 25 22	
CODE: 0404			
STATE: 2			
ZONE: 7			
CODE:			
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION METERS FEET
LATITUDE: 36° 34' 42.925	NORTH		
LONGITUDE: 118 17 28.876	WEST		
TO STATION	GEODETIC AZIMUTH (From 2nd)	DISTANCE (Meters)	

Computed from station WHITNEY

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

NAME OF STATION: Mount Whitney, Institute, House YEAR: 1950 STATE: California COUNTY: Tulare  
 CHIEF OF PARTY: R. J. Sipe

DESCRIPTION OF TRIANGULATION: ~~TRANGULATION~~ <sup>TRaverse</sup> ~~INDEPENDENCE~~ <sup>SMITHSONIAN</sup> STATION  
 Description, including sketch of object:  
 The station is located about 162 miles air line south southwest of Independence and 15 miles air line west of Lone Pine. It is on the summit of Mount Whitney. It is a stone house 30 feet long and 12 feet wide and it is about 10 feet high at the peak of the roof.  
 A traverse connection was made to the northeast corner of the house from the triangulation station WHITNEY. The northeast corner of the house is 26.0 meters west southwest of triangulation station WHITNEY. The northeast corner of the house can be used as a picture point.

RECOVERY  
 DEPARTMENT OF COMMERCE - COAST AND GEODETIC SURVEY  
 NAME OF STATION: Mount Whitney, Smithsonian Institute, House  
 Recovered By: John C. Childs YEAR: 1962 STATE: California COUNTY: Tulare-Inyo  
 CHIEF OF PARTY: John C. Childs  
 Description, including sketch of object: The station was recovered as previously described by R. J. S. in 1950.

R

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

NAME OF STATION: USGS Aluminae Plaque YEAR: 1950 STATE: California COUNTY: Tulare-Inyo  
 Recovered By: John C. Childs  
 CHIEF OF PARTY: John C. Childs YEAR: 1962 STATE: California COUNTY: Tulare-Inyo  
 Description, including sketch of object: This mark has been destroyed. The station to which it was traversed to is ~~WHITNEY~~ 1950.

JAN 1964



Coast and Geodetic Survey  
 NORTH AMERICAN 1927 DATUM

FILE COPY

ADJUSTED HORIZONTAL CONTROL DATA

QUAD 361191 STATION 1019  
 CALIF  
 LATITUDE 36°30' TO 37°00'  
 LONGITUDE 118°00' TO 118°30'  
 DIAGRAM NO 11-10 FRESNO

36°30'  
 118°15'

DESCRIPTION OF TRIANGULATION STATION

DEPARTMENT OF COMMERCE  
 U.S. COAST AND GEODETIC SURVEY  
 NAME OF STATION: **WHITNEY** STATE: **California** COUNTY: **Tulare-Imperial**  
 YEAR: 1950  
 DESIGNED BY: **E.F.L.**

MARK	HEIGHT OF USER FROM STATION MARK	HEIGHT OF REFLECTOR ABOVE STATION MARK	REFLECTION
122	1.7	9.85	3.003
123	1.7	9.85	3.002
124	1.7	12.47	3.001
125	1.7	12.47	3.000
126	1.7	12.47	2.999
127	1.7	12.47	2.998
128	1.7	12.47	2.997
129	1.7	12.47	2.996
130	1.7	12.47	2.995
131	1.7	12.47	2.994
132	1.7	12.47	2.993
133	1.7	12.47	2.992
134	1.7	12.47	2.991
135	1.7	12.47	2.990
136	1.7	12.47	2.989
137	1.7	12.47	2.988
138	1.7	12.47	2.987
139	1.7	12.47	2.986
140	1.7	12.47	2.985
141	1.7	12.47	2.984
142	1.7	12.47	2.983
143	1.7	12.47	2.982
144	1.7	12.47	2.981
145	1.7	12.47	2.980
146	1.7	12.47	2.979
147	1.7	12.47	2.978
148	1.7	12.47	2.977
149	1.7	12.47	2.976
150	1.7	12.47	2.975
151	1.7	12.47	2.974
152	1.7	12.47	2.973
153	1.7	12.47	2.972
154	1.7	12.47	2.971
155	1.7	12.47	2.970
156	1.7	12.47	2.969
157	1.7	12.47	2.968
158	1.7	12.47	2.967
159	1.7	12.47	2.966
160	1.7	12.47	2.965
161	1.7	12.47	2.964
162	1.7	12.47	2.963
163	1.7	12.47	2.962
164	1.7	12.47	2.961
165	1.7	12.47	2.960
166	1.7	12.47	2.959
167	1.7	12.47	2.958
168	1.7	12.47	2.957
169	1.7	12.47	2.956
170	1.7	12.47	2.955
171	1.7	12.47	2.954
172	1.7	12.47	2.953
173	1.7	12.47	2.952
174	1.7	12.47	2.951
175	1.7	12.47	2.950
176	1.7	12.47	2.949
177	1.7	12.47	2.948
178	1.7	12.47	2.947
179	1.7	12.47	2.946
180	1.7	12.47	2.945
181	1.7	12.47	2.944
182	1.7	12.47	2.943
183	1.7	12.47	2.942
184	1.7	12.47	2.941
185	1.7	12.47	2.940
186	1.7	12.47	2.939
187	1.7	12.47	2.938
188	1.7	12.47	2.937
189	1.7	12.47	2.936
190	1.7	12.47	2.935
191	1.7	12.47	2.934
192	1.7	12.47	2.933
193	1.7	12.47	2.932
194	1.7	12.47	2.931
195	1.7	12.47	2.930
196	1.7	12.47	2.929
197	1.7	12.47	2.928
198	1.7	12.47	2.927
199	1.7	12.47	2.926
200	1.7	12.47	2.925
201	1.7	12.47	2.924
202	1.7	12.47	2.923
203	1.7	12.47	2.922
204	1.7	12.47	2.921
205	1.7	12.47	2.920
206	1.7	12.47	2.919
207	1.7	12.47	2.918
208	1.7	12.47	2.917
209	1.7	12.47	2.916
210	1.7	12.47	2.915
211	1.7	12.47	2.914
212	1.7	12.47	2.913
213	1.7	12.47	2.912
214	1.7	12.47	2.911
215	1.7	12.47	2.910
216	1.7	12.47	2.909
217	1.7	12.47	2.908
218	1.7	12.47	2.907
219	1.7	12.47	2.906
220	1.7	12.47	2.905
221	1.7	12.47	2.904
222	1.7	12.47	2.903
223	1.7	12.47	2.902
224	1.7	12.47	2.901
225	1.7	12.47	2.900
226	1.7	12.47	2.899
227	1.7	12.47	2.898
228	1.7	12.47	2.897
229	1.7	12.47	2.896
230	1.7	12.47	2.895
231	1.7	12.47	2.894
232	1.7	12.47	2.893
233	1.7	12.47	2.892
234	1.7	12.47	2.891
235	1.7	12.47	2.890
236	1.7	12.47	2.889
237	1.7	12.47	2.888
238	1.7	12.47	2.887
239	1.7	12.47	2.886
240	1.7	12.47	2.885
241	1.7	12.47	2.884
242	1.7	12.47	2.883
243	1.7	12.47	2.882
244	1.7	12.47	2.881
245	1.7	12.47	2.880
246	1.7	12.47	2.879
247	1.7	12.47	2.878
248	1.7	12.47	2.877
249	1.7	12.47	2.876
250	1.7	12.47	2.875
251	1.7	12.47	2.874
252	1.7	12.47	2.873
253	1.7	12.47	2.872
254	1.7	12.47	2.871
255	1.7	12.47	2.870
256	1.7	12.47	2.869
257	1.7	12.47	2.868
258	1.7	12.47	2.867
259	1.7	12.47	2.866
260	1.7	12.47	2.865
261	1.7	12.47	2.864
262	1.7	12.47	2.863
263	1.7	12.47	2.862
264	1.7	12.47	2.861
265	1.7	12.47	2.860
266	1.7	12.47	2.859
267	1.7	12.47	2.858
268	1.7	12.47	2.857
269	1.7	12.47	2.856
270	1.7	12.47	2.855
271	1.7	12.47	2.854
272	1.7	12.47	2.853
273	1.7	12.47	2.852
274	1.7	12.47	2.851
275	1.7	12.47	2.850
276	1.7	12.47	2.849
277	1.7	12.47	2.848
278	1.7	12.47	2.847
279	1.7	12.47	2.846
280	1.7	12.47	2.845
281	1.7	12.47	2.844
282	1.7	12.47	2.843
283	1.7	12.47	2.842
284	1.7	12.47	2.841
285	1.7	12.47	2.840
286	1.7	12.47	2.839
287	1.7	12.47	2.838
288	1.7	12.47	2.837
289	1.7	12.47	2.836
290	1.7	12.47	2.835
291	1.7	12.47	2.834
292	1.7	12.47	2.833
293	1.7	12.47	2.832
294	1.7	12.47	2.831
295	1.7	12.47	2.830
296	1.7	12.47	2.829
297	1.7	12.47	2.828
298	1.7	12.47	2.827
299	1.7	12.47	2.826
300	1.7	12.47	2.825
301	1.7	12.47	2.824
302	1.7	12.47	2.823
303	1.7	12.47	2.822
304	1.7	12.47	2.821
305	1.7	12.47	2.820
306	1.7	12.47	2.819
307	1.7	12.47	2.818
308	1.7	12.47	2.817
309	1.7	12.47	2.816
310	1.7	12.47	2.815
311	1.7	12.47	2.814
312	1.7	12.47	2.813
313	1.7	12.47	2.812
314	1.7	12.47	2.811
315	1.7	12.47	2.810
316	1.7	12.47	2.809
317	1.7	12.47	2.808
318	1.7	12.47	2.807
319	1.7	12.47	2.806
320	1.7	12.47	2.805
321	1.7	12.47	2.804
322	1.7	12.47	2.803
323	1.7	12.47	2.802
324	1.7	12.47	2.801
325	1.7	12.47	2.800
326	1.7	12.47	2.799
327	1.7	12.47	2.798
328	1.7	12.47	2.797
329	1.7	12.47	2.796
330	1.7	12.47	2.795
331	1.7	12.47	2.794
332	1.7	12.47	2.793
333	1.7	12.47	2.792
334	1.7	12.47	2.791
335	1.7	12.47	2.790
336	1.7	12.47	2.789
337	1.7	12.47	2.788
338	1.7	12.47	2.787
339	1.7	12.47	2.786
340	1.7	12.47	2.785
341	1.7	12.47	2.784
342	1.7	12.47	2.783
343	1.7	12.47	2.782
344	1.7	12.47	2.781
345	1.7	12.47	2.780
346	1.7	12.47	2.779
347	1.7	12.47	2.778
348	1.7	12.47	2.777
349	1.7	12.47	2.776
350	1.7	12.47	2.775
351	1.7	12.47	2.774
352	1.7	12.47	2.773
353	1.7	12.47	2.772
354	1.7	12.47	2.771
355	1.7	12.47	2.770
356	1.7	12.47	2.769
357	1.7	12.47	2.768
358	1.7	12.47	2.767
359	1.7	12.47	2.766
360	1.7	12.47	2.765
361	1.7	12.47	2.764
362	1.7	12.47	2.763
363	1.7	12.47	2.762
364	1.7	12.47	2.761
365	1.7	12.47	2.760
366	1.7	12.47	2.759
367	1.7	12.47	2.758
368	1.7	12.47	2.757
369	1.7	12.47	2.756



HORIZONTAL CONTROL DATA

Coast and Geodetic Survey  
 by the  
 NORTH AMERICAN 1927 DATUM

FILE COPY

QUAD 361181 STATIONS 1024, 1025  
 CALIF 36°30' TO 37°00'  
 LATITUDE 118°00' TO 118°30'  
 LONGITUDE 118°00' TO 118°30'  
 DIAGRAM NO 11-10 PRE50

36° 30 1  
 118° 15 1

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: **MC KEITH** LOCALITY: **Visalia-Big Pine Area** YEAR: **1950**  
 STATE: **California** TRIANGULATION SOURCE: **0-9098** FIELD SKETCH: **Calif. 387**  
**0-13129**

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH FROM ADJ. ANGLE	MARK	POSITION		SECONDS IN METERS	ELEVATION METERS	DISTANCE (Meters)
				LATITUDE	LONGITUDE			
STATE: Calif. ZONE: 4 CODE: 0404	2,192,701.32 498,232.50	+ 0 23 32		36° 42' 00.540 118 20 35.654	NORTH WEST		4299.7 13975	
TO STATION								

Computed from stations **BLUE, MONARCH, WHITNEY**

DEPARTMENT OF COMMERCE  
 U. S. COAST AND GEODETIC SURVEY  
 FORM 523 B

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: **Mt. Keith** YEAR: **1950** STATE: **California** COUNTRY: **U.S.A.**  
 CHIEF OF PARTY: **R. J. Slpe**  
 Description, including sketch of object: The station is a sharp pointed peak that breaks off sharply on the south and west sides. It is about 10 1/2 miles southwest of the town of Independence and about 17 miles west northwest of the town of Lone Pine. A small cabin on the top of the peak is the point that was intersected.

Described by **R. J. Slpe**

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: **FAVITE MONUMENT** LOCALITY: **Vicinity of Independence** YEAR: **1952**  
 STATE: **California** TRIANGULATION SOURCE: **072 0-9820** FIELD SKETCH: **CALIF 402**

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH FROM ADJ. ANGLE	MARK	POSITION		SECONDS IN METERS	ELEVATION METERS	DISTANCE (Meters)
				LATITUDE	LONGITUDE			
STATE: Calif. ZONE: 4 CODE: 0404	2,282,508.88 558,518.49	+ 0 34 34		36° 51' 49.166 118 02 03.448	NORTH WEST		2,550 8,366	
TO STATION								

Computed from stations **NORTH ALA HILLS (LAND), INDEPENDENCE SE BARB, CAMERA POST NO 5, KEARSARGE, INDEPENDENCE NW BASE, CAMERA POST NO 4, CAMERA POST NO 2, SW 1, SW 6**

DEPARTMENT OF COMMERCE  
 U. S. COAST AND GEODETIC SURVEY  
 FORM 523 B

DESCRIPTION OF TRIANGULATION INTERSECTION STATION

NAME OF STATION: **Palate Monument** YEAR: **1952** STATE: **California** COUNTRY: **U.S.A.**  
 CHIEF OF PARTY: **Walter R. Helm**  
 Description, including sketch of object: Palate Monument is located about 10 miles air-line northeast of Independence in a saddle on the crest of a ridge of the Inyo Mountains. It is a granite rock formation that is approximately 60 feet in height, 25 feet in diameter at the base and about 10 feet in diameter at the top. The center of the top was intersected.

Described by **W. R. Helm**

352  
CALIF.  
36030  
1180151

JULY 1963  
PUBLISHED AND PRINTED BY:  
U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
WASHINGTON D.C.

HORIZONTAL CONTROL DATA

by the  
Coast and Geodetic Survey  
NORTH AMERICAN 1927 DATUM

QUAD 361181 STATION 1026  
CALIF  
LATITUDE 36°30' TO 37°00'  
LONGITUDE 118°00' TO 118°30'  
DIAGRAM NJ 11-10 FRESNO

FILE COPY

DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
FORM 563 (REV. 1-5-59)

ADJUSTED HORIZONTAL CONTROL DATA

NAME OF STATION: TABLE MOUNTAIN CAIRN  
STATE: California LOCALITY: Visalia-Big Pine Area  
Third-order Triangulation source: G-9098 FIELD SKETCH: Calif. 387  
YEAR: 1950  
COUNTY: Tulare

Description, including sketch of object: The station is located on a high, prominent table topped mesa-tail on the Kings Kera Divide that is about 14 miles southeast of Cedar Grove, about 18 miles southwest of Independence, and about 23 miles west northwest of Lone Pine.  
The station mark, stamped "TABLE MTH 1950", is a standard triangulation station disk that is set in a large boulder, 10 paces from the most northerly point of the north end and highest point of the mountain. It is about 12 paces west of the precipice that forms the eastern edge of the top of the mountain. An 8 foot cairn was erected over the mark.  
The station can be reached from Forrester Pass, on the Muir Trail, by going south about 3 miles to a trail to the right and a sign "South America Lake". Take the trail to the right, westerly, for about 1 mile to a fork in the trail and a sign "South America Lake" pointing to the right. Take the fork to the left, westerly, for about 2 miles to another "South America Lake" sign and a fork. Take the left fork down the Kera River for about 1 mile to a small rock pile and a trail up Milestone Creek. Take the trail up Milestone Creek, westerly, for about 2 1/2 miles to the edge of Milestone Basin. From here pick your way northwesterly around the side of a prominent rock formation for about 1 mile to some small lakes and a camp site with stock feed. The top of the station peak is visible from here. Pack northwesterly to the highest point and the station. About a 3 hour back pack.

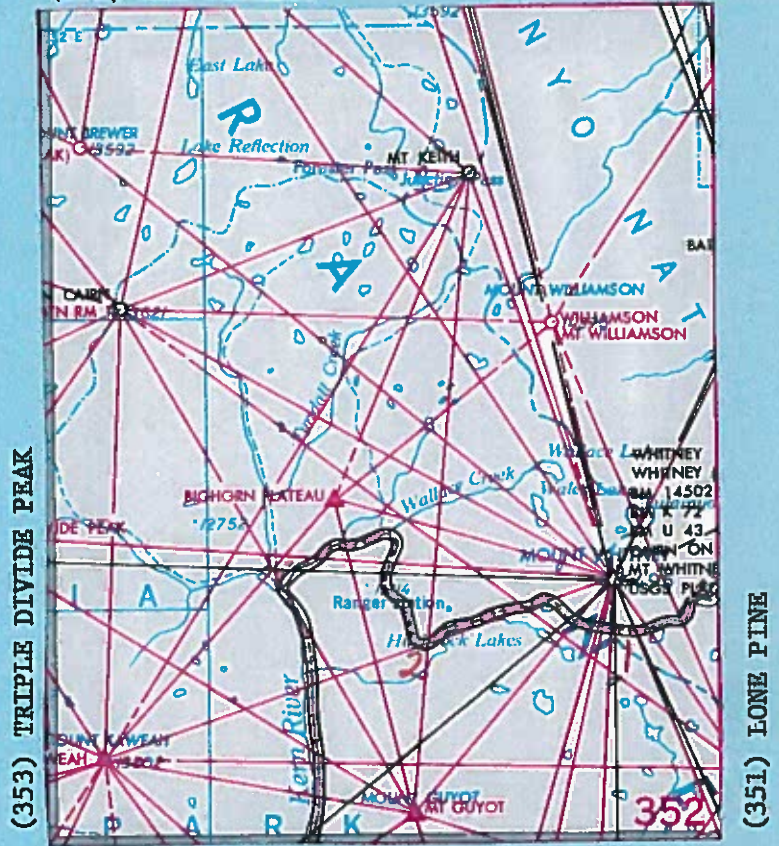
Described by: R. J. Sipe  
U. S. GOVERNMENT PRINTING OFFICE 16-58371-1  
CAL 1122  
97-8000

GRID DATA	COORDINATES (Feet)	PLANE AZIMUTH (MOR. ANG.)	MARK
STATE: Calif.	x 2,154,617.09		
ZONE: 4	y 487,560.81	+ 0 18 52	
CODE: 0404			
STATE:			
ZONE:			
CODE:			
GEODETIC DATA	POSITION	SECONDS IN METERS	ELEVATION
	LATITUDE 36° 39' 37.789 NORTH		4151.7 METERS
	LONGITUDE 118° 28' 22.302 WEST		13621 FEET
	TO STATION	GEODETIC AZIMUTH (From center)	DISTANCE (Meters)

Computed from stations ALTA, MITCHELL PEAK, SPANISH

See "TABLE MTN RM NO 1 1952" (uses PH 482)

(373) MT. PINCHOT



(1) R.A. Farmer	1905	6284
(2) C.H. Semper	1905	7697

# FILE COPY

MOUNT WHITNEY (352)

California

*R.A. Farner*  
~~I.F. Biggs~~, 1905

Third Order

Tentative Adjusted Elevations

6274

Based on Sea Level Datum of 1929

Book: 6450

Latitude 36°30'      Longitude 118°15'

(1) FROM EAST EDGE OF QUADRANGLE WEST TO MOUNT WHITNEY

Summit of divide of Sierra Nevada Mountains where Lone Pine trail crosses, 20 ft. N. of W. trail, in granite wall; aluminum tablet stamped "13,337 B 1905" (C&GS tie) (Not found, 1956)

Not Found

13,329.455

Mount Whitney, highest point of summit, in large rock 6.5 ft. S. and 5 ft. W. of center of monument; aluminum tablet half an inch thick, 4.5 in. wide, and 7 in. long, engraved as follows: "U.S. Geological Survey, Charles D. Walcott, Director; Latitude: 36°44'44" Longitude: 118°17'29"; Elevation above sea level, 14,501, 1905 (C&GS tie)

14,494.777

*For Later BM on peak, see NGS Level quad 36 1181,*

8/27/63 1c *cc*

MOUNT WHITNEY (352)

California

C.H. Semper, 1905

Third Order

Tentative Adjusted Elevations  
Based on Sea Level Datum of 1929

Book: 7697

**FILE COPY**

Latitude 36°30'

Longitude 118°15'

(2) FROM MOUNT WHITNEY WEST ALONG TRAIL TO CRABTREE MEADOW THENCE  
NORTHWEST TO KERN RIVER THENCE SOUTH DOWN KERN RIVER TO EDGE  
OF QUADRANGLE

Crabtree Meadow, at junction of trail to Mount Whitney,  
Kern River and Whitney Creek, top of very large rock;  
aluminum tablet stamped "10,330 G 1905 7 S" (C&GS Tie)

10,328.637

E. fork of Kern River, 2.4 mi. N. of, on cut-off trail,  
30 ft. NE. of crossing of small creek, S. margin of trail,  
on N. face of large boulder in small meadow; aluminum  
tablet stamped "9837 1905 6 S"

Not Found <sup>1</sup>80  
9835.128

8/27/63 av JAU



03-JUL-2004

## The Highest Trail in the US & the End of the JMT

*Nikon Coolpix 4300*

1/826s f/7.6 at 8.0mm iso100 full exif

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