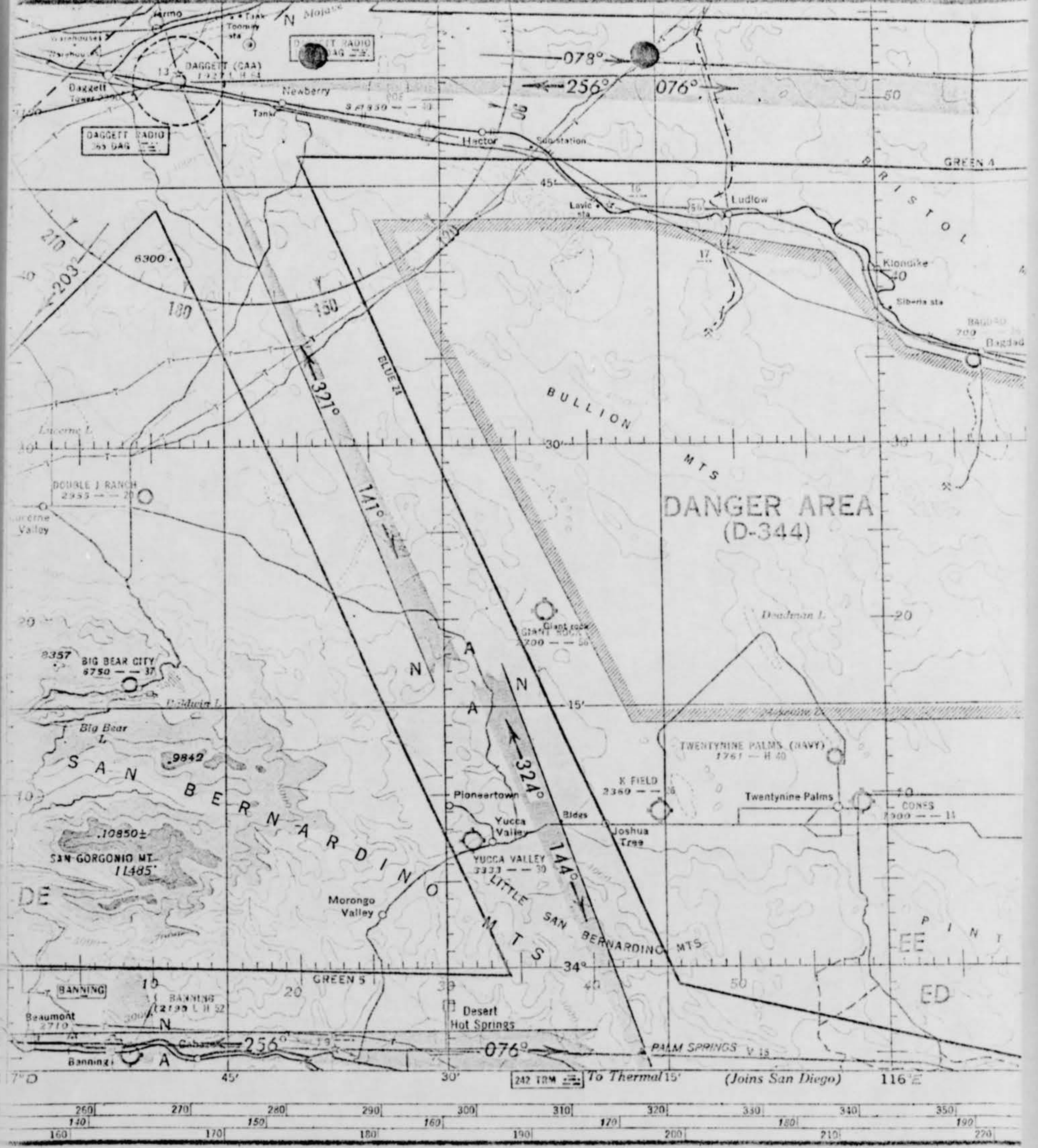


1. DATE - TIME GROUP 28 Jan 53 28/2100Z	2. LOCATION Point Lugo, California
3. SOURCE Civ Men	10. CONCLUSION UNKNOWN (UNIDENTIFIED) Unidentified
4. NUMBER OF OBJECTS One	
5. LENGTH OF OBSERVATION 6 Min.	11. BRIEF SUMMARY AND ANALYSIS White object was observed traveling in an Easterly course at high speed. Observers sighted object after a jet a/c they were observing disappeared. Sources concluded that object was not a conventional a/c.
6. TYPE OF OBSERVATION Ground-Visual	
7. COURSE East	
8. PHOTOS <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. PHYSICAL EVIDENCE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

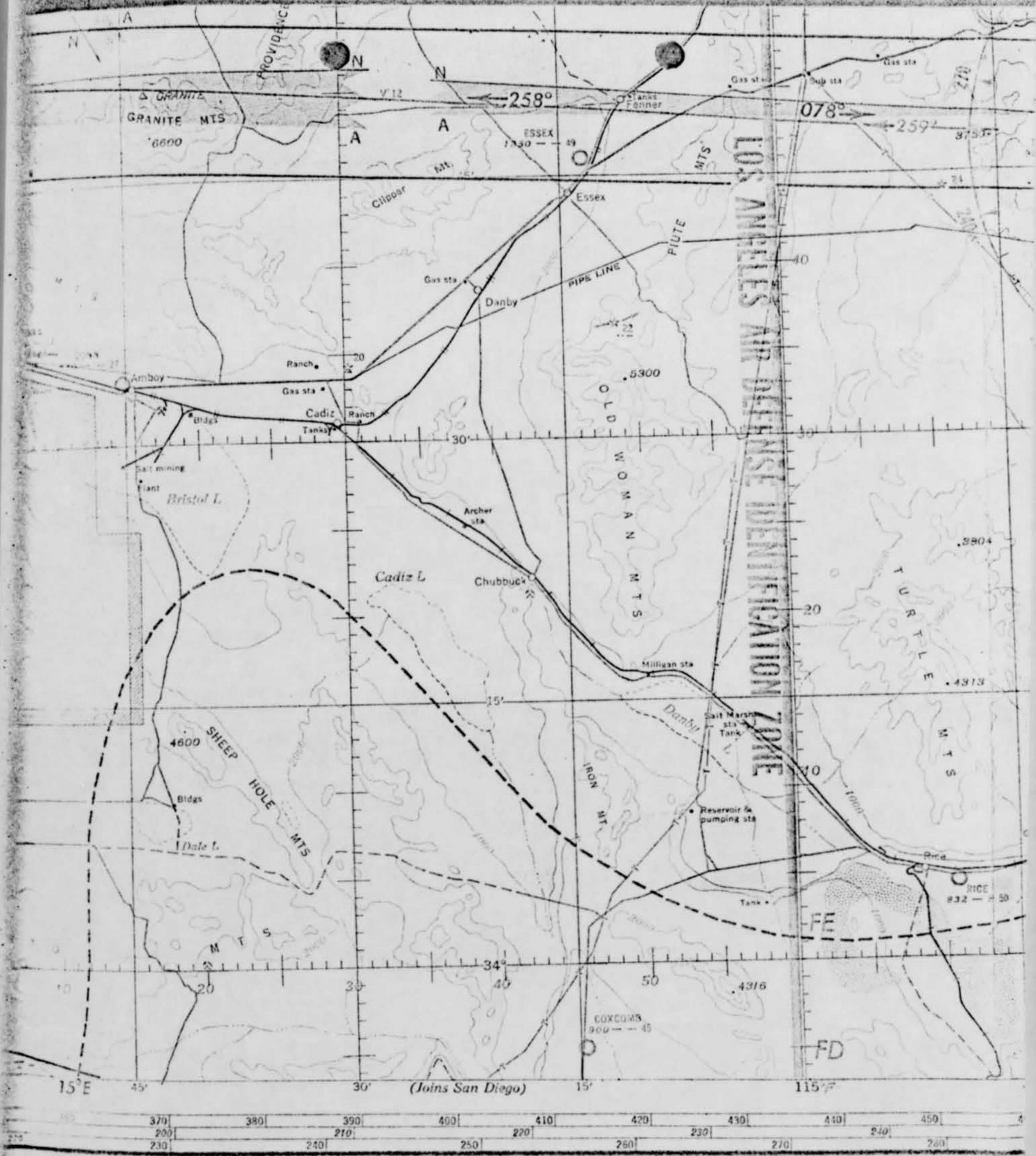


BLUE TINT INDICATES AIR TRAFFIC CONTROLLED AREAS

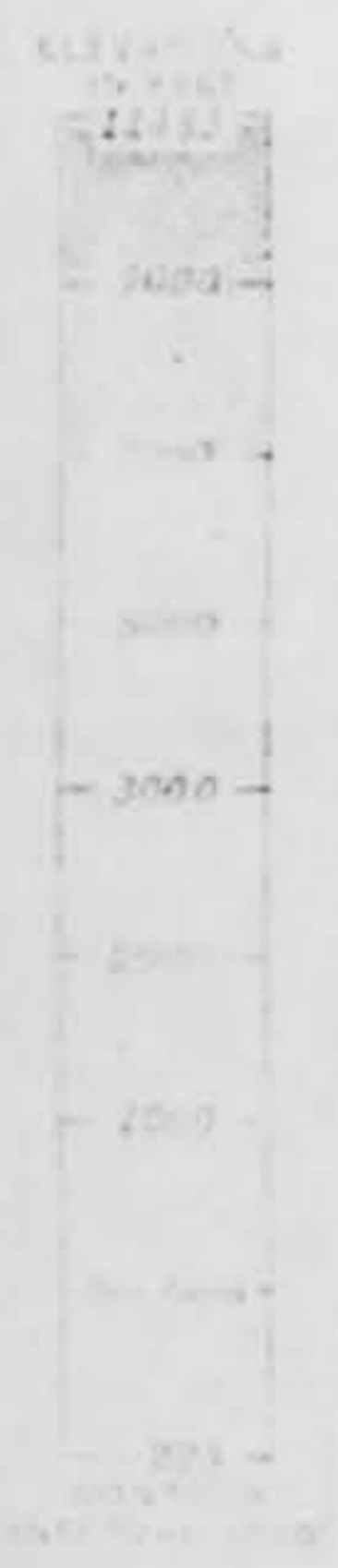
For pilot information see reverse side

Victor airway designations are shown along the radials of the omni range stations. Limits of these airways which are not indicated on this chart are 5 miles on either side of the radials.





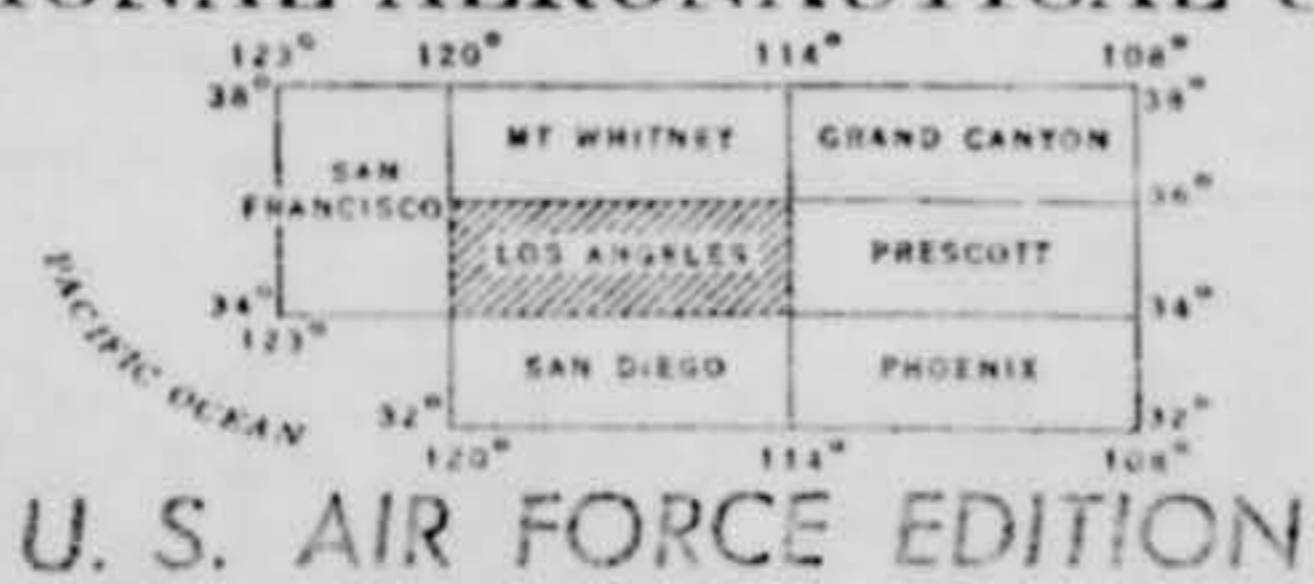
370	380	390	400	410	420	430	440	450
200	210	220	230	240	250	260	270	280
230	240	250	260	270	280	290	300	310



GEOREF 8-52

LOS ANGELES (R-2) SECTIONAL AERONAUTICAL CHART

34th EDITION
 Consult Coast and Geodetic
 Survey Radio Facility Charts
 and Civil Aeronautics Admin-
 istration Airman's Guide for
 changes in aeronautical infor-
 mation on this chart after
SEPT. 12, 1952
 Next scheduled edition, March 1953



(Joins Phoenix)

NAUTICAL MILES

For convenience in converting distances expressed in statute miles to their equivalents in nautical miles, and vice versa, the table below has been prepared. The United States nautical mile has been used for the table.

The United States nautical mile is defined as equal to one-sixtieth of a degree (one minute) of a great circle on a sphere whose surface is equal to the surface of the earth. The value of a nautical mile is calculated on this basis as 1853.25 meters or 6080.20 feet. Since the common or statute mile is equal to 5280 feet, one nautical mile equals approximately 1.152 statute miles, and one statute mile equals approximately 0.868 nautical mile. For quick calculation the nautical mile may be considered approximately one-seventh longer than the statute mile, and the statute mile approximately one-eighth shorter than the nautical mile.

In the lower margins of the sectional charts is provided a convenient conversion scale by which values in statute miles may be readily converted to nautical miles and vice versa. Distances expressed in either unit may thus be scaled directly on the charts.

The length of one minute of latitude measured along a meridian on the surface of the earth at latitude 48°15' is equal to a United States nautical mile. North or south of 48°15' the length of a minute is slightly longer or shorter, since the earth is not a perfect sphere. However, for practical purposes, the nautical mile is considered equivalent to a minute of latitude at any point on the earth's surface. Therefore, the one-minute subdivisions of the meridian lines on the face of charts may also be used for scaling distances.

The knot is a unit of speed only. One knot is equal to one nautical mile per hour; as, when an aircraft is travelling 200 nautical miles per hour, its speed is 200 knots.

CONVERSION TABLES

STATUTE MILES TO NAUTICAL MILES			NAUTICAL MILES TO STATUTE MILES			
STATUTE MILES	NAUTICAL MILES	FEET	STATUTE MILES	NAUTICAL MILES	FEET	
0.1	0.087	528	100	86.8	608.0	
0.2	0.174	1056	110	95.5	1216.0	
0.3	0.261	1584	120	104.2	1824.1	
0.4	0.347	2112	130	112.9	2432.1	
0.5	0.434	2640	140	121.6	3040.1	
0.6	0.521	3168	150	130.3	3648.1	
0.7	0.608	3696	160	138.9	4256.1	
0.8	0.695	4224	170	147.6	4864.2	
0.9	0.782	4752	180	156.3	5472.2	
1.0	0.868	5280	190	165.0	6080.2	
			200	173.7		
2	1.74		210	182.4	2	2.30
3	2.61		220	191.0	3	3.45
4	3.47		230	199.7	4	4.61
5	4.34		240	208.4	5	5.76
6	5.21		250	217.1	6	6.91
7	6.08		260	225.8	7	8.06
8	6.95		270	234.5	8	9.21
9	7.82		280	243.1	9	10.36
10	8.68		290	251.8	10	11.52
11	9.55		300	260.5	11	12.67
12	10.42		310	269.2	12	13.82
13	11.29		320	277.9	13	14.97
14	12.16		330	286.6	14	16.12
15	13.03		340	295.3	15	17.27
16	13.89		350	303.9	16	18.42
17	14.76		360	312.6	17	19.58
18	15.63		370	321.3	18	20.73
19	16.50		380	330.0	19	21.88
20	17.37		390	338.7	20	23.03
			400	347.4		
30	26.05				30	34.55
40	34.74		500	434.2	40	46.06
50	43.42		600	521.0	50	57.58
60	52.10		700	607.9	60	69.09
70	60.79		800	694.7	70	80.61
80	69.47		900	781.6	80	92.12
90	78.16		1000	868.4	90	103.64

SEARCH AND RESCUE

Search and Rescue Service is a life saving service provided through the combined efforts of the CAA, Air Force, and Coast Guard who are assisted by other organizations such as the Civil Air Patrol, Sheriffs Air Patrol, State Police, and such other agencies as may be available. It provides search, survival aid, and rescue of personnel of missing or crashed aircraft.

All you need to remember to obtain this valuable protection is:

1. File a Flight Plan with a CAA Airway Communications Station in person or by telephone or radio.
2. File an Arrival Report.
3. If you land at a location other than intended destination, report the landing to the nearest CAA Communications Station.
4. If you land enroute and are delayed more than an hour, report this information to the nearest communications station.
5. Remember that if you fail to report within one hour after your E.T.A., a search will be started to locate you. If you fail to report within three hours after your E.T.A., the full facilities of the Search and Rescue Service will be activated.

Searches are expensive, they inconvenience other people, and on numerous occasions the lives of other pilots are sacrificed when searching for lost or overdue pilots. **SO, FILE AN ARRIVAL REPORT!**



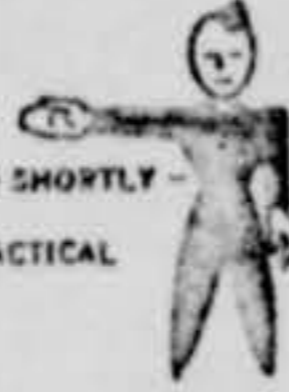










GROUND TO AIR EMERGENCY CODE DISTRESS SIGNALS

REQUIRE DOCTOR, SERIOUS INJURIES ----- I	REQUIRE SIGNAL LAMP WITH BATTERY, AND RADIO ----- I	REQUIRE FUEL AND OIL ----- L
REQUIRE MEDICAL SUPPLIES ----- II	INDICATE DIRECTION TO PROCEED ----- K	ALL WELL ----- LL
UNABLE TO PROCEED ----- X	AM PROCEEDING IN THIS DIRECTION ----- ↑	NO ----- N
REQUIRE FOOD AND WATER ----- F	WILL ATTEMPT TAKE-OFF ----- ▷	YES ----- Y
REQUIRE FIREARMS AND AMMUNITION ----- ∇	AIRCRAFT SERIOUSLY DAMAGED ----- L7	NOT UNDERSTOOD ----- JL
REQUIRE MAP AND COMPASS ----- □	PROBABLY SAFE TO LAND HERE ----- Δ	REQUIRE MECHANIC ----- W
	IF IN DOUBT, USE INTERNATIONAL SYMBOL ----- SOS	

INSTRUCTIONS:

1. Lay out symbols by using strips of fabric or parachutes, pieces of wood, stones, or any available material.
2. Provide as much color contrast as possible between material used for symbols and background against which symbols are exposed.
3. Symbols should be at least 10 feet high or larger, if possible. Care should be taken to lay out symbols exactly as shown to avoid confusion with other symbols.
4. In addition to using symbols, every effort is to be made to attract attention by means of radio, flares, smoke, or other available means.
5. When ground is covered with snow, signals can be made by dragging, shoveling or tramping the snow. The depressed areas forming the symbols will appear to be black from the air.
6. Pilot should acknowledge message by rocking wings from side to side.

VISUAL EMERGENCY SIGNALS

NEED MEDICAL ASSISTANCE - URGENT USED ONLY WHEN LIFE IS AT STAKE  LIE PRONE	ALL OK - DO NOT WAIT  WAVE ONE ARM OVERHEAD	CAN PROCEED SHORTLY - WAIT IF PRACTICAL  ONE ARM HORIZONTAL	NEED MECHANICAL HELP OR PARTS - LONG DELAY  BOTH ARMS HORIZONTAL	DO NOT ATTEMPT TO LAND HERE  BOTH ARMS WAVED ACROSS FACE
LAND HERE  BOTH ARMS FORWARD HORIZONTALLY, SQUATTING AND POINTING IN DIRECTION OF LANDING - REPEAT	USE DROP MESSAGE  MAKE THROWING MOTION	OUR RECEIVER IS OPERATING  CUP HANDS OVER EARS	NEGATIVE (NO)  WHITE CLOTH WAVED HORIZONTALLY	AFFIRMATIVE (YES)  WHITE CLOTH WAVED VERTICALLY
PICK US UP - PLANE ABANDONED  BOTH ARMS VERTICAL	AFFIRMATIVE (YES)  DIP NOSE OF PLANE SEVERAL TIMES	NEGATIVE (NO)  FISH-TAIL PLANE	HOW TO USE THEM IF YOU ARE FORCED DOWN AND ARE ABLE TO ATTRACT THE ATTENTION OF THE PILOT OF A RESCUE AIRPLANE, THE BODY SIGNALS ILLUSTRATED ON THIS PAGE CAN BE USED TO TRANSMIT MESSAGES TO HIM AS HE CIRCLES OVER YOUR LOCATION. STAND IN THE OPEN WHEN YOU MAKE THE SIGNALS. BE SURE THAT THE BACKGROUND, AS SEEN FROM THE AIR, IS NOT CONFUSING. GO THROUGH THE MOTIONS SLOWLY AND REPEAT EACH SIGNAL UNTIL YOU ARE POSITIVE THAT THE PILOT UNDERSTANDS YOU.	

CRUISING ALTITUDES

CRUISING ALTITUDES WITHIN CONTROL AREAS AND ZONES — During VFR conditions aircraft at altitudes of 3000 feet or more above the surface within control zones and control areas, including controlled airways, must be flown at odd or even 1000-foot levels appropriate to the direction of flight. "Odd" and "Even" indicators are shown on Coast and Geodetic Survey Radio Facility Charts. Under IFR conditions within control zones and control areas, including controlled airways, altitudes will be flown in accordance with ATC clearances.

The following rules will govern the altitude at which aircraft shall fly when making VFR flights along controlled civil airways:

Green and Red Airways and Even-numbered VOR Airways

Eastbound flights. Aircraft shall fly at an ODD thousand-foot altitude above sea level (such as 3000, 5000, or 7000 feet).

Westbound flights. Aircraft shall fly at an EVEN thousand-foot altitude above sea level (such as 4000, 6000, or 8000 feet).

Amber and Blue Airways and Odd-numbered VOR Airways

Northbound flights. Aircraft shall fly at an ODD thousand-foot altitude above sea level (such as 3000, 5000, or 7000 feet).

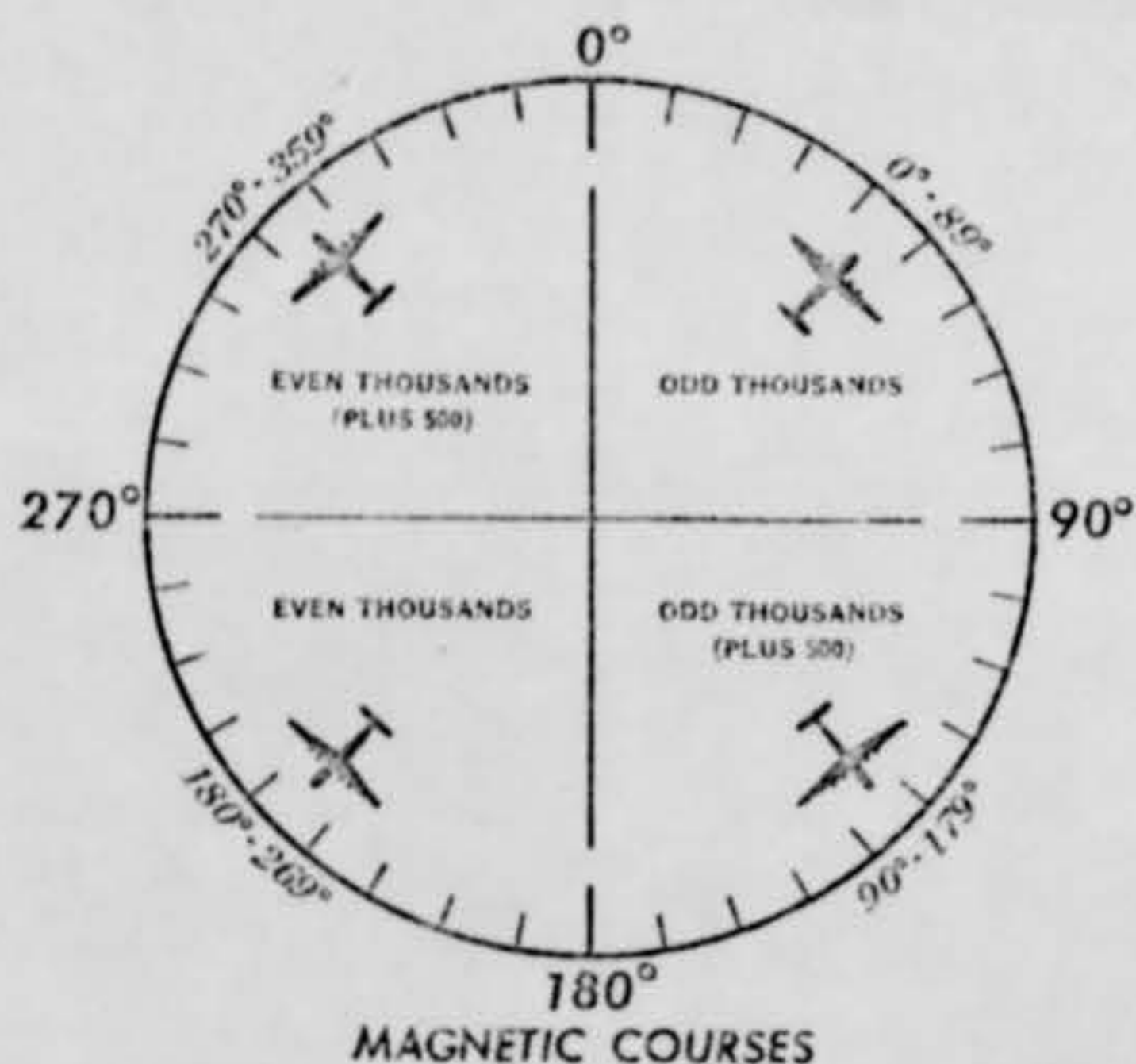
Southbound flights. Aircraft shall fly at an EVEN thousand-foot altitude above sea level (such as 4000, 6000, or 8000 feet).

The following rules will apply on segments where color airways and VOR airways overlap:

Where a color airway coincides with a VOR airway, the ODD or EVEN rule for the appropriate color airway will apply.

Where no color airway is involved and an Even-numbered and an Odd-numbered VOR airway coincide, the ODD or EVEN altitude rule for the Even-numbered VOR airway will apply.

CRUISING ALTITUDES OUTSIDE CONTROL AREAS AND ZONES—When the flight visibility is less than three miles, aircraft must be flown at an altitude appropriate to the magnetic course as illustrated below.



(Illustration applies only to flight outside of control areas and control zones, including uncontrolled airways)

VISUAL FLIGHT PLAN

The Civil Air Regulations do not require that a VFR flight plan be filed for a VFR flight. However, the filing of such a flight plan is desirable, and the CAA urges that VFR flights be covered by flight plan whenever practicable as such filing materially assists in search and rescue operations if such action becomes necessary. Flight plans may be submitted to the nearest CAA airway communications station either in person or by telephone. Flight plans may be filed by radio if no other means are available but this practice should be avoided whenever possible to reduce congestion of radio channels.

If filing the flight plan, the pilot should state the name of the CAA communications station with which he will close his flight plan. If the destination is not served by a CAA communications station, or is in Canada or Mexico, the method by which the arrival report will be filed must be clearly understood by all concerned. VFR flight plans are transmitted via CAA communications facilities only to the CAA communications station with which the pilot has stated his arrival report or closing of flight plan will be filed. One hour after the estimated time of arrival, if no notice of arrival is received, queries are sent out over CAA communications systems to determine the location of the aircraft. If no information concerning the aircraft is obtained after an exhaustive communications inquiry, search and rescue operations are inaugurated. Inasmuch as the government may be put to considerable expense in determining the location of aircraft when an arrival report is not filed, it is vitally necessary that all pilots make certain that notice of arrival is filed. If flight is terminated prior to reaching the point of intended destination specified in the flight plan, pilots should contact the nearest CAA communications station and request that an arrival report be transmitted over CAA facilities to the CAA communications station with which the pilot stated the arrival report would be filed.

Pilots of aircraft operating on VFR flight plan who desire to make flight progress reports, should include in the report the phrase: "VFR FLIGHT PLAN FROM (blank) TO (blank)."

The flight plan shall contain the items listed under INSTRUMENT FLIGHT RULES - Flight Plan, except "Alternate Airport" and except that a visual flight rule flight plan should always specify "VFR" as a cruising altitude. The use of this term in lieu of an actual altitude indicates that the pilot intends to fly in accordance with Visual Flight Rules. Aircraft may be operated in accordance with VFR above a well defined cloud or other formation provided, climb to and descent from such "on top" flight can also be made in accordance with VFR.

PILOTS GUIDE FOR COMMUNICATING WITH AIRWAY STATIONS

PILOTS - never hesitate to use your radio. Remember that talking by radio is almost the same as talking on your home telephone.

The following are typical examples of two-way communication with airway stations.

IDENTIFICATION OF AIRWAY STATIONS: CAA Airway Communications Stations are identified by the name of the station followed by the word "RADIO".

Example: "CLEVELAND RADIO".

IDENTIFICATION OF AIRCRAFT: Your aircraft is identified by the make of aircraft followed by the certificate number and letter suffix, if any.

Example: "STINSON ONE THREE SIX FIVE".
"STINSON ONE THREE SIX FIVE-Y".

Example of pilot calling an airway station:

"CLEVELAND RADIO - THIS IS - STINSON ONE THREE SIX FIVE - OVER".

After communication has been established, an abbreviated form of identification may be used, if desired, using the last three units of the certificate number only.

The airway station will normally answer on the radio range or radiobeacon frequency. If reply is desired on other than the radio range or radiobeacon frequency, pilots should indicate the frequency on which the station reply is expected.

Example: "CLEVELAND RADIO - THIS IS - STINSON ONE THREE SIX FIVE - REPLY ON ONE ELEVEN POINT ONE MEGACYCLES - OVER".

After the airway station has answered your call, proceed with your message without further call up other than preceding the message with the aircraft identification. Your message may consist of your position report, a request for weather data or other information that may be required to assist you to your destination.

Example: "STINSON ONE THREE SIX FIVE - OVER CLEVELAND AT ELEVEN TWENTY - FOUR THOUSAND FEET ON VFR FLIGHT PLAN FROM YOUNGSTOWN TO TOLEDO - WHAT IS THE WEATHER AT TOLEDO - OVER".

If you are flying VFR, a position report is not required, however, it is to your advantage that the stations along your route of flight know your position at all times in order that assistance can be rendered should you encounter difficulty.

Flight plans may be filed while in flight, with a CAA Airway Communications Station, if your departure was from an airport not served by such a station.

The word "ROGER" is used to acknowledge receipt of a message.

The word "OUT" is used when a conversation is ended and no response is expected.

Example: "STINSON ONE THREE SIX FIVE - ROGER, OUT".

The words "SAY AGAIN" are used if a message was not understood and a repetition is desired.

The words "STAND BY" are used to indicate that a return call will be made as soon as practicable.

Examples: "STINSON ONE THREE SIX FIVE - SAY AGAIN, OVER".
"STINSON ONE THREE SIX FIVE - STAND BY".

ENROUTE FLIGHT SERVICE

All airway communications stations are ready to provide pilots with enroute flight information or assistance at any time. You may call any CAA RADIO for latest weather along your route of flight, upper wind velocities, airport conditions, and other flight information. If you become lost or uncertain of your position, call any CAA RADIO. Personnel at CAA airway communications stations are trained to assist pilots in establishing position by any of the following methods: (a) Visual reference to terrain features; (b) Low frequency radio range orientation; (c) VHF omni-range indications (triangulations).

RADIOTELEGRAPH CODE AND PHONETIC ALPHABETS

U.S. •	INT'L (ICAO)	U.S. •	INT'L (ICAO)	U.S.	INT'L (ICAO)
A-ABLE	ALFA	N-NAN	NECTAR	0-ZEE-ROH	ZEE-RO
B-BAKER	BRAVO	O-OBOE	OSCAR	1-WUN	WUN
C-CHARLIE	COCA	P-PETER	PAPA	2-TOO	TOO
D-DOG	DELTA	Q-QUEEN	QUEBEC	3-THU-REE	TREE
E-EASY	ECHO	R-ROGER	ROMEO	4-FO-WER	FOW-er
F-FOX	FOXTROT	S-SUGAR	SIERRA	5-FI-YIV	FIFE
G-GEORGE	GOLF	T-TARE	TANGO	6-SIKS	SIX
H-HOW	HOTEL	U-UNCLE	UNION	7-SEV-VEN	SEV-en
I-ITEM	INDIA	V-VICTOR	VICTOR	8-ATE	AIT
J-JIG	JULIETT	W-WILLIAM	WHISKEY	9-NI-YEN	NIN-er
K-KING	KILO	X-XRAY	EXTRA		
L-LOVE	LIMA	Y-YOKE	YANKEE		
M-MIKE	METRO	Z-ZEBRA	ZULU		

* The US phonetic alphabet (Able, Baker, Charlie etc.) has been supplanted by the International (ICAO) phonetic alphabet at all CAA communication stations as of April 1, 1952. However, the US phonetic alphabet will continue to be used upon request at the stations.

** CAA facilities will continue to use normal English pronunciation instead of the International pronunciation of the numbers.

SECTIONAL CHARTS

The sectional aeronautical chart series provides complete coverage of the United States. An additional chart covers the Hawaiian Islands. These charts are designed primarily for piloting, which is also known as contact flying. They contain a maximum amount of cultural topographic features including important landmarks.

Sectional charts are revised at six-month periods to insure that the airman has the latest information available, and are sold through authorized agents located at airports and principal cities throughout the United States. They may also be obtained by writing to the Director, U. S. Coast and Geodetic Survey, Department of Commerce Building, Washington 25, D. C.

In the lower right-hand corner is printed the date of the chart. Below this the next scheduled printing is indicated. If the date of the chart is more than six months old, users are advised to check with the notices (Dates of Latest Prints) on file with authorized agents. Charts that carry older dates than those shown in large type on this list of dates are obsolete.



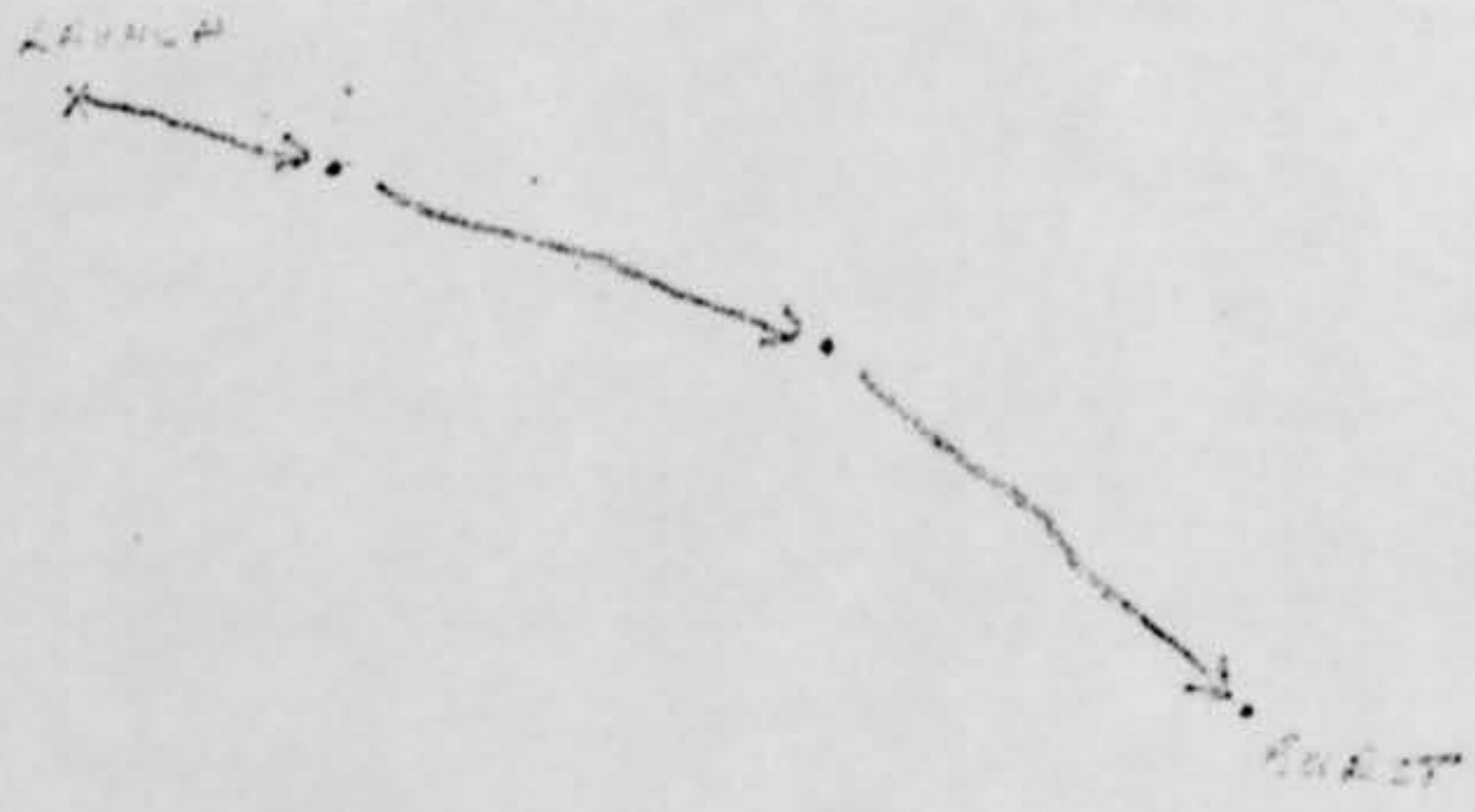
ADDITIONAL AERONAUTICAL CHARTS PUBLISHED AND PRINTED BY THE U. S. COAST AND GEODETIC SURVEY

Planning Charts	AP-9 and 3069a 3060d	1:5,000,000 1:3,000,000
Aircraft Position Charts	3071 North Atlantic 3073 Caribbean Sea	1:5,000,000 1:5,000,000
Route Charts	Show limited topographic information, selected aerodromes, and major radio data.	1:2,000,000
Direction Finding Charts	Six charts cover the United States	1:2,000,000
World Aeronautical Charts	Forty-three charts cover the United States	1:1,000,000
Flight Charts	Thirty-seven charts cover the principal air routes of the United States	1:1,000,000
Local Charts	Designed to provide additional landmark information and topographic detail for important air terminals.	1:250,000
Instrument Approach and Landing Charts	More than 475 charts designed for use in manuals with Radio Facility Charts	Approach 1:250,000 Landing 1:31,580
Instrument Landing System Charts	Similar to Instrument Approach and Landing charts but printed in black and halftone instead of color. Show very little detail.	Approach 1:250,000 Landing 1:75,000 1:90,000
Airport Obstruction Plans	Show runways and selected aerodrome information and objects in the vicinity that may be hazards to air traffic.	1:12,000
Radio Facility Charts	Sixty-five charts of the U. S. show all radio facilities, airways and other information necessary for instrument flying.	1:2,000,000

A catalog giving a complete list and description of the various series is available upon request.



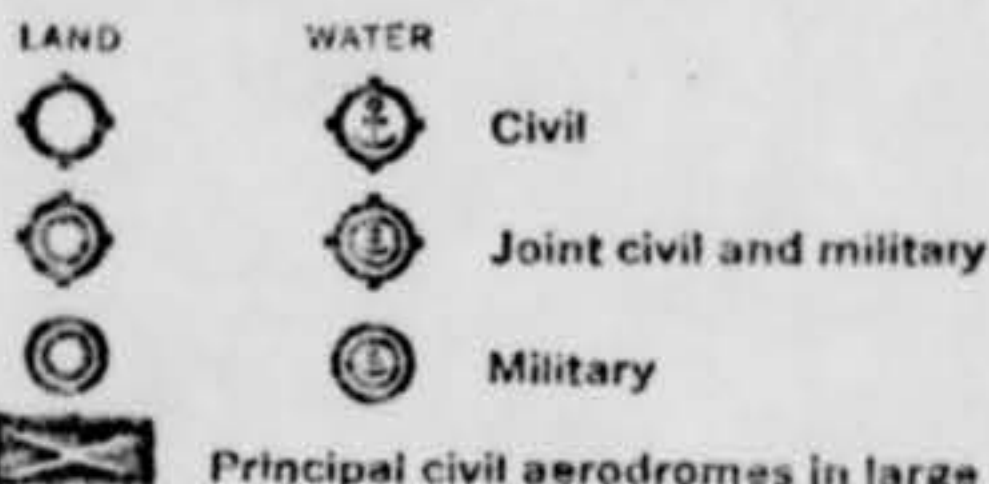
Wind direction →



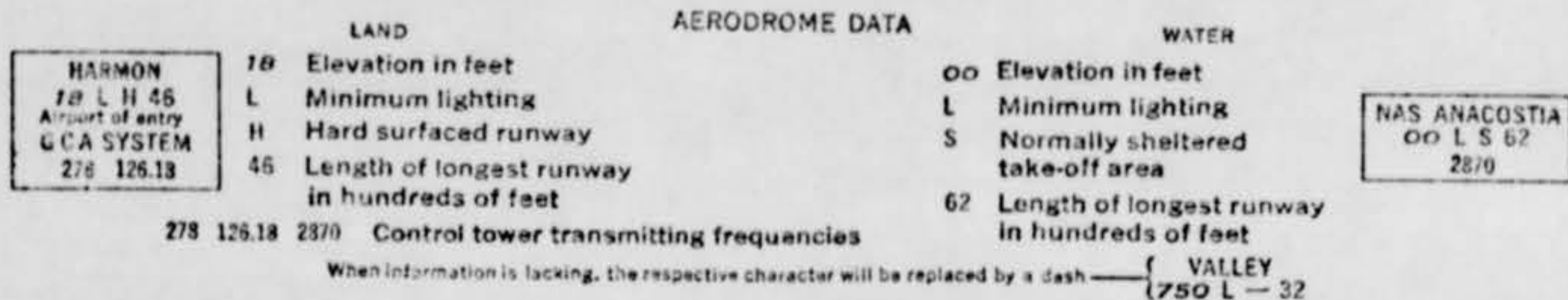
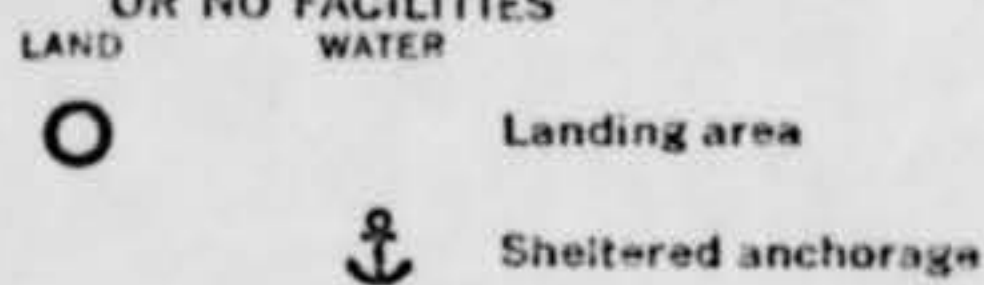
AERONAUTICAL SYMBOLS

AERODROMES

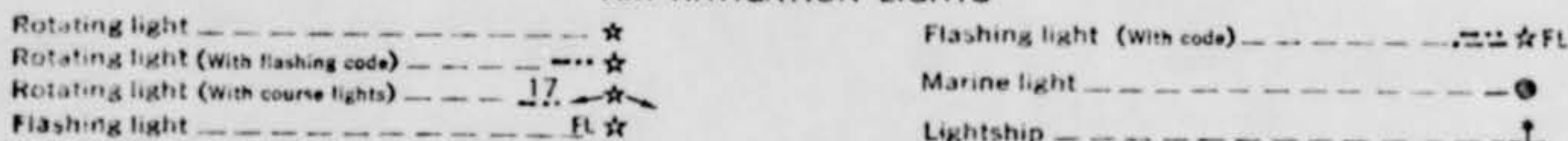
AERODROMES WITH FACILITIES



AERODROMES WITH EMERGENCY OR NO FACILITIES



AIR NAVIGATION LIGHTS

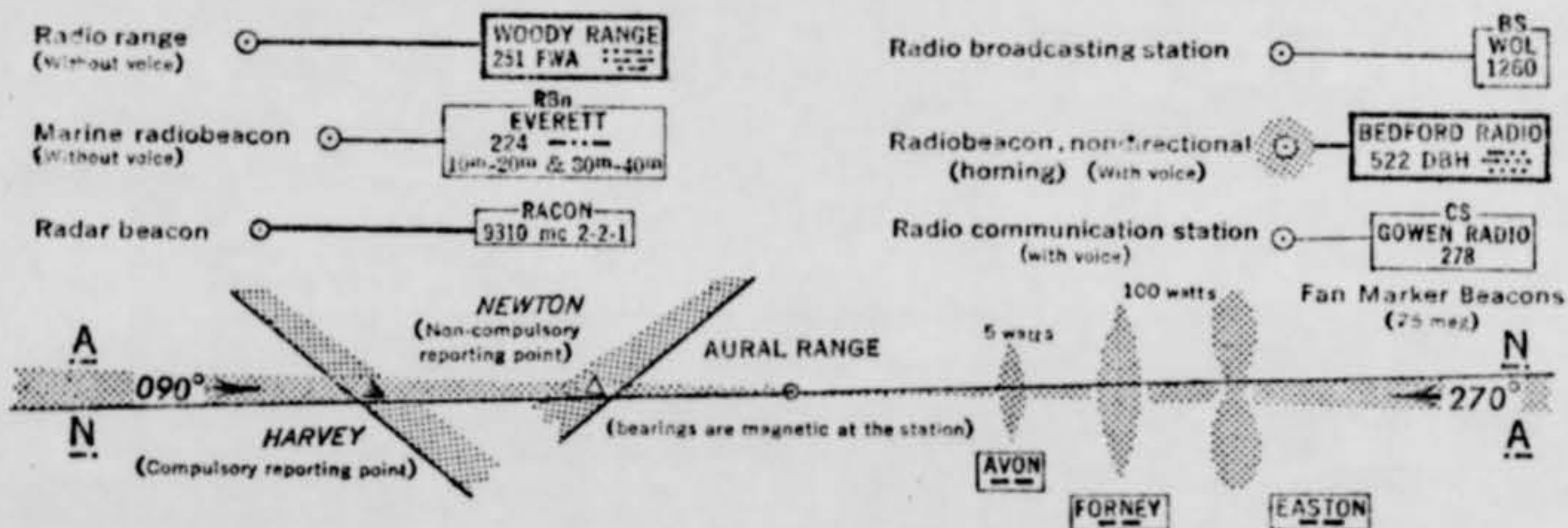


F-fixed FL-flashing Occ-occulting Alt-alternating Co-group R-red W-white G-green B-blue (U)-unwatched SEC-sector sec-second
 Marine alternating lights are red and white unless otherwise indicated. Marine lights are white unless colors are stated.

RADIO FACILITIES

Use of the word "Radio" within the box indicates voice facilities

All radio facility data are printed in blue with the exception of certain LF/MF facilities such as tower frequencies, radio ranges and associated airways, which are printed in magenta.



VHF FOUR-COURSE VISUAL-AURAL RADIO RANGE (VAR)

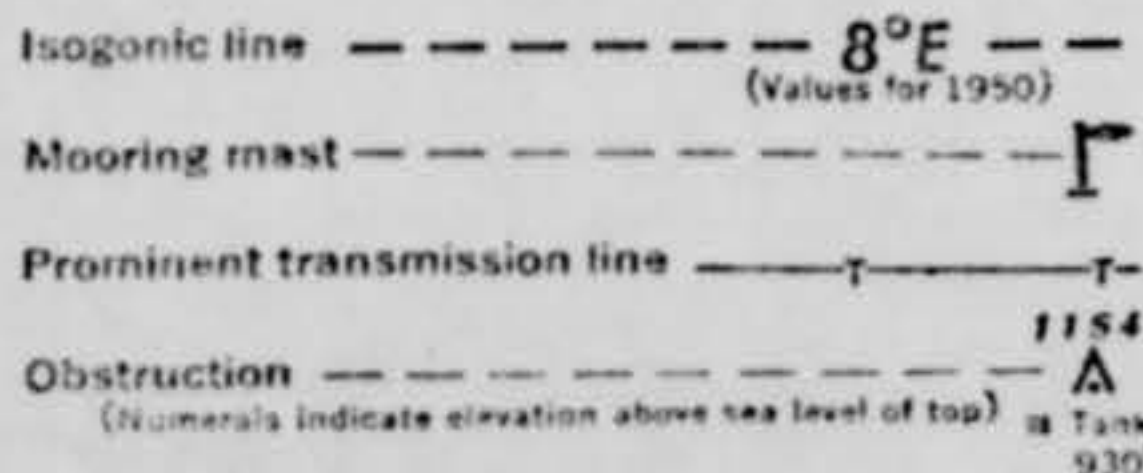
The Blue and Yellow Visual Sectors are indicated by a B and Y; the Aural Sectors by A and N. Letter preceding frequency in box indicates channel.

VHF OMNI-DIRECTIONAL RADIO RANGE (VOR)

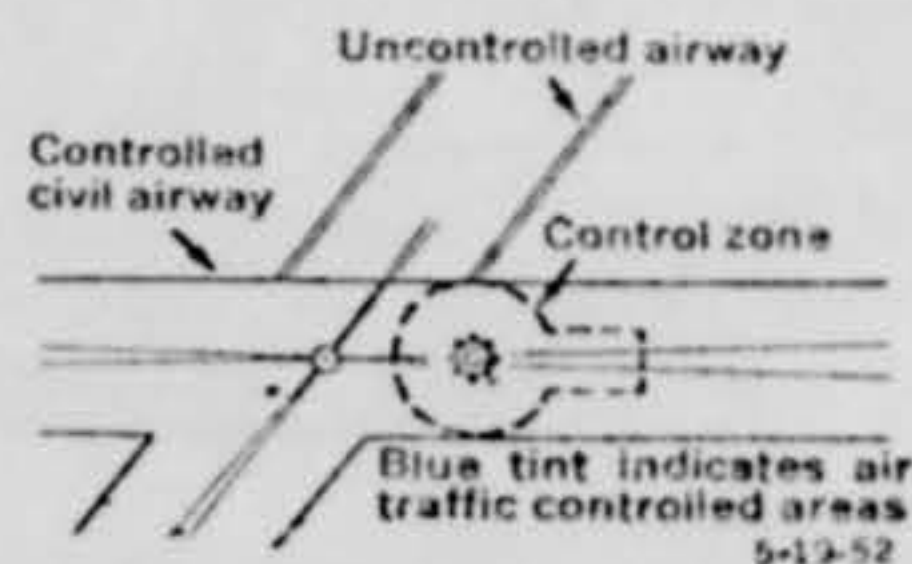
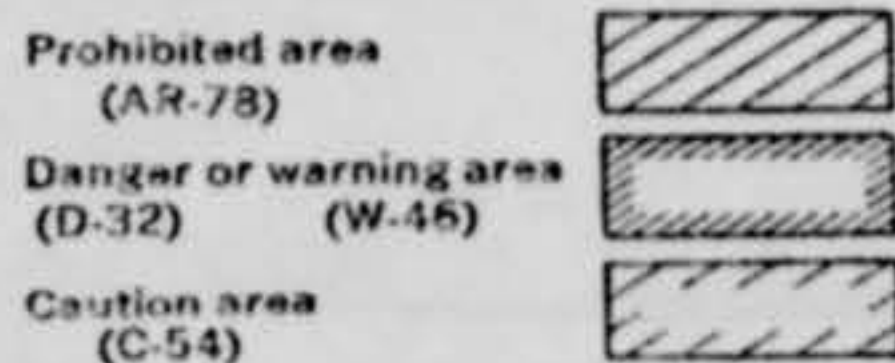


The VHF omni-directional range provides visual track guidance along any selected radial from the station out to a distance of approximately 50 miles when flying at the minimum instrument altitude. These ranges operate in the frequencies between 112 and 118 megacycles and require a special omni range type receiver to make use of the navigational features. Also provided are simultaneous voice communication and 3-letter (coded) identification. In operation, the pilot selects a course by setting the pointer on a course or radial selector to the desired magnetic bearing and then flies that course by reference to a cross pointer instrument.

MISCELLANEOUS



Restricted areas are numbered, and are indicated on the charts as follows:



V.H.F. OMNI-RANGE (VOR)

The V.H.F. omni-range operates within the 112-118 megacycle band. In this band it is relatively free from atmospheric and precipitation static and interference from other radio stations. Furthermore, it is not limited to four courses as is the A-N range, but provides definite guidance on any course, to or from the station, the pilot may select. That is why it is called the Omni (Directional) Range. At minimum instrument altitudes the VOR gives reliable indications up to about 50 statute miles (43 nautical miles), depending on enroute terrain.

In flying the V.H.F. omni-range, the pilot uses three basic instruments. The first is the Flight Path Deviation Indicator (cross-pointer instrument), the same type used for the visual-aural range (VAR) and the ILS localizer. The vertical needle of this instrument tells the pilot whether he is right or left of the desired course. The second is an Omni-bearing Selector, manually operated by the rotation of a small knob, by which the pilot selects the course he desires to fly. When the cross-pointer needle is centered, the omni-bearing selector indicates the magnetic bearing of the aircraft either to or from the station. The third is a "TO-FROM" indicator which shows whether the bearing indicated by the Omni-bearing Selector is from or to the station. Furthermore, the "TO-FROM" needle can tell a flier when his aircraft is too far from the VOR or is otherwise receiving a weak signal. In this case the needle points to a red sector instead of TO or FROM.

In operation, the pilot selects a course by adjusting the omni-bearing selector to the desired magnetic bearing, and then maintains it by keeping the cross-pointer needle centered. If the aircraft is correctly aligned with the TO-FROM indications, when the needle swings to the right, for example, it indicates that the course selected lies to the right.

For example, an aircraft is due south of a VOR station. If its pilot desires to fly to the station, he sets the omni-bearing selector to indicate 0°. The "TO-FROM" indicator will then point to the word "TO". As the aircraft passes over the station the "TO-FROM" indicator will point to the word "FROM". If a turn of 180° is made north of the station, although the vertical cross-pointer needle will again become centered, the "TO-FROM" indicator will still point to "FROM". The pilot, however, will now find that he must fly "Away from the needle" to stay on course. This shows him that the "TO-FROM" indicator is incorrect. So, the pilot now rotates his omni-bearing selector to 180°. After he has done this, the "TO-FROM" indicator shifts to the "TO" position, and flying "Toward the needle" will keep him on course.

TABLE OF V.H.F. RECEPTION DISTANCES

With the increasing use of VHF and UHF frequencies for communication and navigation it appears desirable to publicize the reception distances for these frequencies. They, therefore, are tabulated below:

Feet Above Ground Station*	Reception Distance**	
	Statute Miles	Nautical Miles
500	30	25
1,000	45	40
3,000	80	70
5,000	100	85
10,000	140	120
15,000	175	150
20,000	200	175

*No physical obstruction intervening.

**Based on zero elevation of the facility. (Distances to nearest even 5 miles).

If you are using a VHF transmitter, remember that its effective range increases with your altitude. Don't attempt to contact a station unless you are within "line of sight".

U.S. WEATHER BROADCASTS AND TRANSMISSIONS

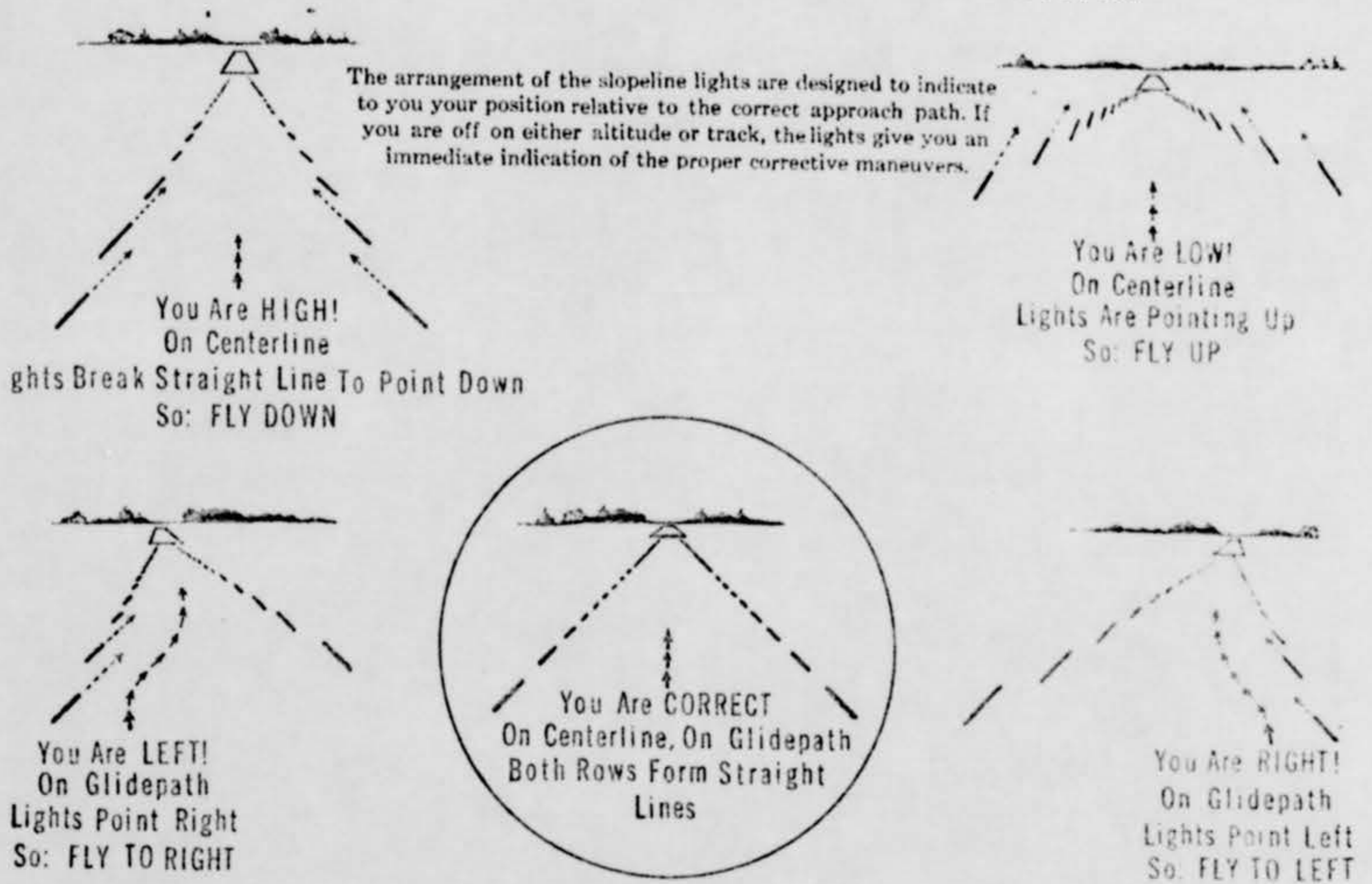
All continuously operated CAA radio range and radio beacon stations having voice facilities on the range or radio beacon frequencies broadcast weather reports and airway information at 15 and 45 minutes past each hour. The 15-minute past-the-hour broadcast is an "airway" broadcast consisting of weather reports from important terminals located on airway (s) within approximately 400 statute miles (350 nautical miles) of the station. The 45-minute-past-the-hour broadcast is an "area" broadcast consisting of weather reports from locations within the flight information area of the station.

The broadcast consists of the local weather report and the latest available surface reports from other locations. Reports more than one hour old are not broadcast. Local winds aloft are broadcast 4 times after the broadcasts at 6:15 and 12:15 A.M., and P.M., E.S.T. The velocities of winds aloft are broadcast in knots.

At selected stations the Weather Bureau provides a local terminal forecast covering the next two hours. This forecast is broadcast, when available, immediately following the local weather report.

Pilots enroute are requested to avoid, if possible, calling airway communications stations at or about 15 and 45 minutes past the hour (which are the scheduled broadcast times) to request weather information, as such calls may delay starting of scheduled broadcasts and cause inconvenience to other persons who are dependent on the broadcasts for weather reports.

HIGH INTENSITY SLOPELINE APPROACH LIGHT SYSTEM



U. S. DANGER AREAS ON LOS ANGELES SECTIONAL CHART

NO.	NAME	ACTIVITY	USING AGENCY	ALTITUDE	TIME
D-100	Point Mugu	Pilotless Aircraft and Guided Missiles Firing	Naval Air Missiles Test Center, Point Mugu, Calif.	Unltd.	Unltd.
D-276	Camp Irwin	Bombing and Gunnery	George AFB, Calif.	To 30,000	0800-1800
D-277	Trona	Pilotless Aircraft, Bombing and Aerial Gunnery	12th Naval District	Unltd.	Unltd.
D-278	China Lake	Aerial Gunnery	12th Naval District	Unltd.	Days
D-279	Muroc Lake	Bombing, Strafing, Gunnery and Accelerated Speed Range	Edwards AFB, Calif.	To 45,000	Days
W-289	Point Mugu	Pilotless Aircraft and Guided Missiles Firing	Naval Air Missiles Test Center, Point Mugu, Calif.	Unltd.	Unltd.
D-292	San Pedro	Artillery Firing	ORC Training Center, Ft. MacArthur, Calif.	To 3,000	0800-1700
D-306	Mojave	Air-to-Ground Rocketry and Gunnery	Mojave AFB, Calif.	Unltd.	Unltd.
D-344	Bullion Mts.	Artillery Firing	11th Naval District	Unltd.	Unltd.
W-412	Santa Cruz Island	Aerial Mine Training	11th Naval District	To 3,000	Unltd.
C-417	Kingman	Radio Controlled Airplane Flights	Globe Corp., Aircraft Division	To 3,000	Unltd.

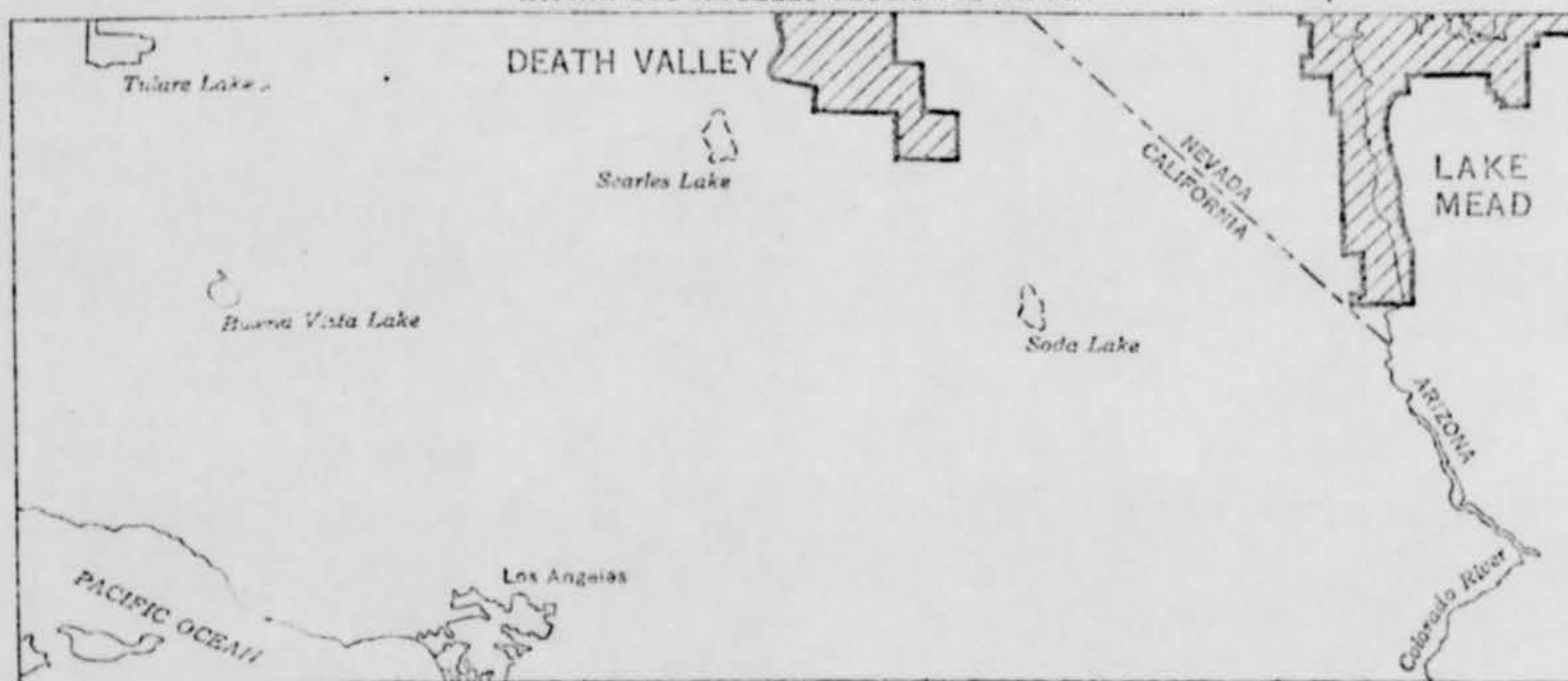
Altitude given in feet. AR - Airspace Reservation (Prohibited) C - Caution D - Danger W - Warning 8 10 52

No person shall operate an aircraft within an Airspace Reservation or Danger Area unless permission for such operation has been issued by appropriate authority.

Aircraft are not restricted from flying through Caution Areas; however, extreme caution should be exercised by pilots flying through such areas.

NATIONAL PARKS

WITHIN LOS ANGELES SECTIONAL CHART

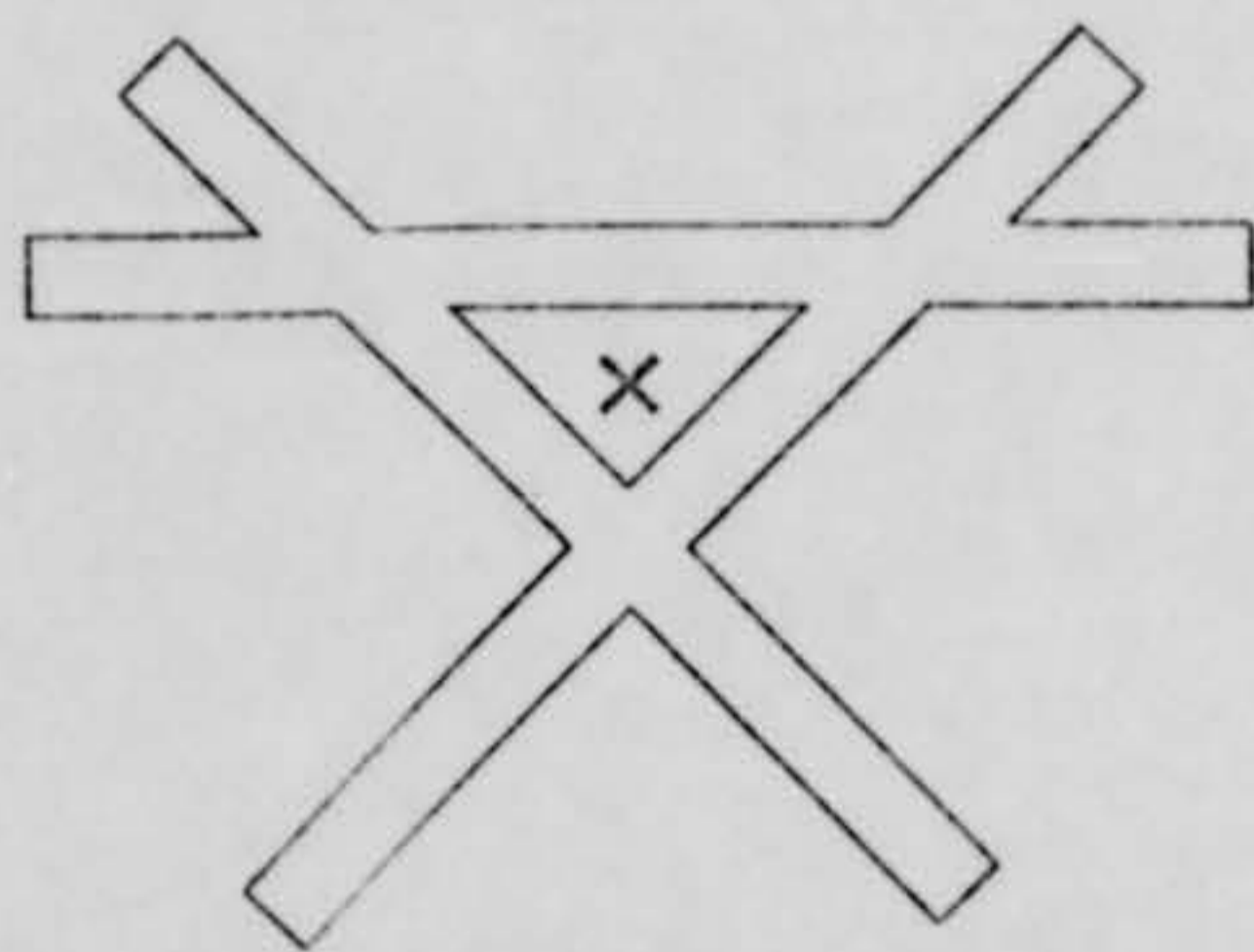


NATIONAL PARKS REGULATION. No person shall land aircraft on land or water, on any federally owned area within any national park or monument, except for emergency rescue in accordance with the directions of the officer in charge of the park or monument or where such landing is caused by unforeseeable circumstances beyond the control of such person, other than at one of the following designated landing areas: (a) Death Valley National Monument, California, Furnace Creek Airport; (b) Jackson Hole National Monument, Wyoming, Jackson Airport; and (c) Lake Mead Recreational Area Arizona and Nevada, Boulder City Municipal Field.

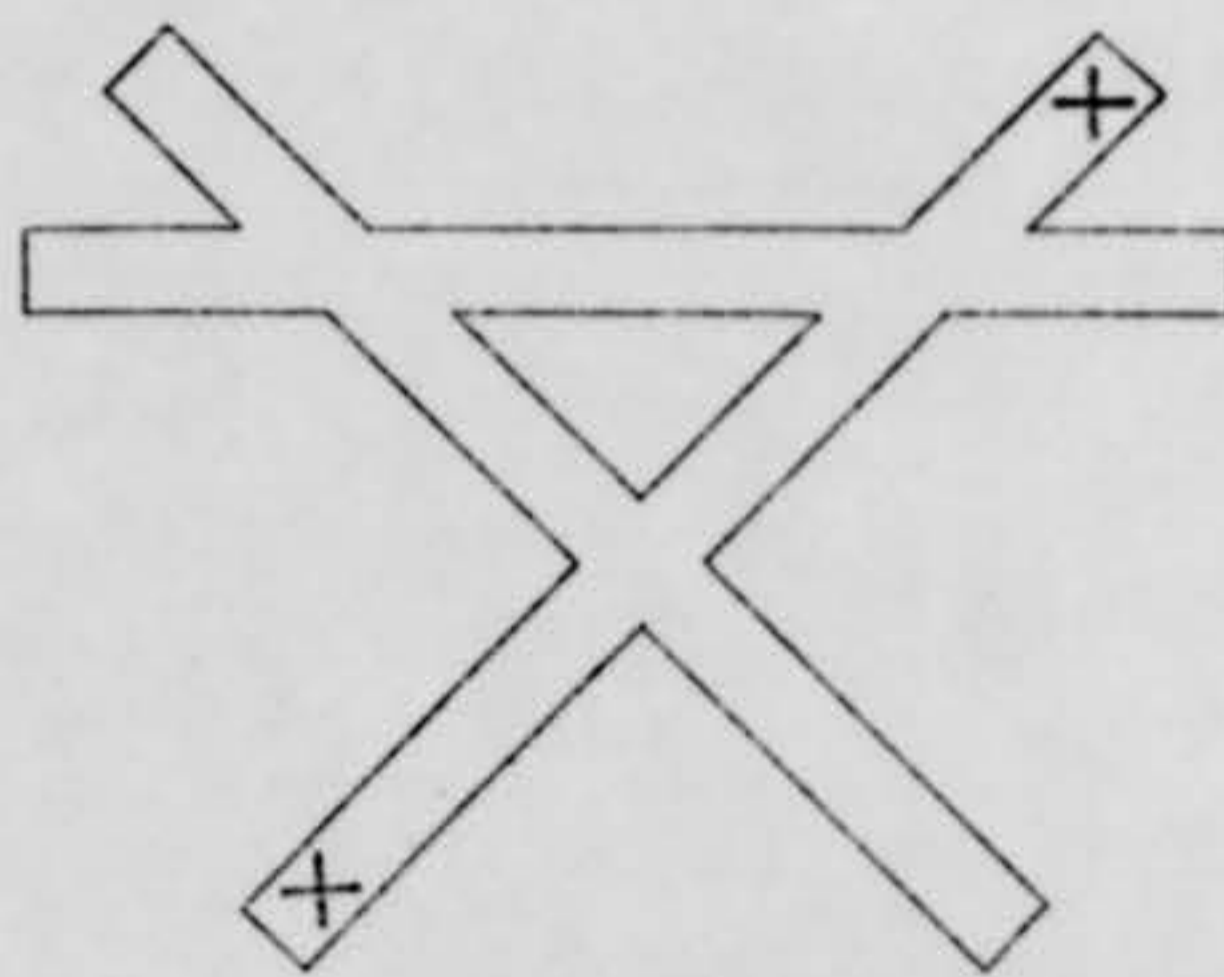
CLOSED AIRPORT AND RUNWAY MARKER

When you see a large "X" in the center of an airport, that airport is closed. Do not attempt a landing!
When you see an "X" on a runway, that runway is closed and hazardous for use. Do not use it!

TYPICAL INSTALLATIONS

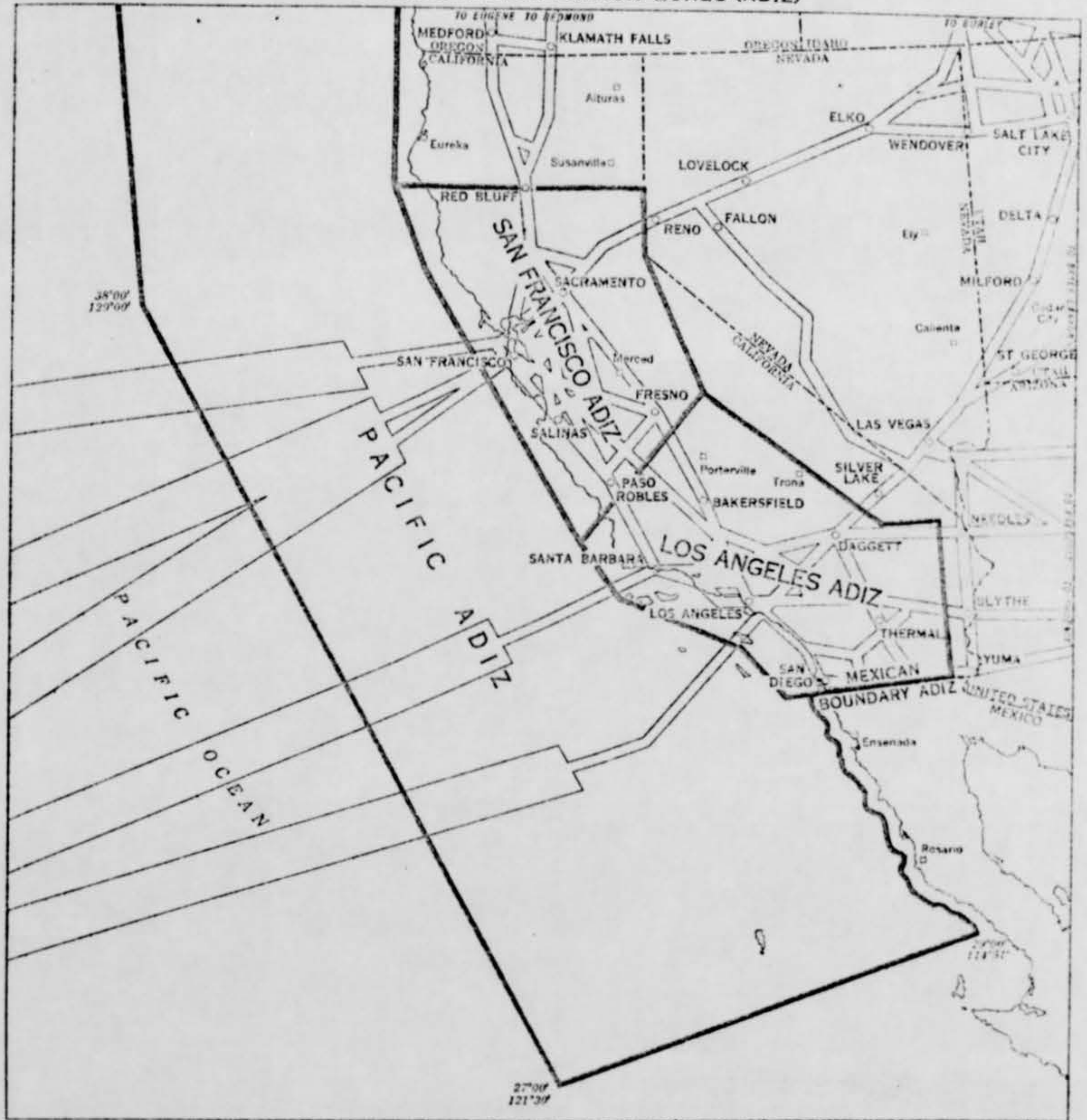


ENTIRE AIRPORT CLOSED



ONE RUNWAY CLOSED

AIR DEFENSE IDENTIFICATION ZONES (ADIZ)



In the United States several areas have been designated as Air Defense Identification Zones (ADIZ) by the Administrator of Civil Aeronautics in the interest of national security. All aircraft entering the Air Defense Identification Zones are required to file flight plans, except aircraft entering from within the Continental Limits of the United States or operating within the Seattle, San Francisco, Los Angeles, Albuquerque, Knoxville, Great Falls, Minneapolis, Traverse City, and Bangor Zones, at altitudes of less than 4000 feet above the immediate terrain. Any person who knowingly or willfully fails to do so is subject to penalties of one year in prison or \$10,000 fine. The Air Defense Identification Zones are identified as follows: Seattle ADIZ, San Francisco ADIZ, Los Angeles ADIZ, Atlantic ADIZ, Pacific ADIZ, Albuquerque ADIZ, Knoxville ADIZ, Great Falls ADIZ, Minneapolis ADIZ, Traverse City ADIZ, Bangor ADIZ, Mexican Boundary ADIZ, and Canadian Boundary ADIZ. These areas are indicated on the face of Aeronautical Charts and are so labeled. For additional information see Civil Air Regulations Part 620.

AERODROMES - LOS ANGELES SECTIONAL CHART

LOCATION	NAME	GEOGR. POSITION	TYPE	ELEV.	FACILITIES				REMARKS	
					FUEL (OCTANE)	REPAIRS	RUNWAYS NO. LONGEST	LIGHTS		
Needles, Calif.	Bolam	34°29'-114°25'	Com.	490	80		1	1500		Use Caution
Needles, Calif.	Needles	34°46'-114°37'	Mun.	990	91, 100		2	5802H	Rnwy.	Attend. on call 24 hrs. from Riverview Airport
Needles, Calif.	Riverview	34°49'-114°37'	Com.	550	80/87	Major	2	2550	B-2, circle fld.	
New Cuyama (Taft), Calif.	New Cuyama	34°56'-119°41'	Priv.	2225			1	4000		
Oak View, Calif.	Casitas	34°24'-119°19'	Priv.	500			1	1100		Emergency only
Ojai, Calif.	Henderson	34°25'-119°17'	Com.	600			1	1800		Unattended
Ontario, Calif.	Ontario Int'l.	34°03'-117°37'	Mun.	952	80/87, 91/98, 100/130	Major	2	6200H	Rnwy., appr.	Attend. 24 hrs.
Oxnard (Camarillo), Calif.	Broome	34°08'-119°03'	Priv.	40			1	2000		Emergency only
Oxnard, Calif.	Oxnard-Ventura Co.	34°12'-119°11'	Mun.	43	80/87, 91	Major	2	4515H	Runway	Attend. 24 hrs.
Palmdale, Calif.	Los Angeles Co.-Palmdale	34°37'-118°05'	Mun.	2549	80/87, 91, 100	Major	3	7019H	Runway	Attend. 24 hrs.
Parker, Ariz.	Parker	34°09'-114°16'	Mun.	430	80		3	3200		
Pixley, Calif.	Pixley	35°57'-119°18'	Mun.	264			1	2050H		
Poe (Heeter), Calif.	Poe	34°48'-118°30'	Priv.	1850	80/87		1	4000		Attend. 24 hrs.
Pomona, Calif.	Brackett	34°05'-117°47'	Com.	985	80/87, 91/98	Major	1	2400	Port., prior req.	
Port Huenene, Calif.	NAS Point Mugu	34°07'-119°08'	Navy	13	A+B	Minor	1	5500H	Port., flood	Official business only
Redlands, Calif.	Redlands	34°05'-117°09'	Com.	1574			1	2500		Closed
Rialto, Calif.	Miro-Fontana	34°07'-117°24'	Priv.	1435			1	2500		Closed, extremely hazardous
Rialto, Calif.	Morrow	34°04'-117°22'	Com.	1100	80/87, 91	Major	1	3290H		
Rice (Thermal), Calif.	Rice	34°04'-114°49'	Priv.	832			2	5000H		Unattended
Ridgegrove, Calif.	Burum	35°48'-119°07'	Priv.	470			1	1450		Emergency only
Ridgecrest (Inyokern), Calif.	Davis	35°37'-117°40'	Com.	2500	80, 91, 87	Major	2	4000	Strip, circle field	Attend. 24 hrs.
Rosamond, Calif.	White Oaks	34°57'-118°29'	Priv.	4100			1	3600		Attend. irreg.
Rosamond, Calif.	Flying Bar Ranch	34°49'-118°09'	Priv.	2305			1	2100		Emergency only
Rosemead (Los Angeles), Calif.	Pasadena-Rosemead	34°04'-118°03'	Com.	255	80/87		1	3000		
San Bernardino, Calif.	San Bernardino	34°11'-117°19'	Com.	1455	80/87		3	2800H	Rnwy., prior req.	
San Bernardino, Calif.	Tri-City	34°04'-117°16'	Com.	1015	80/87, 91, 95	Major	3	3200	Strip	Attend. 24 hrs.
San Fernando, Calif.	San Fernando	34°17'-118°25'	Com.	1170	80/87	Major	1	2450	Bndy., prior req.	
San Fernando, Calif.	Whiteman Airpark	34°16'-118°25'	Com.	1000	80/87	Major	1	3000		
Santa Barbara (Goleta), Calif.	Santa Barbara	34°25'-119°50'	Mun.	14	80, 91, 100	Major	5	5945H	Runway	
Santa Monica, Calif.	Santa Monica Mun.	34°01'-118°27'	Mun.	175	80, 91	Major	2	5000H	Runway	2 way radio reqd. Closed after 11 PM
Santa Paula, Calif.	Harvey	34°22'-119°02'	Priv.	290			1	1900		Closed, Emergency only
Santa Paula, Calif.	Santa Paula	34°21'-119°03'	Com.	240	80/87	Major	1	2150	B-2, prior req.	91 octane avail. on request.
Santa Susana, Calif.	Santa Susana	34°16'-118°43'	Com.	955	80		1	1800		Attend. 24 hrs.
Shafter, Calif.	Shafter-Kern County	35°30'-119°11'	Mun.	425	80/87	Major	3	4550H	Bndy., circle field	
Shoshone, Calif.	Shoshone	35°58'-118°16'	Mun.	1580			1	2300		Unattended
Silver Lake (Baker), Calif.	CAA Site 18	35°20'-116°05'	Inter.	919			All way	4000	Boundary	Attend. 24 hrs.
Simi, Calif.	Montgomery Corp.	34°15'-118°47'	Priv.	925	80/87		1	2150		Use caution
Simmer, Calif.	Wherling Ranch	35°15'-119°55'	Priv.	2000			3	2650		Use at own risk
Solomint, Calif.	6 S Ranch	34°25'-118°28'	Com.	1350	80/87		1	2300		Closed Sundays
Taft, Calif.	Parker	35°04'-119°13'	Priv.	580			All way	3000H		Emergency only
Taft, Calif.	Taft-Kern County No. 2	35°08'-119°27'	Mun.	873	80/87	Major	4	3800	Boundary	
Taft, Calif.	Taft-Kern County No. 11	35°07'-119°20'	Mun.	415			2	2600H		Fence across fld.
Taft, Calif.	Tank Farm	35°04'-119°08'	Priv.	513			4	3000H		Emergency only
Tehachapin, Calif.	Kern Co. No. 4	35°08'-118°26'	Mun.	3952	80		1	4500H		Attended irreg.
Topock, Ariz.	Kingman No. 5	34°43'-114°26'	Misc. Govt.	810			1	4500H		Closed
Topock, Ariz.	Lake Havasu	34°27'-114°21'	Com.	490	80/87		2	6000		Attend. 24 hrs.
Trona, Calif.	Trona	35°48'-117°20'	Mun.	1715			1	6000	Boundary	Unattended
Twentynine Palms, Calif.	Cones Field	34°09'-116°01'	Priv.	1900	80/87		3	1400		
Twentynine Palms, Calif.	"K" Field	34°09'-116°15'	Priv.	2360	80		3	2640		Attend. 24 hrs.
Twentynine Palms, Calif.	Twentynine Palms (Navy)	34°12'-116°03'	Navy	1761			2	4000H		Official business only.
Ventura, Calif.	Ventura Airpark	34°16'-119°17'	Com.	13	80/87, 91	Major	1	2450H	B-2, prior req.	
Victorville, Calif.	Circle M Ranch	34°27'-117°12'	Priv.	3000			2	3430		Unattended
Victorville, Calif.	Victorville '68"	34°28'-117°20'	Com.	3225	80/87		2	2640		Attend. 24 hrs.
Vidal, Calif.	Vidal	34°08'-114°30'	Priv.	590			1	2900		Unattended
Wasco, Calif.	Semi-Tropic	35°36'-119°29'	Priv.	300			1	4570H		Emergency only
Wasco, Calif.	Wasco-Kern County No. 5	35°37'-119°21'	Mun.	315	80, 91		2	3500		Attended irreg.
Whedder Ridge, Calif.	Junction	35°04'-118°58'	Priv.	548			1	2500		
Yermo, Calif.	Calico Guest Ranch	34°55'-116°49'	Com.	1925			1	2900		Use caution
Yucaipa, Calif.	Crafton Hills	34°02'-117°04'	Priv.	2350			2	2250		Emergency only
Yucca, Ariz.	Yucca	34°53'-114°08'	Mun.	2030			2	6000H		
Yucca Valley (Desert Hot Springs), Calif.	Yucca Valley Sky Corral	34°07'-116°28'	Com.	3334	80/87	Minor	1	3000		Attend. 24 hrs.

Fuel octane ratings listed by number are those available to civil aircraft, unless otherwise noted.

Military fuel is listed by letter code indicating octane ratings as follows: A+; 115/145, A; 100/130, B; 91/98, C; 73 or 80, J; JP-1, 3. The above listing does not include Air Force aerodromes.

*Joint civil & military operation; Air Force facilities at these fields are not listed.

Consult the latest Airman's Guide for changes in data subsequent to date of chart.

AERODROMES - LOS ANGELES SECTIONAL CHART

LOCATION	NAME	GEOGR. POSITION	TYPE	ELEV.	FACILITIES				REMARKS	
					FUEL (OCTANE)	REPAIRS	NO. RUNWAYS	LONGEST		LIGHTS
Adelanto, Calif.	El Mirage	34°37'-117°38'	Com.	2865	80, 87	Minor	4	3740H		
Adelanto (Helendale), Calif.	Sun Hill Ranch	34°45'-117°30'	Com.	3000	80		1	2300		Service on call
Adelanto (Victorville), Calif.	Grey Butte	34°34'-117°41'	Mun.	3015			4	3740H		
Alpaugh (Corcoran), Calif.	Von Glahn Ranch	35°57'-119°35'	Priv.	191	80/87		3	2850	Circle field	
Amargo, Calif.	Trenary	35°00'-117°38'	Priv.	2475			1	2700		
Amboy, Calif.	Conn	34°34'-115°45'	Priv.	670			2	2750		Attend. irreg.
Apple Valley (Victorville), Calif.	Apple Valley	34°32'-117°13'	Com.	2930	80/87		2	4200	Strip	Attend. 24 hrs.
Bagdad, Calif.	Bagdad	34°35'-115°53'	Misc. Govt.	700			3	3820		Unattended
Bakersfield, Calif.	Bakersfield Airpark	35°20'-119°00'	Com.	380	80, 87	Minor	1	3000H	Rnwy., port.	
Bakersfield, Calif.	Bakersfield-Kern Co. No. 1	35°25'-119°03'	Mun.	615	80/87, 91/98, 100/130	Major	3	5948H	Rnwy., hi-intens. rnwy.	
Bakersfield, Calif.	Pumpkin Center Airpark	35°16'-119°02'	Com.	350	80/87		1	2000		
Burstow, Calif.	Burstow	34°55'-117°01'	Com.	2150	80/87		3	2800H	B-2, circle fld.	Attend. 24 hrs.
Big Bear City (San Bernardino), Calif.	Big Bear City	34°18'-116°32'	Com.	6750			1	3700H		
Boron, Calif.	Boron	35°03'-117°49'	Priv.	2550			2	2700		
Boulder City, Nev.	Boulder City	35°58'-114°51'	Mun.	2463	80, 91	Major	3	6495	Strip, on call	
Bullhead City, Ariz.	Bullhead	35°10'-114°33'	Mun.	550			1	3000		
Burbank (Los Angeles), Calif.	Lockheed Air Terminal	34°12'-118°21'	Com.	763	80, 91, 100, 115		2	6000H	Rnwy., hi-intens. rnwy.	Only 2 useable runways.
Buttonwillow, Calif.	Buttonwillow-Kern Co. No. 15	35°25'-119°28'	Mun.	268	80		1	2700		
Cantello, Calif.	Conejo Valley	34°10'-118°52'	Com.	750	80/87	Major	1	2600		Attend. weekends only
Canardillo, Calif.	McMahan	34°09'-118°54'	Priv.	1000			1	2250H		Emergency only
Camp Irwin, Calif.	Bicycle Lake	35°17'-116°37'	Army	2450	C		2	8450	Rnwy. on req.	
Canoga Park, Calif.	Canoga Park	34°11'-118°38'	Priv.	810			1	500		Attend. irreg.
Carpinteria, Calif.	Parson's Ranch Airpark	34°23'-119°29'	Com.	210	80, 91		1	2000		
Chloride, Ariz.	Shep's Pleasant Valley	35°34'-114°18'	Priv.	3600			2	2300		
Claremont, Calif.	Cable-Claremont	34°05'-117°41'	Com.	1400	80/87, 91/98	Major	2	2150H	Rnwy., circle fld.	3350 ft. avail. Attend. 24 hrs.
Daggett, Calif.	CAA Site 13	34°51'-116°47'	Inter.	1927			2	6400H	Boundary	Attend. 24 hrs.
Delano, Calif.	Delano-Kern Co. No. 3	35°45'-119°14'	Mun.	315	80/87	Major	2	6000H	B-2	
Delano, Calif.	Dunlap	35°44'-119°07'	Mun.	625			All way	2340H		
El Monte, Calif.	El Monte	34°05'-118°02'	Com.	300	80/87	Major	1	2000H	Rnwy., electric car Circle field	Attend. 24 hrs.
Essex, Calif.	Essex	34°48'-115°13'	Priv.	1850			1	4900		
Famero, Calif.	Piso-Kern County No. 16	35°38'-119°08'	Mun.	645			1	4500H		3000 all way mat available
Fellowa, Calif.	Model	35°12'-119°32'	Priv.	1180			1	2100		
Fountain, Calif.	Fountain	34°08'-117°28'	Mun.	1485			3	2300H		Unattended
Glendale (Los Angeles), Calif.	Grand Central Air Terminal	34°09'-118°17'	Com.	476	80, 91, 100	Major	2	3841H	Rnwy., prior req.	Attend. 24 hrs.
Hawes (Victorville), Calif.	Hawes Aux. No. 1	34°55'-117°22'	Misc. Govt.	2319			4	5591H		
Helendale (Victorville), Calif.	Helendale	34°50'-117°18'	Priv.	2509			4	5600H		Unattended
Inyokern, Calif.	Inyokern-Kern Co. No. 8	35°39'-117°50'	Mun.	2428	80/87	Major	3	7300H		Rnwy., prior req. Use caution
Inyokern, Calif.	NAF Inyokern	35°41'-117°41'	Navy	2218	A+B	Minor	3	9000H	Ben., rnwy., on req.	Official business only
Johannesburg (Bandsburg), Calif.	Johannesburg-Kern County	35°23'-117°38'	Mun.	3550			3	4200		
Joshua Tree, Calif.	Giant Rock	34°20'-118°23'	Com.	2700	80/87	Minor	1	5600		
Kernville, Calif.	Kernville-Kern County No. 13	35°43'-118°25'	Mun.	2375			1	2400		
Kingman, Ariz.	Searchlight Ferry	35°27'-114°38'	Com.	672			1	3000		
Lake Hughes, Calif.	Neenach Ranch	34°47'-118°35'	Priv.	2975			1	1900		
Lake Hughes, Calif.	Sky Castle Field	34°42'-118°23'	Priv.	2870			3	3650		
Lancaster, Calif.	Antelope Valley	34°39'-118°08'	Priv.	2530			2	2500		
Lancaster, Calif.	Quartz Hill	34°39'-118°13'	Com.	2475	80/87	Major	3	2550	B-2, prior req.	
Lancaster, Calif.	Steris Ranch	34°43'-118°08'	Priv.	2368			2	2150		
Lancaster, Calif.	Victory	34°47'-118°16'	Mun.	2425			4	5200		Unattended
Lancaster, Calif.	Waldrip Field	34°43'-118°07'	Priv.	2335			1	1930		Emergency only
Lancaster, Calif.	War Eagle	34°42'-118°13'	Mun.	2348			4	3350		Dangerous
Leewood (Barstow), Calif.	Riley Field	34°51'-117°08'	Priv.	2350	80/87		3	3100	B-2, prior req.	Attend. irreg.
Los Angeles (Van Nuys), Calif.	San Fernando Valley	34°13'-118°29'	Mun.	799	80/87, 91, 100	Major	2	6000H	Runway	2 way radio required
Lost Hills, Calif.	Blackwells Corner	35°37'-119°52'	Priv.	650			1	3000		Emergency only
Lost Hills, Calif.	Lost Hills-Kern County No. 9	35°37'-119°41'	Mun.	285			2	4500H		6350 ft. rnwy. available
Lucerne Valley, Calif.	Double J Ranch	34°27'-118°50'	Priv.	2955			1	2650		Use at own risk
Lucerne Valley, Calif.	Rabbit Dry Lake	34°27'-117°01'	Priv.	2950			All way	5500		Unattended
Maricopa, Calif.	Maricopa-Kern County No. 6	35°03'-119°24'	Mun.	937			1	2800		
Maricopa, Calif.	Sunset	35°05'-119°21'	Priv.	520			3	2900		Use at own risk
Mojave, Calif.	Mojave AAF (Navy)	35°04'-118°09'	Navy	2787			3	5200H		AAF to MCAS El Toro
Mojave, Calif.	Myer	35°02'-118°10'	Com.	2725	80/87		1	5000		Attend. irreg.
Moorpark, Calif.	Everett Ranch	34°15'-118°50'	Priv.	700			1	1250H		Emergency only
Muroc, Calif.	Barnes Guest Ranch	34°52'-117°57'	Com.	2340	80/87	Major	3	3600		Attend. 24 hrs.

~~SECRET~~
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON

UNCLASSIFIED

THE INSPECTOR GENERAL, USAF
5TH DISTRICT OFFICE OF SPECIAL INVESTIGATIONS
WRIGHT-PATTERSON AIR FORCE BASE, ~~OHIO~~ OHIO

IN REPLY REFER TO: 5D-24-21

4 March 1953

SUBJECT: Sighting of Unidentified Flying Object
Along Point Mugu, California, on 28
January 1953, by R. W. LOVE
SPECIAL INQUIRY

TO: Commanding General
Air Technical Intelligence Center
Wright-Patterson Air Force Base
Ohio
ATTN: ATIAA-2C

1. Transmitted herewith for your information and retention is one (1) copy of Spot Intelligence Report of the 18th OSI District (IQ), Maywood, California, dated 20 February 1953.

2. Attention is invited to Paragraph 7, AFR 205-1, dated 14 March 1949, which prohibits the disclosure of classified information to unauthorized personnel.

1 Incl
Spot Intelligence Rpt, DO #18, dtd
20 Feb 53

D. C. North
D. C. NORTH
Lt Colonel, USAF
District Commander

Copy to:
Hq OSI, w/o incl

DOWNGRADED BY 5
DECLASSIFIED BY 10
DOD DMI 200410

UNCLASSIFIED

~~SECRET~~
~~SECRET~~

5 BWC 1992

COPY

[REDACTED]
[REDACTED]
Oxnard, California
[REDACTED]

28 January 1953

To: Commander, NAMTC, Point Mugu
From: [REDACTED]
Subject: Report of flight of unidentified object along coast line of
NAMTC, 28 January 1953

At 1300 28 January 1953, the [REDACTED] boat, Moana Lau, was tied to its mooring buoy approximately 1,100 yards directly offshore from Fox 4 base for the purpose of observing K.D. launchings after having recovered a KDCG-2 from the surf at 1115, and delivered same to Brexel base at Hueneme.

At 1300 a K.D.R-3 was airborne, and my two tenders and myself were following its flight. However, we lost sight of the K.D. in the distance and were waiting for its return to the Fox 4 area. Since I had last seen the K.D. in the direction of Hueneme, which is on a compass bearing of approximately 290 degrees magnetic from our tie-up buoy, I observed the approach of a jet airplane of the type which had been used as control plane on the preceding flight of a KDCG-1. It seemed likely that this plane might have the K.D. under control so I concentrated my attention on it as it approached Fox 4 from Hueneme.

When this plane was approximately at the western boundary of NAMTC, bounded by Arnold road, I sighted a white object which I mistook for the white of the K.D.'s wing. However, its approach was so rapid that it was instantly apparent it was not the K.D., but some unknown object.

I called to the two men in the boat with me and tried to point it out. One of the men, Mr. [REDACTED], saw it as a white streak, but since I had a chance to pick it up before it was overhead, I had sufficient time to make out its shape, color, flight and the fact that it seemed to have rather fuzzy or shimmering perimeter.

Since it appeared above and from the stern of the jet plane, which I estimated was traveling at approximately 150 to 200 knots, there was an opportunity to judge its speed. Between the time the jet plane had traveled from Arnold Road to the beach theodolite station east of Arnold Road, a matter of about three seconds, this object overhauled the jet traveling on the same course and directly over the plane. The object did not alter speed or course, but continued on a straight line to the east toward Mugu Rock and disappeared in the haze headed in the general direction of Santa Monica.

COPY

The general appearance of this object was a white flat disk approximately eighteen to twenty inches in diameter. However, its size might be larger as I had no way of checking its altitude other than it seemed well above the mountains adjacent to Mugu Rock. The shimmering outline could be compared to observing the moon on a bright sunny day, except there were no dark marks anywhere on this object.

It is our custom to report any craft not authorized in the launching area and to note the time they appear. I called Erskine F.T.C. at 1306 and inquired if he could confirm what I had seen after I described it to him. It is quite probable that whoever received my transmission did not understand what I was talking about or at least thought I was pressure happy. He informed me our services were no longer needed on the sea test range and that we were to return to port.

When I arrived in port, I called Lt. Commander Maurer by land line and made the same report. He subsequently instructed me to make this written description.

It is quite probable that there will be some doubt as to the accuracy of this report, but I can only say I have been observing the flight of planes and missiles at NATC since 1949 and have some knowledge of their characteristics and speeds. I have never seen any plane or missile which resembled this object nor came within one half its speed.

████████████████████

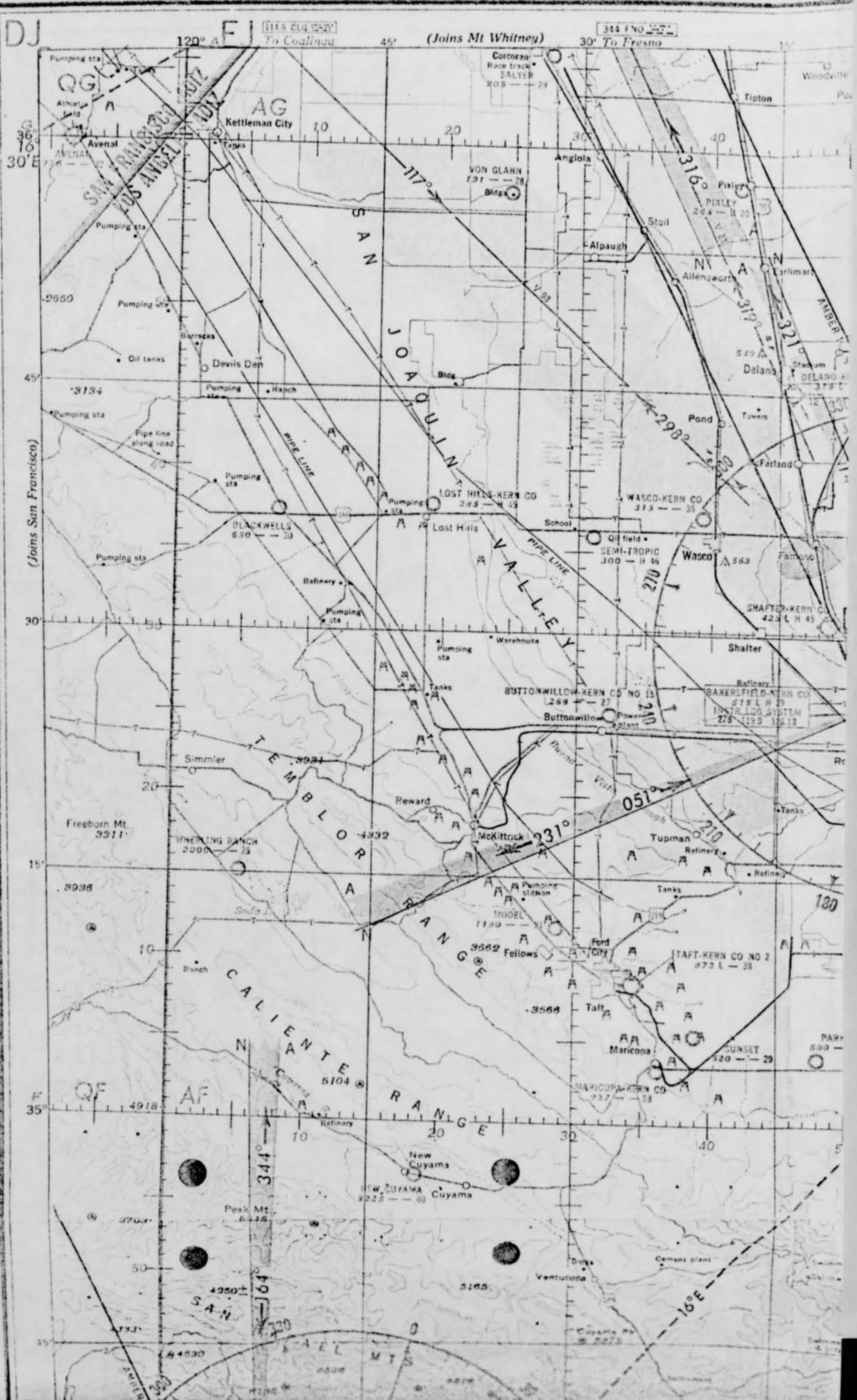
CERTIFIED TO BE A CORRECT COPY

/s/ ████████████████████

W.G. MAURER, LCDR, USN

Joins
San Francisco

LOS ANGELES (R-2)



UNCLASSIFIED

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON

THE INSPECTOR GENERAL USAF
18th DISTRICT OFFICE OF SPECIAL INVESTIGATIONS
AF DEPOT, BOX 310, MAYWOOD, CALIF.

20 February 1953

AIRMAIL

SPEC INTELLIGENCE REPORT

SUBJECT: Sighting of Unidentified Flying Object Along Point Mugu, California, on 28 January 1953, by [REDACTED]

TO: Director of Special Investigations
Headquarters USAF
Washington 25, D. C.

1. SYNOPSIS: Between 1300 and 1306 hours, 28 January 1953, three men sighted a flying object from a ship near Point Mugu, California, which they concluded was definitely not a conventional flying aircraft.

2. DETAILS: This District Office is in receipt of a letter of transmittal from the Zone Intelligence Office, Eleventh Naval District, Los Angeles, California, which has as an inclosure the statement of Mr. [REDACTED], concerning his sighting with two of his employees of an unconventional flying object between 1300 and 1306 hours, 28 January 1953.

3. The sighting was made by Mr. [REDACTED] of the [REDACTED] and his two tenders, one of whom was a Mr. [REDACTED].

4. The above named gentlemen were on the Moana Luu which was moored off shore from the Naval Air Missile Training Center, Point Mugu, California. Their position was to observe K.D. Launchings and to recover same after they have run their course. During the observation of one of these launchings, [REDACTED] and his assistants lost sight of the K.D. but observed the approach of a jet aircraft. While observing this aircraft, the three men noticed an object which at first they mistook for the white of a K.D.'s wing. Further observation disclosed that it was not any part of the aircraft or from their experience was it a K.D.

5. The speed of the object greatly exceeded that of the jet aircraft which was traveling between 150 to 250 knots per hour.

6. The object was going in an easterly direction toward Mugu Rock and disappeared in the general direction of Santa Monica, California.

Air Tech. Intelligence Center
Wright-Patterson AFB, Ohio
ATTN: AFMA-2C

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SPOT INTELLIGENCE REPORT, dtd 20 Feb 53, Subject: Sighting of Unidentified Flying Object along Point Mugu, Calif., on 28 Jan 53, by [REDACTED]

7. The size of the object was estimated to be approximately eighteen to twenty inches in diameter, but might be larger.

✓ 8. Altitude could not be determined, but it was estimated to be higher than the nearby mountains.

9. The outline could be compared to observing the moon on a bright, sunny day without any dark marks on the object however.

10. The sighters concluded that this was not a conventional aircraft due to their experience in observing the flight of aircraft and other missiles at the Naval Testing Center since 1949.

11. ACTION: No action by this District Office taken or contemplated.

1 Incl:
Statement of [REDACTED],
dtd 28 Jan 53

Arthur T. Cameron
ARTHUR T. CAMERON
Colonel, USAF
District Commander

✓ cc: Air Tech. Int. Center
Wright-Patterson AFB, Ohio
(w/incl)

cc: DO #5 (w/incl) (AIR MAIL)

UNCLASSIFIED

37	81	23,040	14,670
38	82	23,320	14,850
39	83	23,600	15,030
40	84	23,880	15,210
41	85	24,160	15,390
42	86	24,440	15,570
43	87	24,720	15,750
44	88	25,010	15,930
45	89	25,300	16,110
46	90	25,580	16,290

2000 2000 2000 2000 2000 2000 2000 2000 2000 2000

NOTES

03	401	02	36	06	6	01	00	01	07	36	07	
18	830	22	29	32	8	29	30	0	28	48	29	40

TIME ALTITUDE DATA

	45	50	55	60	65	70	75	80	85	90	95	100
18	452	419	375	346	318	292	268	246	226	208	188	
19	6650	7000	7450	8000	8700	9450	10200	10950	11400	11900		
21	208	230	257	276	300	320	338	350	360	400		
	150	155	160	165	170	175	180	185	190	195	200	205

Kosygin

Recorder *Kosygin*

86	10 485	6 670	11 39 23 2	11 6 0 2 12	500	20 2				
87	10 490	6 750	11 39 23 7	11 6 0 2 12	500	20 0				
88	10 710	6 830	11 39 23 1	11 7 0 2 12	500	17 0				
89	11 005	7 110	11 39 23 7	11 7 2 2 12	500	14 0				
90	11 300	7 290	11 39 23 2	11 7 2 2 12	500	12 5				
91	11 595	7 470								
92	11 890	7 650								
93	12 185	7 830								
94	12 480	8 010								
95	12 775	8 190								

Termination being in _____

Weight of balloon _____
 Weight of floating device _____
 Weight of magnetic transmission _____
 FRC of _____
 Total weight _____

Color of balloon _____
 Type of target or transmittal _____

Notes _____

Code D.V.	M	C	M	C	M	C	M	C	M	C	M	C
35 07	0 5	0 5	3 2	0 7	4 3	1 9	4 5	2 8	2 3	0 7		
0 2 49												

RASON TIME ALTITUDE DATA

Contact	1	2	3	4	5	6	7	8	9	10	11	12
Pressure		998	904	816	733	666	604	543	483	432	380	327
Altitude (m. w. G. pressure ratio)	10	900	1100	1300	1510	1610	1710	1800	1900	2000	2100	2200
Time	0	0 3	2 3	5 0	7 7	11 0	13 5	16 0	18 0	20 0	22 0	23 0
Contact	13	14	15	16	17	18	19	20	21	22	23	24
Pressure												
Altitude (m. w. G. pressure ratio)												
Time												

Indicate reason (radio, orbital, etc.) for termination.

Observer _____

DEPARTMENT OF THE NAVY
 OFFICE OF AERONAUTICS
ALTITUDE COMPUTATION SHEET
 (ALSO STATION FORM
 WBAN-80)

DATE OF OBSERVATION				
	Year	Month	Day	Time
Observer	1922	July	22	1219
Corrector	1922	July	22	1219

Altitude of observation point above M.S.L. 401.02 (Feet)

Minutes	100 Feet (0.305)	Altitude		Elevation angle	Azimuth (true)	Distance from observation point (nautical miles)	Slant range (nautical miles)	Wind direction (true)	Wind speed (knots)	Minutes
		100 Feet (0.305)	100 Feet (0.305)							
40	13,070	8,370								40
41	13,170	8,470								41
42	13,270	8,570								42
43	13,370	8,670								43
44	13,470	8,770								44
45	13,570	8,870								45
46	13,670	8,970								46
47	13,770	9,070								47
48	13,870	9,170								48
49	13,970	9,270								49
50	14,070	9,370								50
51	14,170	9,470								51
52	14,270	9,570								52
53	14,370	9,670								53
54	14,470	9,770								54
55	14,570	9,870								55
56	14,670	9,970								56
57	14,770	10,070								57
58	14,870	10,170								58
59	14,970	10,270								59
60	15,070	10,370								60
61	15,170	10,470								61
62	15,270	10,570								62
63	15,370	10,670								63
64	15,470	10,770								64
65	15,570	10,870								65
66	15,670	10,970								66
67	15,770	11,070								67
68	15,870	11,170								68
69	15,970	11,270								69
70	16,070	11,370								70
71	16,170	11,470								71
72	16,270	11,570								72
73	16,370	11,670								73
74	16,470	11,770								74
75	16,570	11,870								75
76	16,670	11,970								76
77	16,770	12,070								77
78	16,870	12,170								78
79	16,970	12,270								79
80	17,070	12,370								80
81	17,170	12,470								81
82	17,270	12,570								82
83	17,370	12,670								83
84	17,470	12,770								84
85	17,570	12,870								85
86	17,670	12,970								86
87	17,770	13,070								87
88	17,870	13,170								88
89	17,970	13,270								89
90	18,070	13,370								90
91	18,170	13,470								91
92	18,270	13,570								92
93	18,370	13,670								93
94	18,470	13,770								94
95	18,570	13,870								95
96	18,670	13,970								96
97	18,770	14,070								97
98	18,870	14,170								98
99	18,970	14,270								99
100	19,070	14,370								100

NOTES

77

25	63	401	02	36	06	9	01	26	31	07	36	07
32	18	330	12	29	32	9	25	30	23	48	27	40

DEPARTMENT OF THE NAVY
 OFFICE OF AERONAUTICS
OFF COMPUTATION SHEET
 (LAND STATION FORM)
 WBAN-20

Date of observation			
Year	Month	Day	Time
1932	July	29	12:15
1932	July	29	12:19

Elevation of observation point above M.S.L. 5 (feet) (meters)

Time	Altitude	Altitude		Elevation	Azimuth	Distance from observer to target (meters)	Sight	Wind direction (true)	Wind speed (knots)	Remarks
		100 ft. Balloon (meters)	50 ft. Balloon (meters)							
46	13 075	8 370								
47	13 375	8 550								
48	13 675	8 730								
49	13 975	8 910								
50	14 275	9 090								
51	14 575	9 270								
52	14 875	9 450								
53	15 175	9 630								
54	15 475	9 810								
55	15 775	9 990								
56	16 075	10 170								
57	16 375	10 350								
58	16 675	10 530								
59	16 975	10 710								
60	17 275	10 890								
61	17 575	11 070								
62	17 875	11 250								
63	18 175	11 430								
64	18 475	11 610								
65	18 775	11 790								
66	19 075	11 970								
67	19 375	12 150								
68	19 675	12 330								
69	19 975	12 510								
70	20 275	12 690								
71	20 575	12 870								
72	20 875	13 050								
73	21 175	13 230								
74	21 475	13 410								
75	21 775	13 590								
76	22 075	13 770								
77	22 375	13 950								
78	22 675	14 130								
79	22 975	14 310								
80	23 275	14 490								
81	23 575	14 670								
82	23 875	14 850								
83	24 175	15 030								
84	24 475	15 210								
85	24 775	15 390								
86	25 075	15 570								
87	25 375	15 750								
88	25 675	15 930								
89	25 975	16 110								
90	26 275	16 290								

NOTE: 1. Wind direction in tenths of a circle. 2. Wind speed in knots.

03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

NAVY BUREAU OF AERONAUTICS
LOFT GRAPH
 BAN-20A

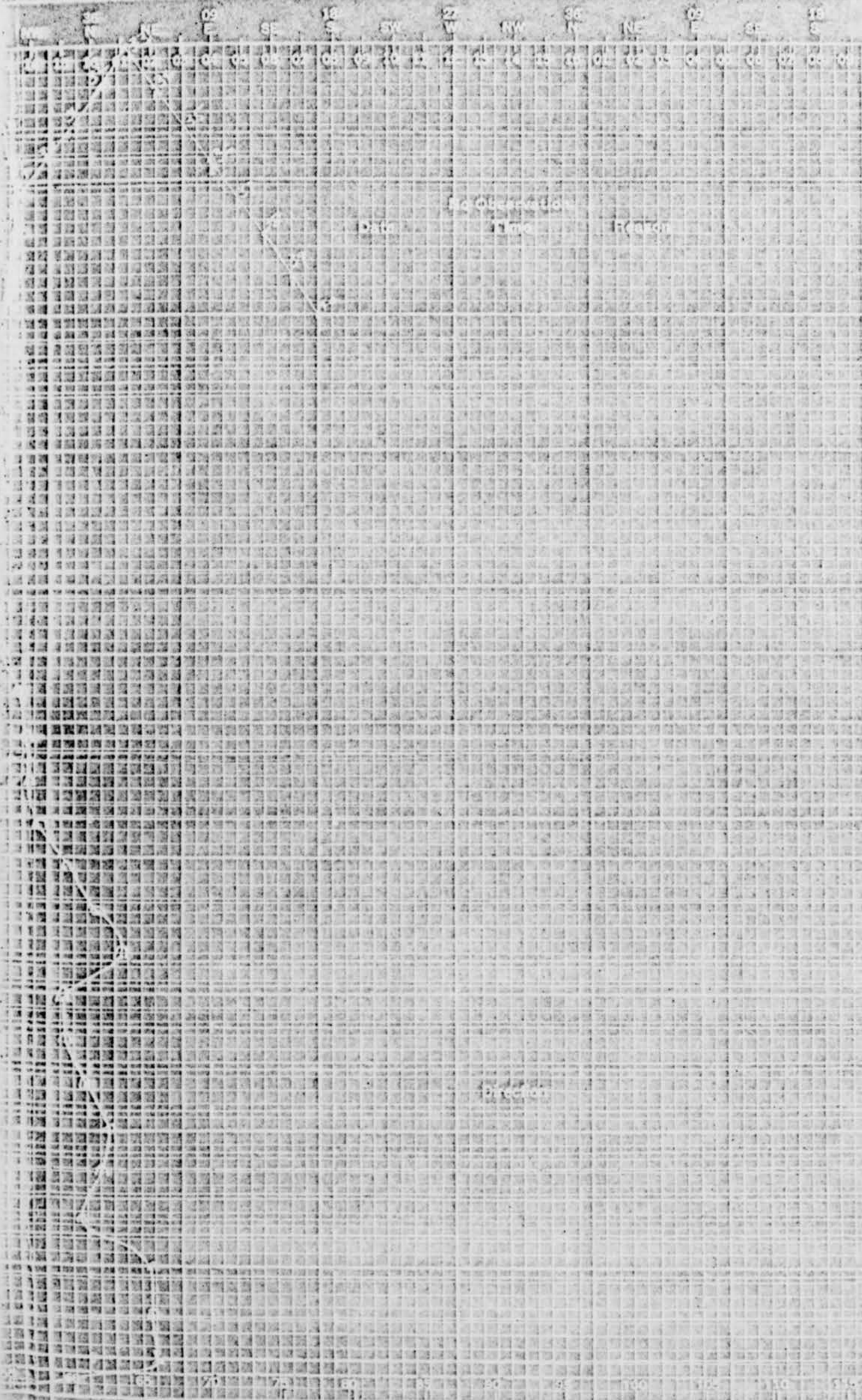
Release Date and Time

	Year	Month	Day	Time
12th Mar	1952	APRIL	28	12 17
601	1952	APRIL	28	10 17

File No. 70

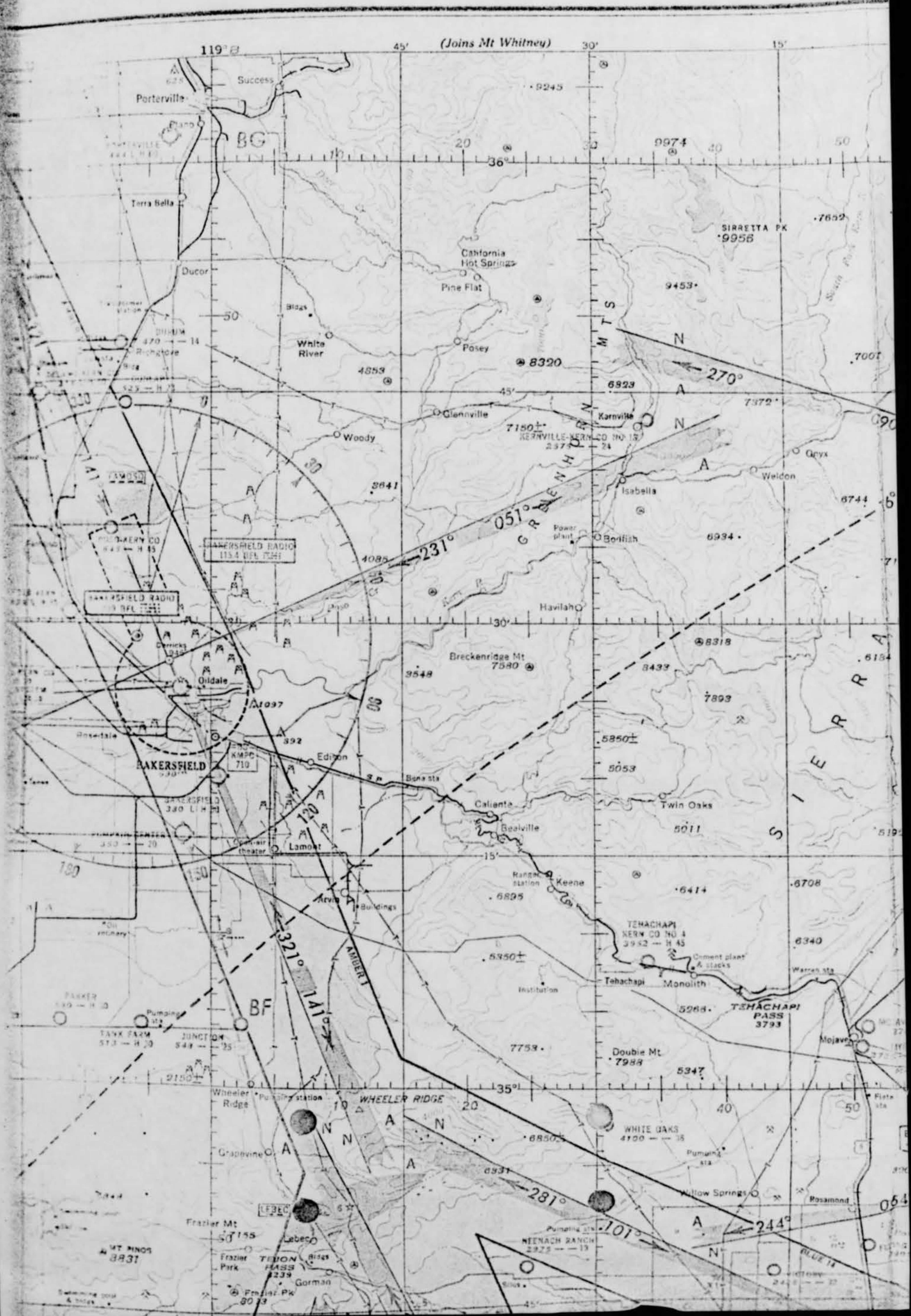
FROM PUNCHED CARDS

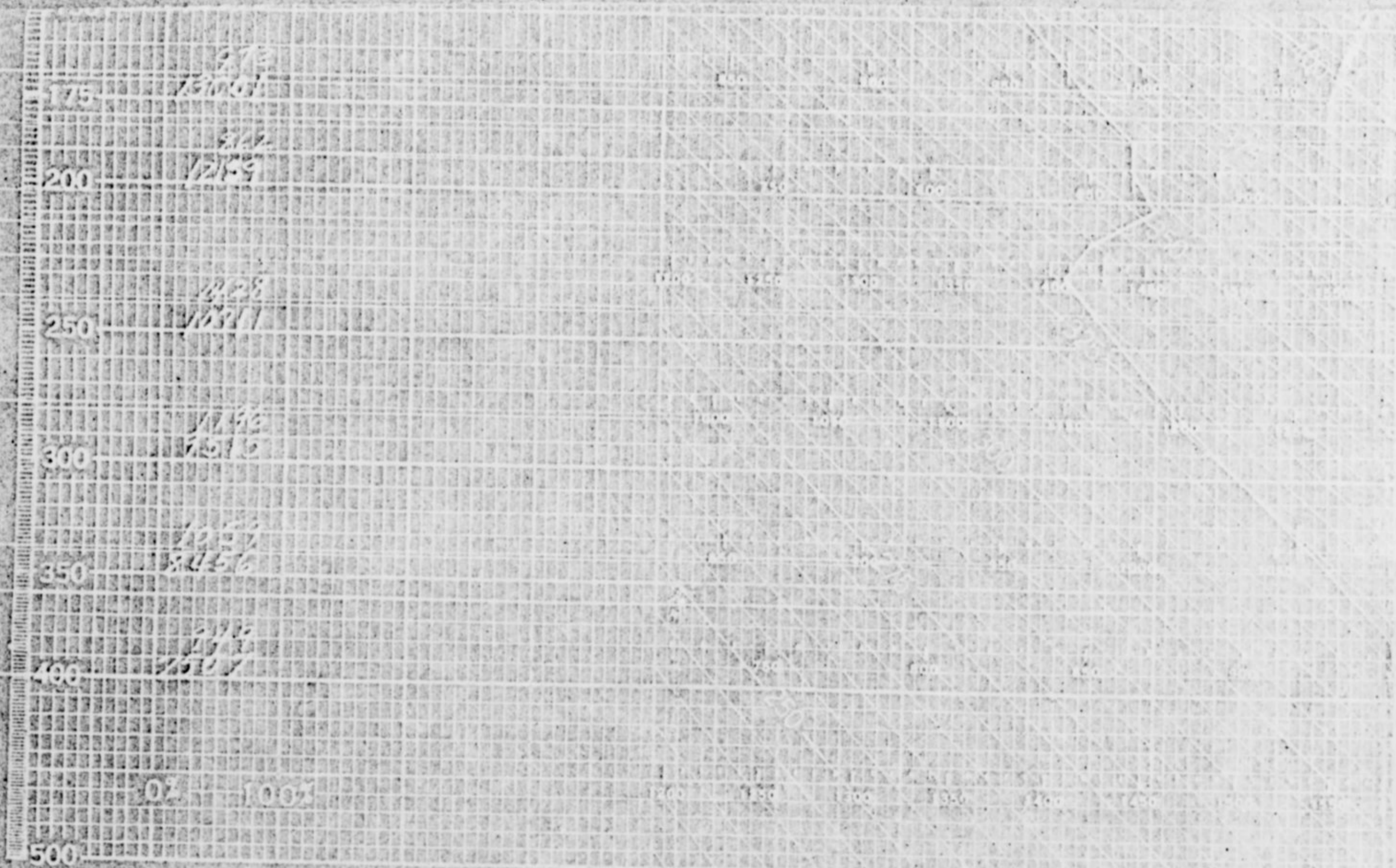
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ELEVATIONS IN FEET



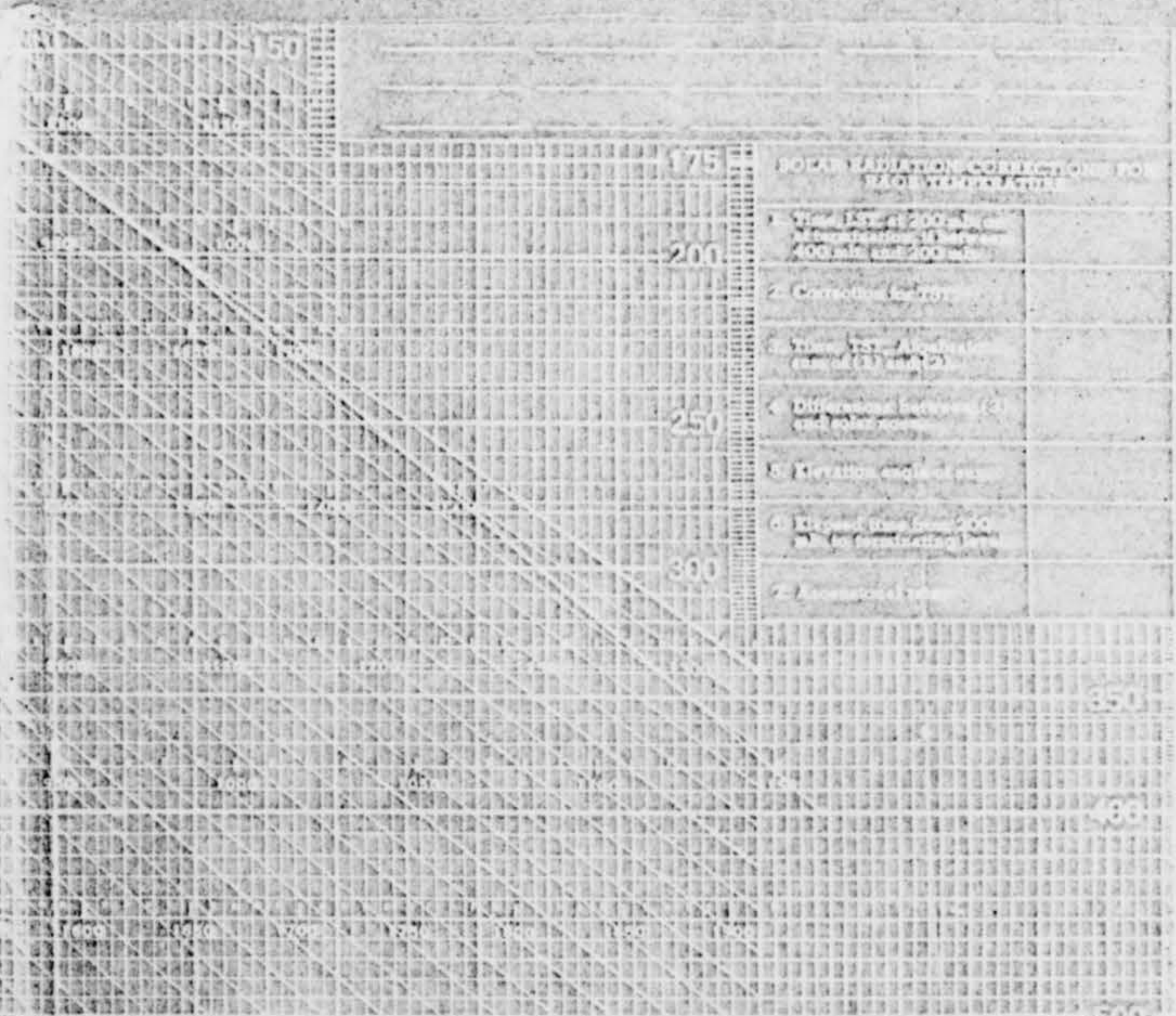


24 Km 23 Km 22 Km 21 Km 20 Km 19 Km 18 Km 17 Km 16 Km 15 Km 14 Km

USNA/TC, PT. MUGU, PORT HUENEME, CALIF.
 34° 07' N 119° 00' W

DATA AS TRANSMITTED	DATA TO BE USED IN DATA ACQUISITION ON WANG-32 OR PUNCHED CARD	
00	1 (m)	1
11.11	1m	1m
02	0.1 (m)	1 (m)

SPECIAL



POPULATION CORRECTION TO
STANDARD TIME

- 1. Daylight Saving Time
- 2. Standard Time
- 3. Summer Time
- 4. Winter Time
- 5. Daylight Saving Time
- 6. Standard Time
- 7. Summer Time
- 8. Winter Time

1953	1954	1955
1956	1957	1958
1959	1960	1961
1962	1963	1964
1965	1966	1967
1968	1969	1970
1971	1972	1973
1974	1975	1976
1977	1978	1979
1980	1981	1982
1983	1984	1985
1986	1987	1988
1989	1990	1991
1992	1993	1994
1995	1996	1997
1998	1999	2000

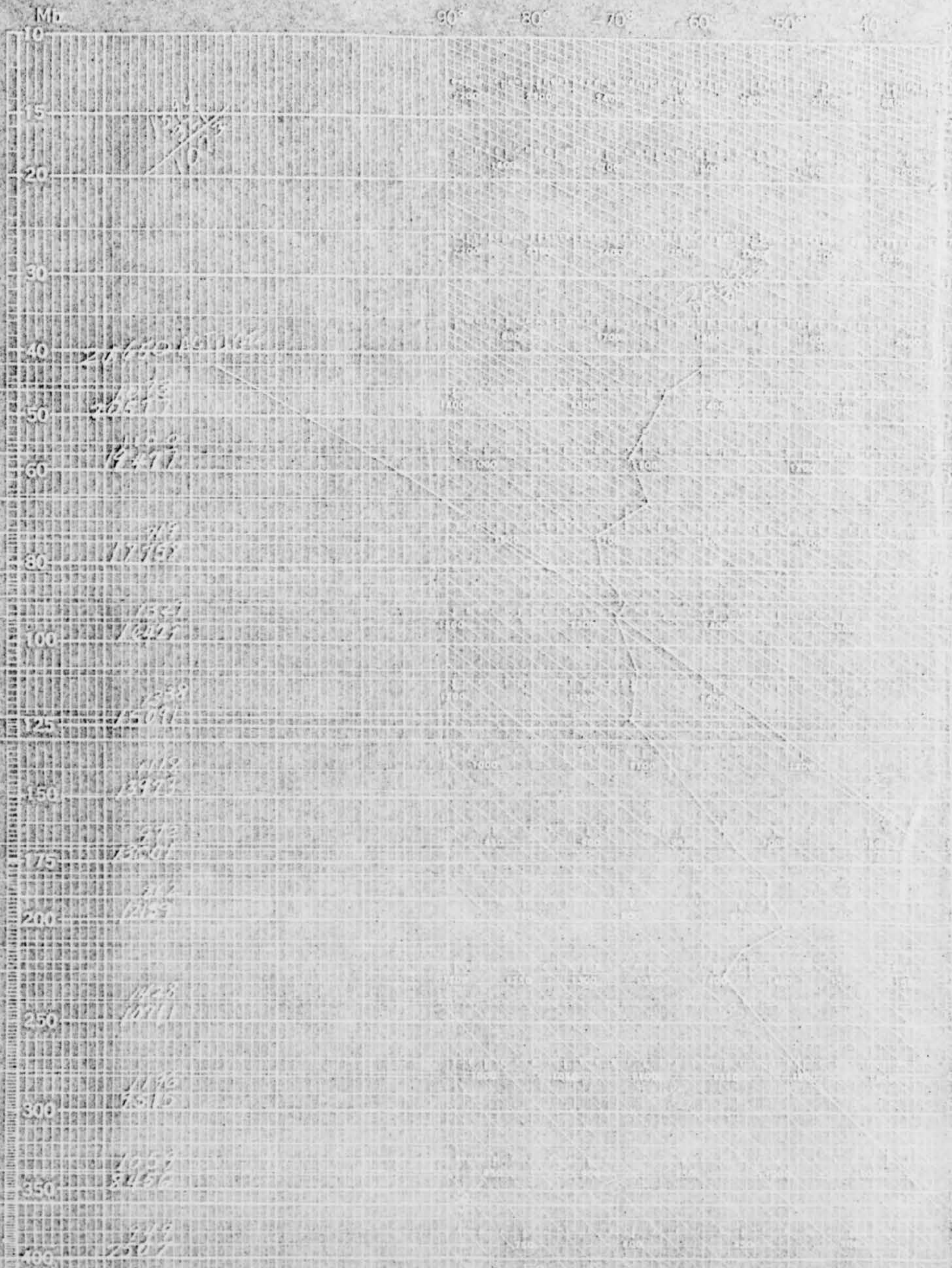
30° -20° -10° 0° 10° (C)
 13 Km 12 Km 11 Km 10 Km 9 Km 8 Km 7 Km 6 Km 5 Km

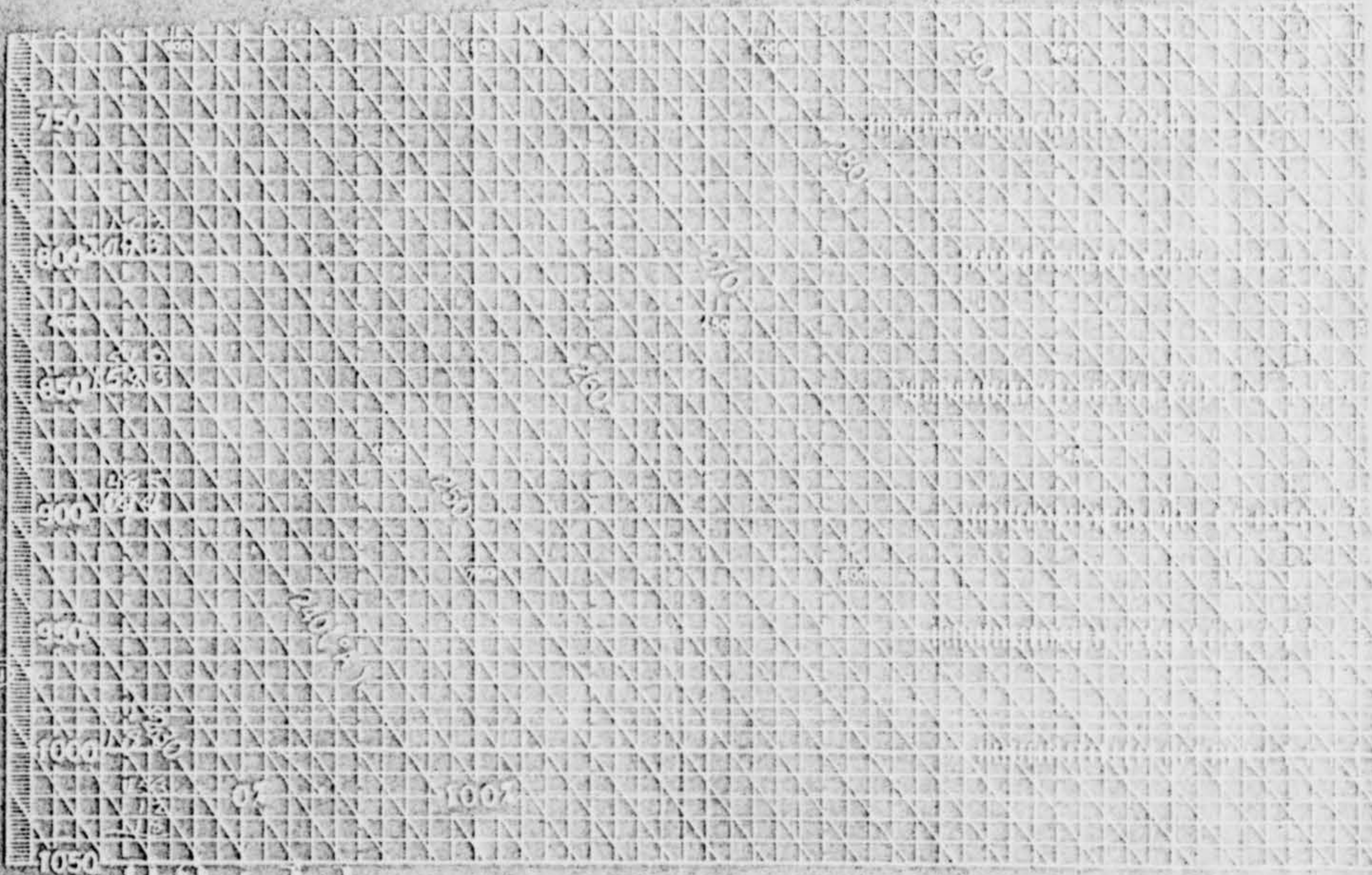
Duluth IA 1963
Miller IA 1963
London IA 1963

DATE AND RELEASE TIME

170	1963	11:00	35	1219
170	1963	11:00	25	2119
170	1963	11:00	15	3119

DEPARTMENT OF THE NAVY
ADIABATIC CHART
WEINSTEIN





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 1000
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USNAVIC, PT. AUGU, PORT HUENEAS, CALIF.
 38° 07' N 124° 21' W

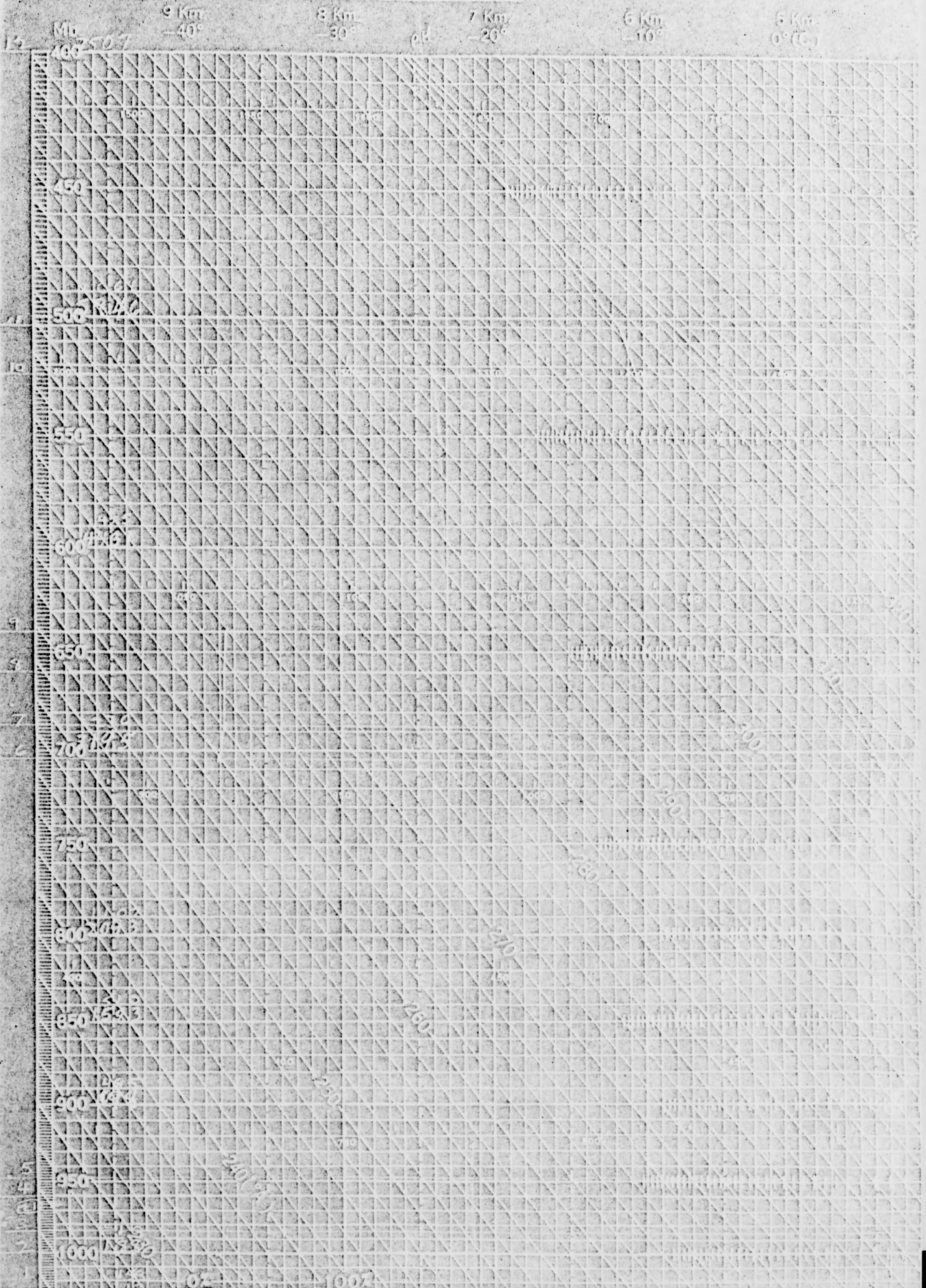
DATE	TIME	TYPE	OTHER DATA	CONTENTS

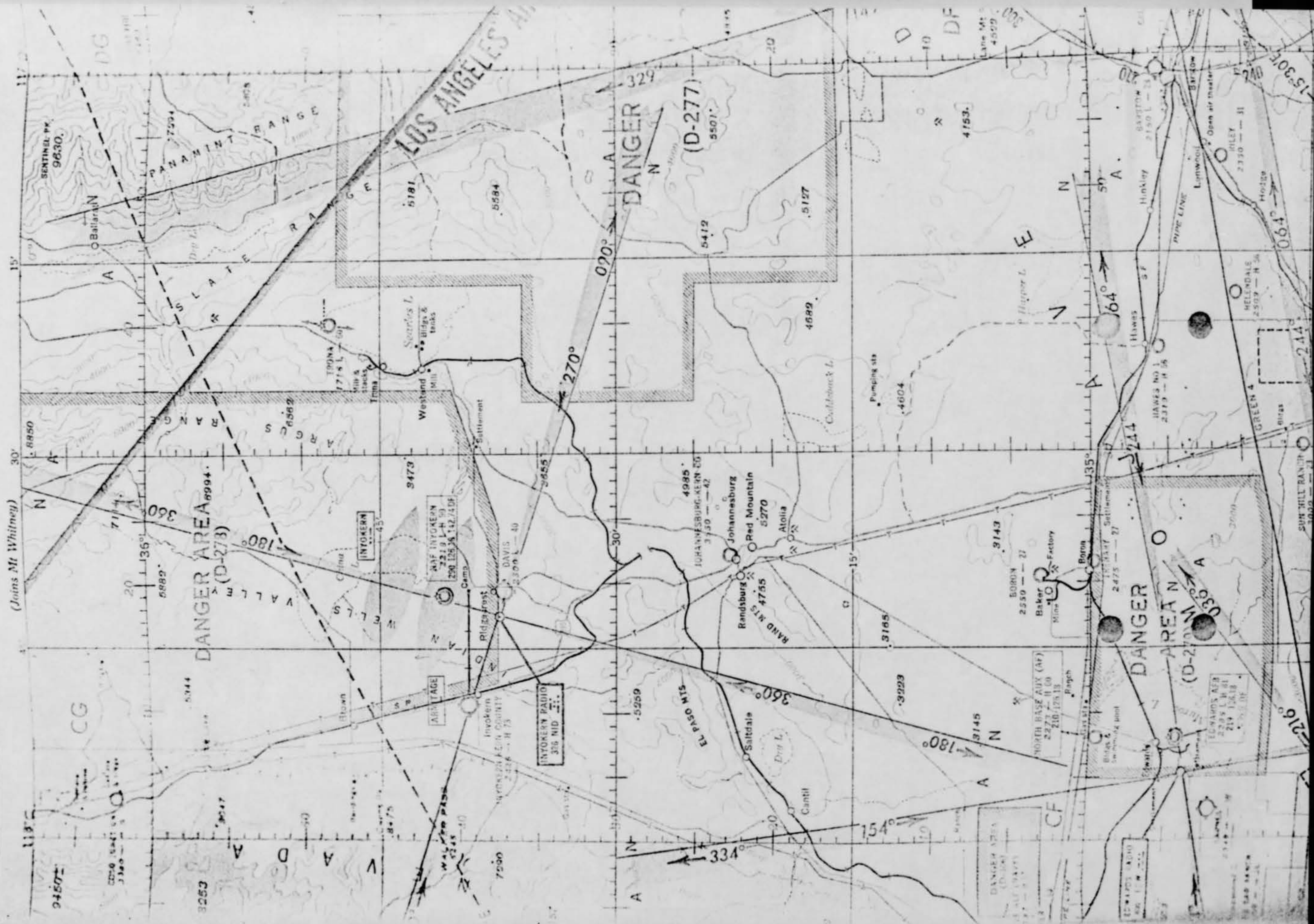
SPECIAL

BASILINE CHECK READINGS

DEPARTMENT OF THE NAVY
 ADIABATIC CHART
 WEA-517

Time (GCT)	TEMPERATURE			RELATIVE HUMIDITY		
	Outside	Dry	Wet	Outside	Wet	Psychrometric
1757	72.0	27.5	20.7 ^o	71.5	56	51





(Joins Mt Whitney)

9450'

CD-0 1547 3300

3253

DANGER AREA 6994 (D-273)

ARMY LAGE

INTOKERN RADIO 306 MID

INTOKERN

MAF INTOKERN 2218 L-H 50 250 125 5 142/4 DF

334°

360°

360°

270°

090°

DANGER

(D-277)

180°

154°

330°

DANGER AREA 6994 (D-278)

NORTH BASE AUX (AF) 2273 L-H 60 210/125 15

Baker Mine

5080N 2550 - 27

RAND MTS 4785

Johannesburg

Red Mountain

Alolia

4985

JOHANNESBURG-KERN CO 3130 - 42

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DANGER AREA (D-278)

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DANGER AREA (D-278)

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DANGER AREA (D-278)

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DANGER AREA (D-278)

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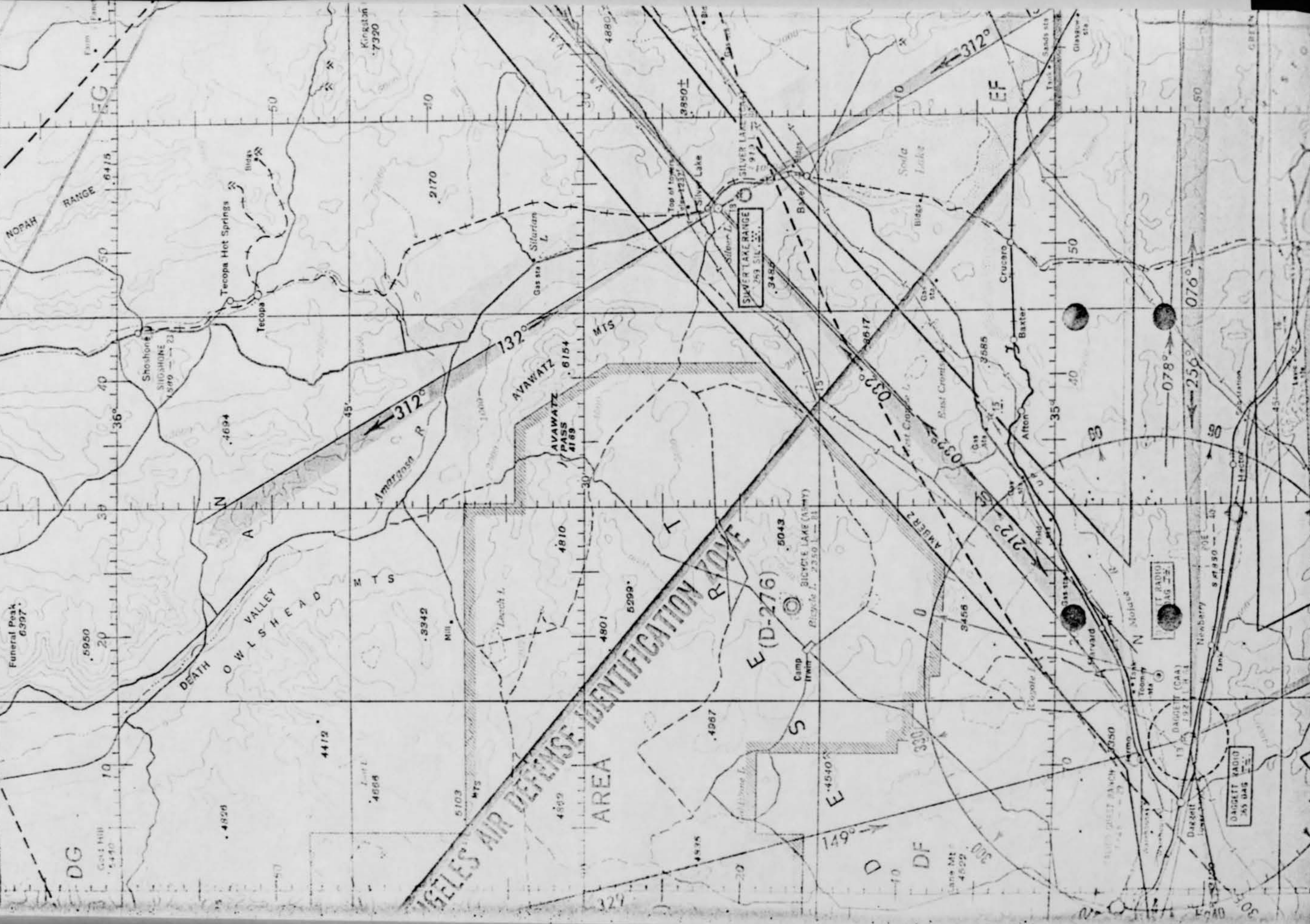
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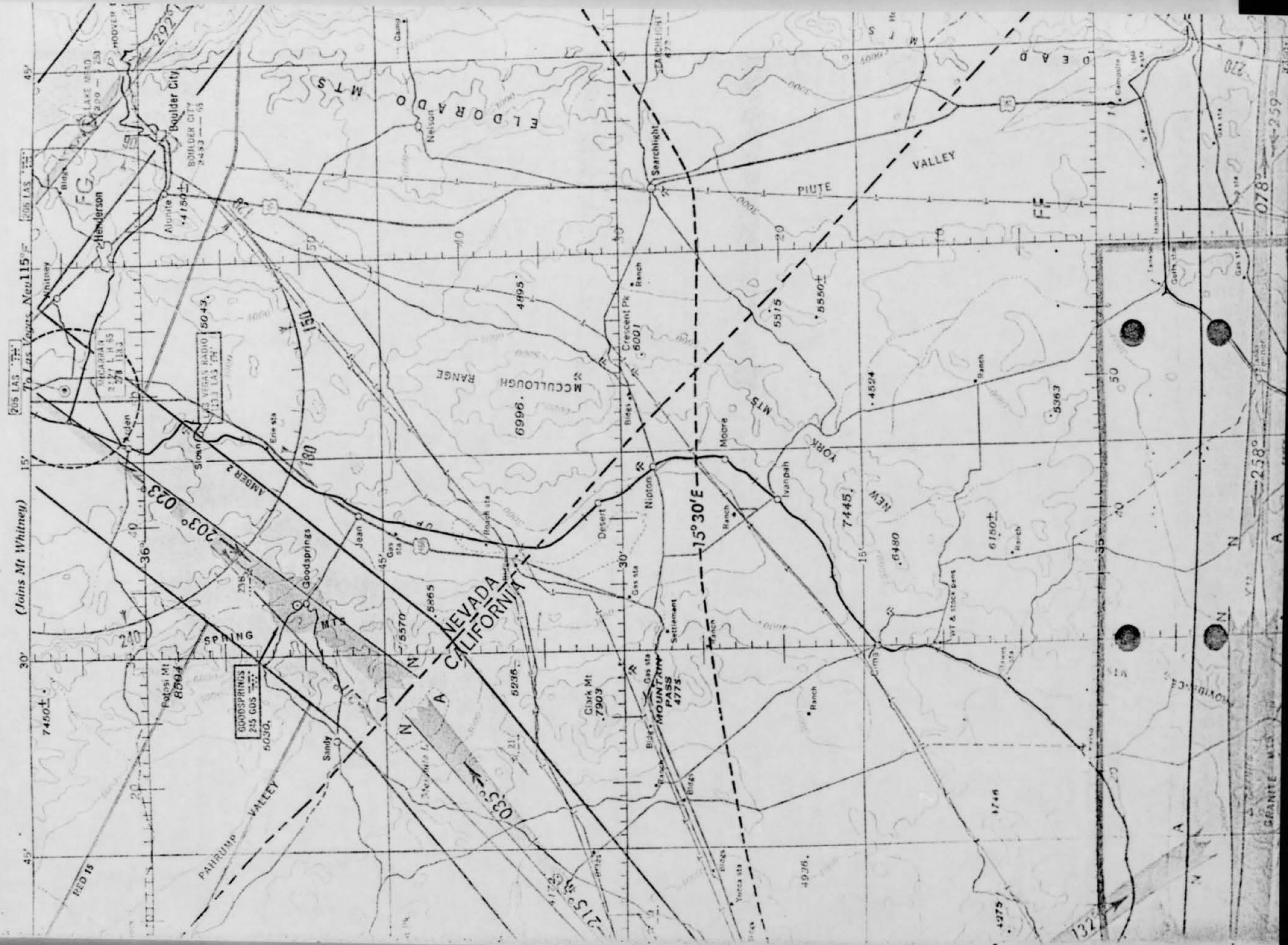
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(Joins Mt Whitney)

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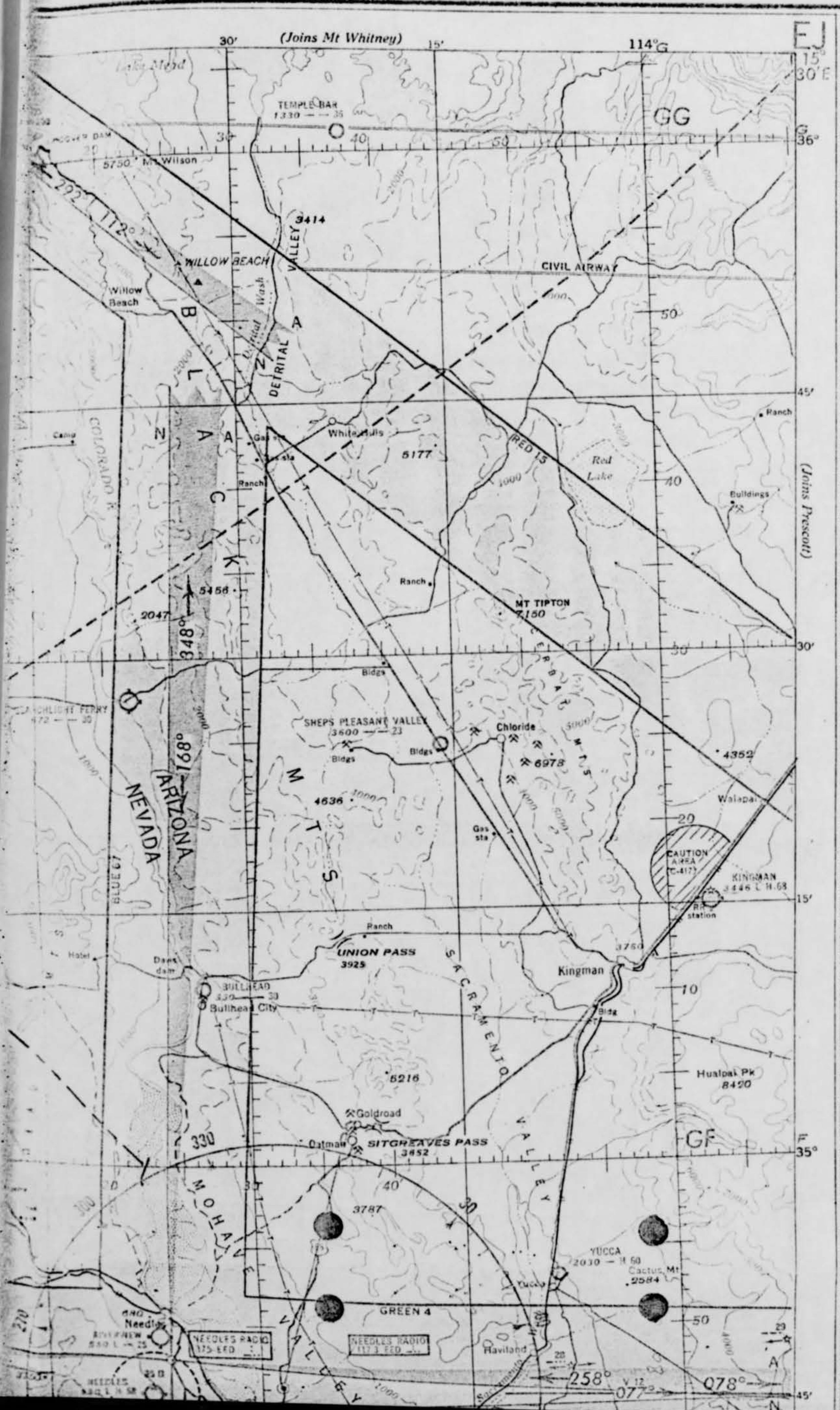
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LOS ANGELES (R-2)

Lambert Conformal Conic Projection Standard Parallels 33° and 45° Scale 1:500,000

(Joins Grand Canyon)





PRICE 25 CENTS

LOS ANGELES (R-2)

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