PROJECT 10073 RECORD CARD

1. DATE
13 Apr 52

2. LOCATION
Biloxi, Miss.

3. DATE-TIME GROUP
Local 2107 CST
GMT 14/ 0307

4. TYPE OF OBSERVATION
☒ Ground-Visual ☐ Ground-Radar
☐ Air-Visual ☐ Air-Intercept Radar

5. PHOTOS
☐ Yes
☒ No

6. SOURCE
AF officer - 1st Lt

7. LENGTH OF OBSERVATION
4-5 seconds

8. NUMBER OF OBJECTS
3

9. COURSE

12. CONCLUSIONS
☐ Was Balloon
☐ Probably Balloon
☐ Possibly Balloon
☐ Was Aircraft
☐ Probably Aircraft
☐ Possibly Aircraft
☐ Was Astronomical
☐ Probably Astronomical
☐ Possibly Astronomical
☐ Other
☐ Insufficient Data for Evaluation
☒ Unknown

10. BRIEF SUMMARY OF SIGHTING
Dull orange color. Circular. Straight and level flight.

11. COMMENTS
Observer sighted 3 objects over the Gulf. Objects traveled at high speed and appeared to rapidly "change" formation at one time.

Winds were from 300 deg at 25 K to 270° at 60 K at 20,000

Nuteus

ATIC FORM 329 (REV 26 SEP 52)

AF FORM 112—PART I
APPROVED 1 JUNE 1948

UNCLASSIFIED [redacted]
(CLASSIFICATION)
Security Information

(LEAVE BLANK) 44-0619

COUNTRY	REPORT NO.	(LEAVE BLANK)
USA	IR-1-52	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT
Report of Sighting of Unidentified Flying Objects

AREA REPORTED ON	FROM (Agency)
Biloxi-Gulfport, Mississippi	Wing Intelligence Office Keesler AFB, Mississippi

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
15 April 1952	13 April 1952	F-2

PREPARED BY (Officer)	SOURCE
Major Eli S. Fowler, Jr.	1st Lt. [redacted]

REFERENCES (Control number, directive, previous report, etc., as applicable)
Ltr, AFOIN-C/CC-2, Hq USAF, dtd 19 Dec 1951,
Subj: "Reporting of Information on Unidentified Flying Objects"

SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112—Part II.)

1. At approximately 2107 hours CST on 13 April 1952, while seated in a parked automobile located at approximately 30°23'N/88°57'W, 1st Lt. Robert O. Wilson, AO-862184, sighted three (3) unidentified objects in the sky over the Gulf of Mexico, south of above mentioned geographical location. The objects were reported as being three (3) in number, round in shape, and dull orange (compared by the observer as being similar to the glow of heated metal) in color. The observer was unable to determine the size of the objects, distance from him, or altitude of the objects. Aerodynamic features or propulsion systems were not observed.

2. The period of observation was estimated as being from four (4) to five (5) seconds. The objects traversed the sky in a straight line. After approximately three (3) seconds, the objects appeared to change their formation or alter their pattern and then vanished from sight. The observer could distinguish no definite sound coming from the objects; no maneuvers (except as mentioned above), no exhaust or distinguishing features were noted.

APPROVED:

[redacted]
Major, USAF
Intelligence Officer

2 INCLS.
1. Synoptic Report & Winds Aloft
2. Statement of Observer

DISTRIBUTION BY ORIGINATOR

Orig to Hq USAF thru D/I, ATRC
Info cy to D/I, TTAF

DOWNGRADED AT 3 YEAR INTERVALS.
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

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[redacted]
(CLASSIFICATION)

UNCLASSIFIED

16—86340-1 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950 O—918331

Report of Sighting of Unidentified Flying Objects

Information Pertinent to Objects Sighted:

1. Shape:

The shape of the objects sighted was reported as being round, "like balls of light".

2. Size:

No estimation of the size of the objects sighted was advanced by the observer due to his inability to determine accurately the altitude or distance away of the objects.

3. Color:

The objects appeared to be a dull orange color, comparable to the glow of heated metal.

4. Number:

Three (3).

5. Trail or exhaust:

None observed.

6. Propulsion system:

None observed.

7. Speed:

No estimation of speed was made by observer due to lack of knowledge concerning distance and altitude. However, due to the short time observed (approximately four to five seconds) the observer has estimated the speed to have been very fast.

8. Sound:

Negative

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9. Maneuvers:

Straight line formation, flying straight across the sky. See 10 below.

10. Manner of Disappearance:

After approximately three (3) seconds in sight of the observer, the objects appeared to change formation or alter their pattern and then vanished from sight to the West. (Change of formation or pattern not remembered by observer.)

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AF FORM 112—PART II
APPROVED 1 JUNE 1948

[redacted] UNCLASSIFIED

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE 3 OF 4 PAGES
Wing Intelligence Office Keesler AFB, Mississippi	IR-1-52	

11. Time Sighted:

Approximately 2107 hours CST, 13 April 1952.

12. Manner of Observation:

Visual observation from a surface location.

13. Location of observer and objects, respectively:

Observer:

Location: Approximately 30°23'N/88°57'W.

Objects:

Distance: Not determined.

Direction: Objects were reported as being observed directly south of above mentioned geographical location, traveling in a Westerly direction.

Altitude: Not determined. The angle of elevation above the horizon was reported as being approximately thirty (30) degrees.

14. Information on observer and witness:

Observer:

Name: 1st Lt R[redacted]

Duty Assignment: Student Officer, Electronics Officer Course No. 01106, Keesler AFB, Mississippi

Estimate of Reliability: Observer appeared to be intelligent, serious, and well-aware of the significance of his statements.

Experience: Non-rated pilot, no flying experience.

Witness:

Name: Mrs. E. Phroso Wilson

Occupation: Housewife

Estimate of Reliability: Not determined.

15. Weather and Wind Conditions:

See Inclosure 1 hereto.

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16. Meteorological Condition (or otherwise) which might account for sighting:

Unknown.

17. Existence of physical evidence:

Negative.

18. Interception or identification action taken:

Negative.

[redacted]
Major, USAF
Intelligence Officer

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WEATHER DETACHMENT 16-9
16th Weather Squadron
Keesler Air Force Base, Miss.

WDS/ls

17 April 1952

SUBJECT: Synoptic Report and Winds Aloft, 13 April 1952

TO: Wing Intelligence Officer
Keesler Air Force Base,
Mississippi

AF140619

1. Weather as reported 2030C 13 April 1952 follows;

Sky condition - clear; visibility - 15 miles, sea level pressure 1012.3 mb, temperature - 84°F, dew point 49°F, surface wind westnorthwest 16 knots, altimeter setting 29.88 inches.

2. Winds aloft for this period were;

2000 feet - 300°/22 knots
4000 feet - 310°/21 knots
6000 feet - 300°/24 knots
8000 feet - 260°/34 knots
10000 feet - 270°/49 knots
12000 feet - 270°/45 knots

Winds for the following levels are estimated;

14000 feet - 270°/50 knots
16000 feet - 270°/50 knots
18000 feet - 270°/60 knots
20000 feet - 270°/65 knots

WILLIAM WAGGY JR.
Capt, USAF
Forecaster

Fuller
AF140619

S T A T E M E N T

Personally appeared before me, the undersigned, authorized to administer oaths in cases of this nature, First Lieutenant [redacted] son, [redacted], 3401st Student Squadron, 3380th Technical Training Group, Keesler Air Force Base, Mississippi, and upon being warned of his rights under the 31st Article, Uniform Code of Military Justice, and upon being duly sworn according to law, made the following voluntarily sworn statement:

"While attending the Beach Drive-in Theater on the night of 13 April, I, First Lieutenant [redacted], and my wife, [redacted], sighted three unidentifiable objects in the sky out over the Gulf of Mexico, south of our location. The objects appeared to be in a formation or definite pattern, round in shape and of a dull orange color similar to the glow of heated metal, and were traveling west. The objects appeared to be approximately thirty (30) degrees in elevation. The objects were within my sight for approximately four (4) to five (5) seconds. After approximately three (3) seconds, the objects appeared to change formation or alter their pattern and then vanished from sight to my right (West).

"I believe that the possibility of sighted objects being confused with falling stars is precluded by the direct horizontal path of the objects sighted and the difference in color between a star and the sighted objects".

[redacted]
1st Lt, USAF

Subscribed and sworn to before me this, the eighteenth (18th) day of April 1952, at Keesler Air Force Base, Mississippi.

S. W. BOURGEOIS
CWO, USAF
Asst Wg Adj

EXTRACT FROM STATUS REPORT #__7__

DATE: 13 Apr 52

TIME (Local): 2107 CST

LOCATION: Biloxi, Miss.

LENGTH OF TIME OBSERVED: 4--5 Seconds

SOUND: Unknown

SPEED: Fast

ALTITUDE: 30°

HEADING: W

SOURCE: AF Officer

ACTION OR COMMENTS: No conclusions

DESCRIPTION OF INCIDENT: Three round, dull orange objects over the Gulf of Mexico.

UNCLASSIFIED

[redacted]

SWORN STATEMENT

UNCLASSIFIED

22 April 1952

I, A/B [redacted] 768th Aircraft Control and Warning Squadron, Moriarity, New Mexico, do hereby wish to make the following statement:

While standing in front of the Mess Hall of the 768th Aircraft Control and Warning Squadron, I [redacted] sighted an object traveling east at a great [redacted] I was able to keep the object in sight until it started a turn to the north. The object was sighted again and was in a vertical dive. I lost sight of the object as it turned out of the dive. The object reappeared in a few seconds, far to the south and continued south until it was lost from my sight.

[redacted]

Sworn to and subscribed before me this 22d day of April 1952.

PARTER F JONES
Captain, USAF
Adjutant
768th ACW Sq., Moriarity, New Mexico

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[redacted]

UNCLASSIFIED

[redacted]
HEADQUARTERS
34th AIR DIVISION (DEFENSE)
KIRTLAND AIR FORCE BASE, NEW MEXICO

OIN 452.1

23 APR 1952

SUBJECT: Letter of Transmittal

TO: Commanding General
Air Material Command
Wright-Patterson Air Force Base
Ohio
ATTN: MCIS

Transmitted herewith are Air Intelligence Information Reports on the sighting of unconventional aircraft.

FOR THE COMMANDING GENERAL:

James H. Barnett

JAMES H. BARNETT
1st Lt, USAF
Asst Air Adj Gen

10 Incls
1. A.I.I.R. Part I (2 cys)
2. A.I.I.R. Part II A/2C [redacted] (2 cys)
3. A.I.I.R. Part II S/SGT [redacted] (2 cys)
4. A.I.I.R. Part II A/1C [redacted] (2 cys)
5. A.I.I.R. Part II A/B [redacted] (2 cys)
6. Sworn Statement - A/2C [redacted] (2 cys)
7. Sworn Statement - S/SGT [redacted] (2 cys)
8. Sworn Statement - A/1C [redacted] (2 cys)
9. Sworn Statement - A/B [redacted] (2 cys)
10. Map (1 cy)

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[redacted]

34-3417

AF FORM 112—PART II
APPROVED 1 JUNE 1948

[redacted]

AIR INTELLIGENCE INFORMATION REPORT

UNCLASSIFIED

FROM (Agency)	REPORT NO.	PAGE One (1) OF One (1) PAGES
768th AC&W Sqdn.	Not Applicable	

(a) Shape: Egg Shaped
Size: Unk.
Color: Silver
Number: One (1)
Sound: None
Unusual Features: Speed and Maneuverability
Speed: Fastest I've ever seen
(b) Time Sighted: 1645 MST
(c) Observed from ground, altitude approximately 40,000 ft. or above
(d) In front of Dinning Hall, Eastward direction
(e) Observer is reliable and experienced
(f) Weather clear, visibility good
(g) None
(h) None
(i) None
(j) None

The information given above by A/2C [redacted] is true and correct to the best of his ability and knowledge.

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[redacted]

(CLASSIFICATION) 14—58970-1 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950—O-918332

AF FORM 112—PART I
APPROVED 1 JUNE 1948

[redacted]

UNCLASSIFIED

COUNTRY	REPORT NO.	(LEAVE BLANK)
UNITED STATES	Not Applicable	

AIR INTELLIGENCE INFORMATION REPORT

SUBJECT: Report of Unconventional Aircraft

AREA REPORTED ON	FROM (Agency)
Albuquerque ADIZ	768th Aircraft Control and Warning Squadron

DATE OF REPORT	DATE OF INFORMATION	EVALUATION
21 April 1952	13 April 1952	

PREPARED BY (Officer)	SOURCE
[redacted], Captain, USAF	Visual Ground Observation

REFERENCES (Control number, directive, previous report, etc., as applicable)
None

SUMMARY: (Enter concise summary of report. Give significance in final one-sentence paragraph. List inclosures at lower left. Begin text of report on AF Form 112—Part II.)

SUBJECT: Reporting of Information on Unconventional Aircraft

In accordance with ADC Ltr. 200-1, Reporting of Unconventional Aircraft, dated 11 April 1951, the following is forwarded your headquarters in its importance as intelligence.

13 April 1952

At 1645 MST, a strange object was sighted in the sky by several members of this organization. The object was described as circular and flat in shape; metalic or silver in color; of a size that could not be easily estimated.

There was only one (1) such object reported; there was no trail or exhaust observed, and apparently no sound to be heard. All observants were impressed most by its high speed and maneuverability.

This was a visual sighting from the ground and the ground elevation at the point from which the object was sighted is approximately 6,700 feet MSL. The weather can be sescribed as generally clear with extremly good visability. The Albuquerque weather sequence follows:

ADIZ Weather 13/1530 MST Albuquerque 300 Scattered 60, 65/20 SSE 6
Altimeter Setting 30.05.

The exact location where the witnesses to these aerobatics sighted the craft was the 768th AC&W Sqdn. area, Moriarity, New Mexico, in front of the dinning hall. The visual contact can be considered authentic and the personnel involved can be considered reliable as far as the organization is concerned.

Significance of Incident:

Four (4) individuals saw this object, all four (4) individuals work with and are familiar with modern aircraft; the object did not in any way resemble a modern conventional or jet aircraft.

Nine (9) INCLS.

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[redacted]
(CLASSIFICATION)

16—55589-1 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950

AF FORM 112—PART II
APPROVED 1 JUNE 1948

[redacted]
(CLASSIFICATION)

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE One (1) OF One (1) PAGES
768th AC&W Sqdn.	Not Applicable	

(a) Shape: Circular and Flat
Size: Unk.
Color: Silver
Number: One (1)
Sound: None
Unusual Featrues: Speed and Maneuverability
Speed: Unk.
(b) Time Sighted: 1645 MST
(c) Visual Observation
(d) In front of Dinning Hall
(e) Observer is reliable and experienced
(f) Weather Clear, visibility good
(g) None
(h) None
(i) None
(j) None

The information given above by S/Sgt. John R. O'Neal is true and correct to the best of his ability and knowledge.

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[redacted]
(CLASSIFICATION)

16—65970-1 ☆ U. S. GOVERNMENT PRINTING OFFICE : 1950—O-918332

AF FORM 112—PART II
APPROVED 1 JUNE 1948

[redacted]

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AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE One (1) OF One (1) PAGES
766Th ACSW Sqdn.	Not Applicable	

(a) Shape: Round and Flat
Size: Unk.
Color: Silver
Number: One (1)
Sound: None
Unusual Features: No trail of exhaust, manner of disappearance was distance
Speed: Faster than any known Jet
(b) Time Sighted: 1645 MST
(c) Visual observation, estimated 40,000 feet
(d) In front of Squadron Dinning Hall
(e) Observer is reliable and experienced
(f) Weather Clear, visibility good
(g) None
(h) None
(i) None
(j) None

The information given above by A/1C David C. Miller is true and correct to the best of his ability and knowledge.

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[redacted]
(CLASSIFICATION)

U. S. GOVERNMENT PRINTING OFFICE : 1950—O-918332

AF FORM 112—PART II
APPROVED 1 JUNE 1948

[redacted]

UNCLASSIFIED

AIR INTELLIGENCE INFORMATION REPORT

FROM (Agency)	REPORT NO.	PAGE One (1) OF One (1) PAGES
768th ACW Sqdn.	Not Applicable	

(a) Shape: Round and Flat
Size: Unk.
Color: Metalic
Number: One (1)
Sound: None
Unusual Features: Speed and Maneuverability
Speed: Unk.
(b) Time Sighted: 1645 MST
(c) Object flew east, disappeared in turn to north, sighted north of disappearance, made a vertical dive and disappeared again. Reappeared south of first disappearance.
(d) In front of Dinning Hall, Eastward direction
(e) Observer is reliable and experienced
(f) Weather clear, visibility good
(g) None
(h) None
(i) None
(j) None

The information given above by A/B [redacted] is true and correct to the best of his ability and knowledge.

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[redacted]

[redacted]

SWORN STATEMENT

UNCLASSIFIED

22 April 1952

I, A/2C [redacted], 768th Aircraft Control and Warning Squadron, Moriarity, New Mexico, do hereby wish to make the following statement:

Upon leaving the dining hall, 13 April 1952, my attention was directed to an aircraft, which I thought to be a Jet type. After observing this object for approximately four to five minutes, I knew that this was something extraordinary due to its maneuverability. Once during the five minutes I lost sight of it and in no time at all it showed up a great distance away from the point where I lost sight of him. My idea of its structure is confusing, seeing that I couldn't make out wings on this object. Also, due to the distance at which I observed this object, I cannot go into any great detail as to its structure.

Attached hereon is the approximate path of flight the object was in as I saw it.

[redacted]

A/2C, AF 11195514

Sworn to and subscribed before me this 22d day of April 1952.

PARKER F JONES
Captain, USAF
Adjutant
768th AC&W Sq., Moriarity, New Mexico

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UNCLASSIFIED

[redacted]

Enc 6

[redacted]

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This area was slightly darker than rest of body. Not treated from body.

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DOD DIR 5200.10

* Not to scale.

[redacted]

W/c AF 1119 S 3/4

UNCLASSIFIED

[redacted]

[redacted]

SWORN STATEMENT

UNCLASSIFIED

22 April 1952

I, S/Sgt [redacted] 768th Aircraft Control and Warning Squadron, Moriarity, New Mexico, do hereby wish to make the following statement:

On 13 April 1952, while leaving the mess hall a strange type of aircraft was pointed out to me by another airman. This aircraft was circular in shape and flat, flying on edge. I was unable to estimate the size but the color was unmistakably silver. There was no sound or exhaust trail. The features which struck me as so unusual was the manouvorability and speed. The aircraft followed an extremely erratic flight pattern. As well as I could observe it remained in level flight for only a matter of seconds. The remaining time was spent in either climbing or diving. I was able to observe this aircraft for approximately three minutes until it flew out of sight.

Attached hereon is the flight pattern the aircraft took as I saw it.

[redacted]
S/Sgt, AF 15415547

Sworn to and subscribed before me this 22d day of April 1952.

PARKER F JONES
Captain, USAF
Adjutant
768th ACEW Sq., Moriarity, New Mexico

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[redacted]

Incl 7z

SECRET

UNCLASSIFIED



← OBJECT

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DOD DIR 5200.10

HORIZON

UNCLASSIFIED

SECRET

NOT TO SCALE

Sheet 6 of 7

[redacted]

SWORN STATEMENT

UNCLASSIFIED

I, [redacted] A/1C [redacted] AF, 768th Aircraft Control and Warning Squadron, Moriarity, New Mexico, do hereby make the following statement:

On 13 April 1952, I was coming out of the Squadron Mess Hall when I saw what looked like a flying saucer. The time was about 1645 mountian standard time. The ofject was traveling at an unestimated speed and at what looked like to be flying at approximately 40,000 feet. The object was visible until it turned sideways at which time it disappeared because of it's saucer like shape. After approximately five (5) to ten (10) minutes after sighting subject object it disappeared.

[redacted]
DAVID C. MILLER
[redacted]

Sworn to and subcribed before me on this 22nd day of April 1952.

Parker F Jones
PARKER F JONES
Captain, USAF
Adjutant
768th AC&W Sq, Moriarity, N Mex

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[redacted]

STATION

LAT. LONG.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

WINDS ALOFT COMPUTATION SHEET

(LAND STATION FORM)
WBAN-30

DEPARTMENT OF COMMERCE
WEATHER BUREAU

COMPUTATION SHEET

NDICATION FORM
WBAN-30

Elevation of observation point Above M.S.L.

		Altitude									

RASON TIME-ALTITUDE DATA

Observer

19																19	83	18,245	11
20																20	85	18,515	11
21																21	86	18,795	11
22																22	87	19,080	11
23																23	88	19,360	11
24																24	89	19,635	11
25																25	70	19,925	11
26																26	71	20,210	11
27																27	72	20,490	11
28																28	73	20,775	11
29																29	74	21,055	11
30																30	75	21,340	11
31																31	76	21,620	11
32																32	77	21,905	11
33																33	78	22,185	11
34																34	79	22,470	11
35																35	80	22,750	11
36																36	81	23,040	11
37																37	82	23,320	11
38																38	83	23,600	11
39																39	84	23,880	11
40																40	85	24,160	11
41																41	86	24,440	11
42																42	87	24,720	11
43																43	88	25,010	11
44																44	89	25,300	11
45																45	90	25,580	11

Transmitter equipment

Weight of balloon _____ grams Color of balloon _____ NOTES

Weight of gas _____ grams Type of target or transmitter _____

Weight of target or transmitter _____ grams

Total lift _____ grams

Ascension rate _____ grams

CODED DATA																			

H = Standard level indicator dd = Wind direction in tens of Degrees

RASON TIME ALTITUDE DATA

Observer

| | | |

...TES DEPARTMENT OF COMMERCE
WEATHER BUREAU

...LOFT COMPUTATION SHEET
(LAND STATION FORM)

WBAN-20

Release Date and Time				
	Year	Month	Day	GMT
1 In Mem	[illegible]	APR	13	1940
Observed	[illegible]	APR	13	2040

[illegible] (Elevation of Observation Point Above MSL) 6870 1967 (Ground Temperature)

Time (GMT)	Minute	Minutes	Altitudes: 100 gram balloon (Ft. MSL)	Altitudes: 50 gram balloon (Ft. MSL)	Direct (With Gradient)	Elevation Angle	Azimuth Angle	Distance (Feet Corrected for Curvature)	Slant Range (Feet)	Wind Direction (Degrees)	Wind Speed (Knots)	Minute
[illegible]	Sfc											
[illegible]	1	46	13,075	8,570								46
[illegible]	2	47	13,375	8,650								47
[illegible]	3	48	13,675	8,730								48
[illegible]	4	49	13,975	8,810								49
[illegible]	5	50	14,275	9,000								50
[illegible]	6	51	14,570	9,210								51
[illegible]	7	52	14,860	9,450								52
[illegible]	8	53	15,145	9,630								53
[illegible]	9	54	15,425	9,810								54
[illegible]	10	55	15,705	9,990								55
[illegible]	11	56	15,985	10,170								56
[illegible]	12	57	16,265	10,350								57
[illegible]	13	58	16,545	10,530								58
[illegible]	14	59	16,825	10,710								59
[illegible]	15	60	17,105	10,890								60
[illegible]	16	61	17,385	11,070								61
[illegible]	17	62	17,670	11,250								62
[illegible]	18	63	17,950	11,430								63
[illegible]	19	64	18,245	11,610								64
[illegible]	20	65	18,535	11,790								65
[illegible]	21	66	18,795	11,970								66
[illegible]	22	67	19,080	12,150								67
[illegible]	23	68	19,360	12,330								68
[illegible]	24	69	19,645	12,510								69
[illegible]	25	70	19,925	12,690								70
[illegible]	26	71	20,210	12,870								71
[illegible]	27	72	20,491	13,050								72
[illegible]	28	73	20,775	13,230								73
[illegible]	29	74	21,055	13,410								74
[illegible]	30	75	21,340	13,590								75
[illegible]	31	76	21,620	13,770								76
[illegible]	32	77	21,905	13,950								77
[illegible]	33	78	22,185	14,130								78
[illegible]	34	79	22,470	14,310								79
[illegible]	35	80	22,750	14,490								80
[illegible]	36	81	23,040	14,670								81
[illegible]	37	82	23,320	14,850								82
[illegible]	38	83	23,600	15,030								83
[illegible]	39	84	23,880	15,210								84
[illegible]	40	85	24,160	15,390								85
[illegible]	41	86	24,440	15,570								86
[illegible]	42	87	24,720	15,750								87
[illegible]	43	88	25,010	15,930								88
[illegible]	44	89	25,300	16,110								89
[illegible]	45	90	25,580	16,290								90

NOTES: [illegible]

STATION

LAT LONG

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

WINDS ALOFT COMPUTATION SHEET
(LAND STATION FORM)
WBAN 30

Min	100 Meter Height	90 Meter Height	Diff.	Height	Angle	Difference	Sine Angle W.V.H. Cor.	Wind Cor.	Wind	Min	Min	Alt	Alt	
STA														
1	300	270								1	15			
2	670	610								2	17			
3	980	910								3	19			
4	1 255	1 180								4	19			
5	1 550	1 470								5	20			
6	1 850	1 770								6	20			
7	2 150	2 060								7	20			
8	2 455	2 360								8	20			
9	2 760	2 660								9	20			
10	3 060	2 960								10	20			
11	3 360	3 260								11	20			
12	3 660	3 560								12	20			
13	3 960	3 860								13	20			
14	4 260	4 160								14	20			
15	4 565	4 460								15	20			
16	4 870	4 760								16	20			
17	5 165	5 060								17	20			
18	5 465	5 360								18	20			
19	5 765	5 660								19	20			
20	6 065	5 960								20	20			
21	6 365	6 260								21	20			
22	6 665	6 560								22	20			
23	6 965	6 860								23	20			
24	7 265	7 160								24	20			
25	7 565	7 460								25	20			
26	7 870	7 760								26	20			
27	8 165	8 060								27	20			
28	8 465	8 360								28	20			
29	8 765	8 660								29	20			
30	9 065	8 960								30	20			
31	9 365	9 260								31	20			
32	9 665	9 560								32	20			
33	9 965	9 860								33	20			
34	10 265	10 160								34	20			
35	10 560	10 460								35	20			
36	10 865	10 760								36	20			
37	11 165	11 060								37	20			
38	11 460	11 360								38	20			
39	11 765	11 660								39	20			
40	12 065	11 960								40	20			
41	12 365	12 260								41	20			
42	12 665	12 560								42	20			
43	12 965	12 860								43	20			
44	13 265	13 160								44	20			
45	13 565	13 460								45	20			

Temperature Gradient

U. S. DEPARTMENT OF COMMERCE WEATHER BUREAU

WINDS ALOFT GRAPH

WBAN 20A

Ascension No. 197

Release Date and Time	Year	Month	Day	Time
Local Mer.			12	1940
G.C.T.			13	0040

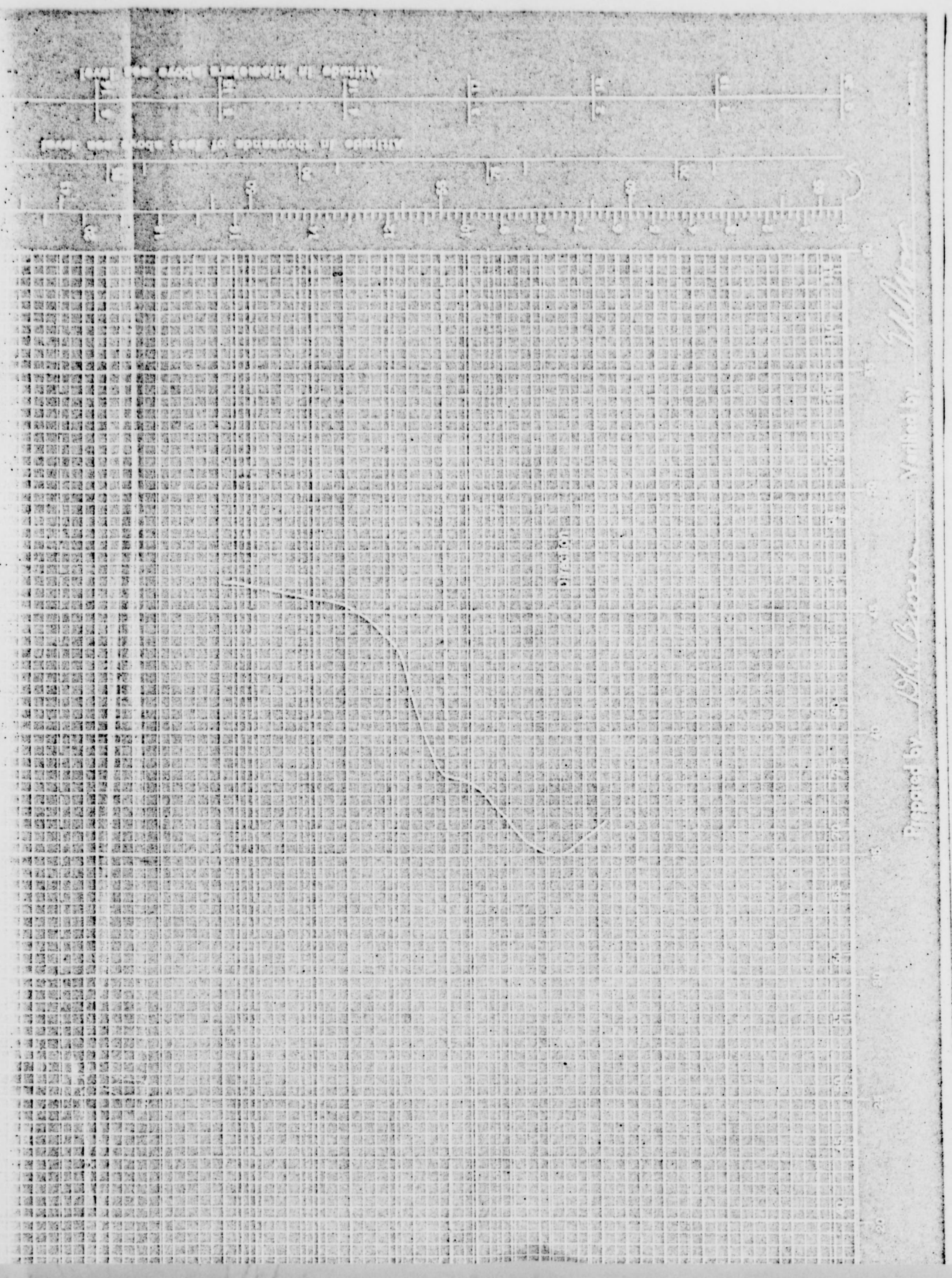
SERIAL DATA FOR TRANSCRIPTION TO PUNCHED CARDS

M	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	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

00	01	02	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	41	42	43	44	45	46

47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80

00	01	02	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	41	42	43	44	45	46



Station: Kelly, Tex. KELW

Lat. ____ Long. ____ ° '

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

WINDS ALOFT GRAPH

WBAN 20A

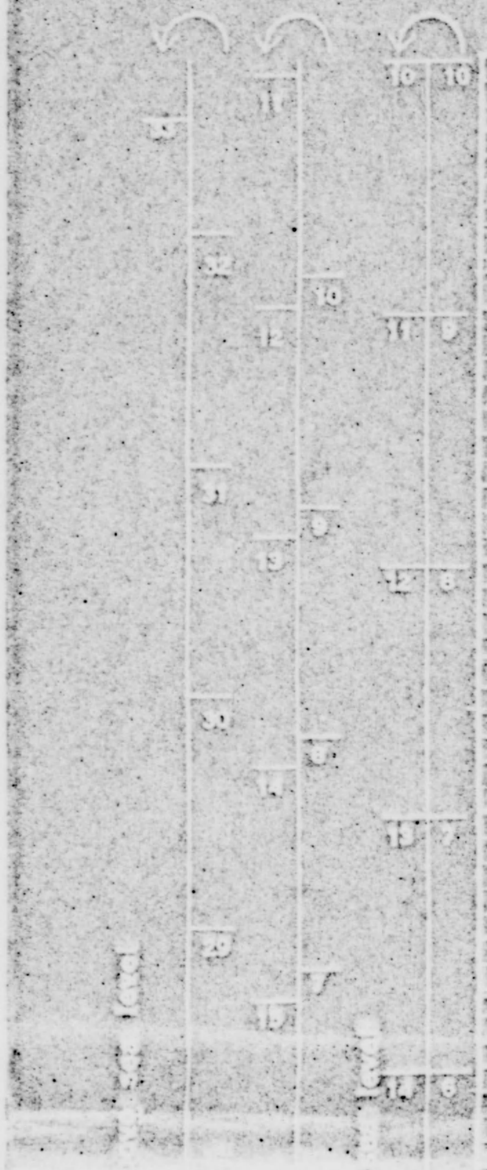
Ascension No. 4717

STANDARD SHORT DATA FOR TRANSMISSION TO RUNOFF CARDS

Altitude (1000)																															
Solutions (0 or 12)																															
Solutions (6 or 18)																															

Wind Direction — True Direction Points Compass Points

N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW



Altitude in thousands of yards above sea level

Altitude in kilometers above sea level

RASON TIME ALTITUDE

		1		51	18,285	14,010								51
		20		52	18,515	14,190								52
		21		53	18,795	14,370								53
		22		54	19,080	14,550								54
		23		55	19,360	14,730								55
		24		56	19,645	14,910								56
		25		57	19,925	15,090								57
		26		58	20,210	15,270								58
		27		59	20,490	15,450								59
		28		60	20,775	15,630								60
		29		61	21,055	15,810								61
		30		62	21,340	15,990								62
		31		63	21,620	16,170								63
		32		64	21,905	16,350								64
		33		65	22,185	16,530								65
		34		66	22,470	16,710								66
		35		67	22,750	16,890								67
		36		68	23,040	17,070								68
		37		69	23,320	17,250								69
		38		70	23,600	17,430								70
		39		71	23,880	17,610								71
		40		72	24,160	17,790								72
		41		73	24,440	17,970								73
		42		74	24,720	18,150								74
		43		75	25,000	18,330								75
		44		76	25,280	18,510								76
		45		77	25,560	18,690								77
		46		78	25,840	18,870								78
		47		79	26,120	19,050								79
		48		80	26,400	19,230								80
		49		81	26,680	19,410								81
		50		82	26,960	19,590								82
		51		83	27,240	19,770								83
		52		84	27,520	19,950								84
		53		85	27,800	20,130								85
		54		86	28,080	20,310								86
		55		87	28,360	20,490								87
		56		88	28,640	20,670								88
		57		89	28,920	20,850								89
		58		90	29,200	21,030								90

11	12	13	14	15	16	17	18	19	20	21	22	23	24	
7		3	98	2	20	02	22	07	8	23	03	20	97	0	27	17	
27		22	40	3	28	47											

M = Wind direction in tens of degrees K = Wind speed in knots

RASON TIME ALTITUDE DATA

0	5	10	15	20	25	30	35	40	45	50	55	60	65	70

75	80	85	90	95	100	105	110	115	120	125	130	135	140	145

Observer [illegible] Recorder [illegible]

ARTMENT OF COMMERCE
BUREAU
COMPUTATION SHEET
DN FORM
AN 20

Solution Date (mo.) (day) (time)

	Year	Month	Day	Time
1125 Sun Mer	1952	APR	13	1356
Sun	1952	APR	13	2056

Elevation of observation point above MSL: 2044 ft (623 m) 1320 ft (402 m)

Minute	Altitude: 100 mph Isotach (161 km/hr)	Altitude: 50 mph Isotach (81 km/hr)	Depth Index (mm Hg)	Latitude angle	Azimuth angle	Distance (nautical miles) observer to ion point	Sheet PAWN (yes/no)	Wind dir 6000 ft (1829 m)	Wind dir surface	Minute
46	13,970	8,570								46
47	13,975	8,600								47
48	13,975	8,730								48
49	13,975	8,910								49
50	14,225	9,080								50
51	14,570	9,270								51
52	14,800	9,450								52
53	15,145	9,630								53
54	15,425	9,810								54
55	15,705	9,990								55
56	15,985	10,170								56
57	16,265	10,350								57
58	16,545	10,530								58
59	16,825	10,710								59
60	17,105	10,890								60
61	17,385	11,070								61
62	17,670	11,250								62
63	17,950	11,420								63
64	18,235	11,610								64
65	18,515	11,790								65
66	18,795	11,970								66
67	19,080	12,150								67
68	19,360	12,330								68
69	19,635	12,510								69
70	19,925	12,690								70
71	20,210	12,870								71
72	20,490	13,050								72
73	20,775	13,230								73
74	21,055	13,410								74
75	21,340	13,590								75
76	21,620	13,770								76
77	21,905	13,950								77
78	22,185	14,130								78
79	22,470	14,310								79
80	22,750	14,490								80
81	23,030	14,670								81
82	23,320	14,850								82
83	23,600	15,030								83
84	23,880	15,210								84
85	24,160	15,390								85
86	24,440	15,570								86
87	24,730	15,750								87
88	25,010	15,930								88
89	25,300	16,110								89

STATION: Roswell, N. M. (Airport)

LAT. [illegible] N LONG [illegible] W

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

WINDS ALOFT COMPUTATION SHEET

(LAND STATION FORM)
WBAN-50

1													
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U. S. DEPARTMENT OF COMMERCE WEATHER BUREAU

WINDS ALOFT GRAPH

WBAN-20A

Ascension No. 0411

Release Date and Time				
	Year	Month	Day	Time
LST 4th Mid	54	04	13	1356
G C T	54	04	13	2056

AID IN LEVEL DATA FOR TRANSCRIPTION TO PUNCHED CARDS

00	01	02	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	41	42	43	44	45	46	47	48	49	50

00	01	02	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	41	42	43	44	45	46	47	48	49	50

00	01	02	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	41	42	43	44	45	46	47	48	49	50

Station

Lat. Long.

U.S. DEPARTMENT OF COMMERCE — Weather Bureau

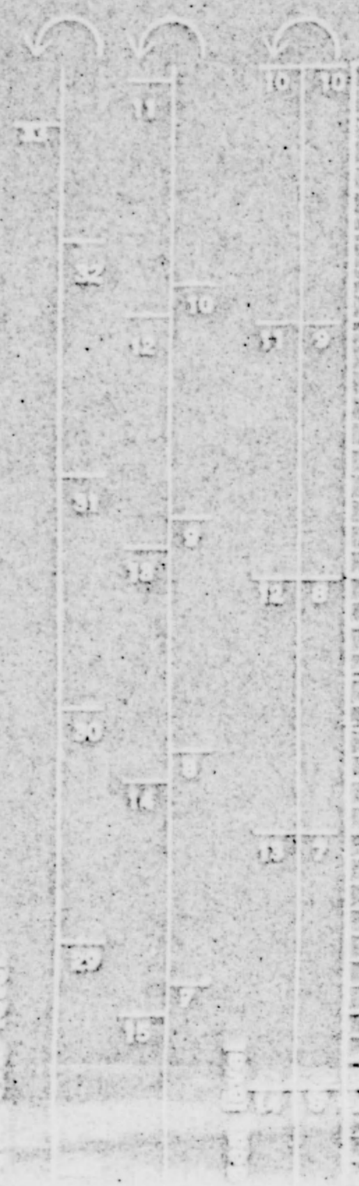
WINDS ALOFT GRAPH

WBAN-20A

Abstraction No.

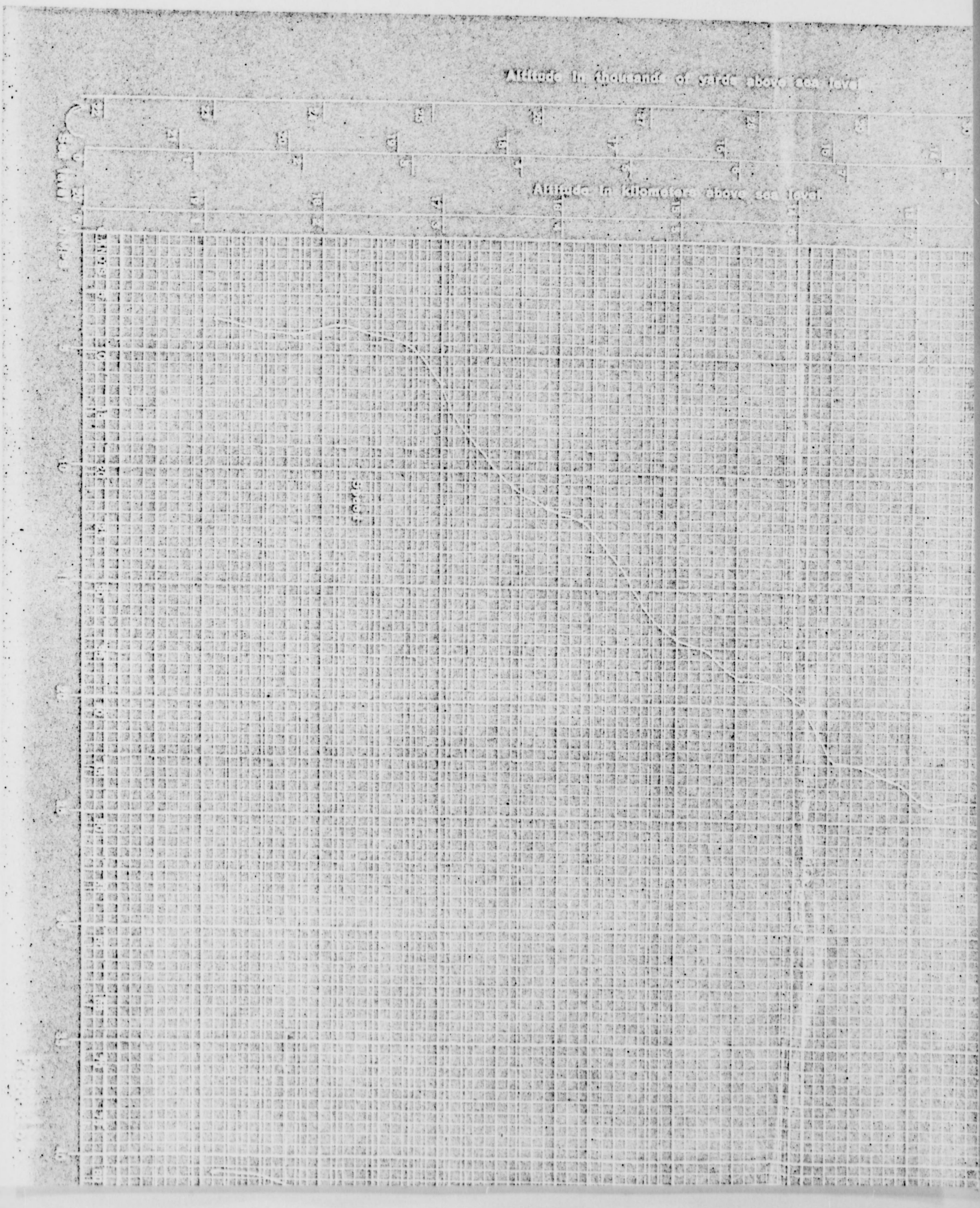
USE STANDARD PENCIL FOR ENTRIES. MAKE ALL ENTRIES IN NORTHEASTERN PART OF BOX.

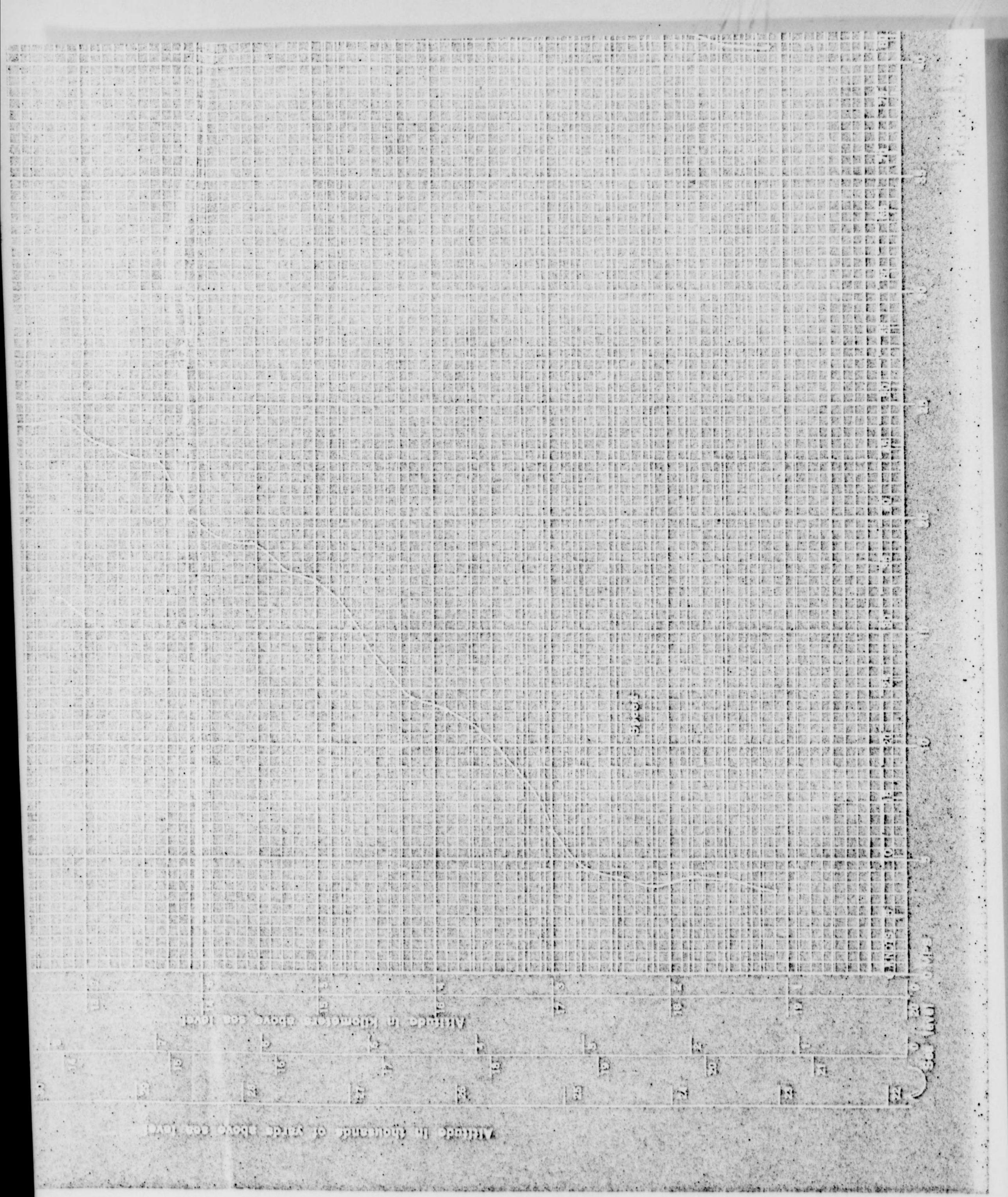
Speed (Knots)	SIG	00	03	06	09	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120
Direction (10 Pts.)	88																																										
Speed (MPH or Kt.)	04																																										



Wind Direction — Tick Degree Points / Compass Points: 02 NE, 05 E, 08 SE, 11 S, 14 SW, 17 W, 20 NW, 23 N, 26 NE, 29 E, 32 SE, 35 S

Right to Left Reading


Altitude in thousands of yards above sea level
Altitude in kilometers above sea level


Altitude in kilometers above sea level
Altitude in fluorescence of water above sea level

BASELINE CHECK READINGS

Time (G.C.T.)	TEMPERATURE Dry	TEMPERATURE Wet	RELATIVE HUMIDITY Dry	RELATIVE HUMIDITY Wet	RELATIVE HUMIDITY Psychrometer

ADIABATIC CHART

YBAN-51A

9 Km −40°

8 Km −30°

7 Km −20°

6 Km −10°

5 Km 0°(C)

Mb

400

450

500

550

600

650

700

750

800

850

ADIABATIC CHART

WEATHER

5 Km
0° (C)

4 Km
10°

(Km)
0°

400

450

500

550

600

650

700

DRY BULB °C

PRESSURE

DEW POINT °C

RELATIVE HUMIDITY %

MIXING RATIO

SIGNIFICANT LEVELS

COMPUTATIONAL DATA

COMPUTATIONAL DATA

COMPUTATIONAL DATA

CODED MESSAGE FOR TRANSMISSION

U.S. DEPARTMENT OF COMMERCE

WINDS ALOF

WBAN

AGENCY NO.

RADIOSONDE OBSERVATION

Station

Lat. Long.

Date of Flight

Release Time

Ground Elev.

Pressure Sensor

Temperature Sensor

Humidity Sensor

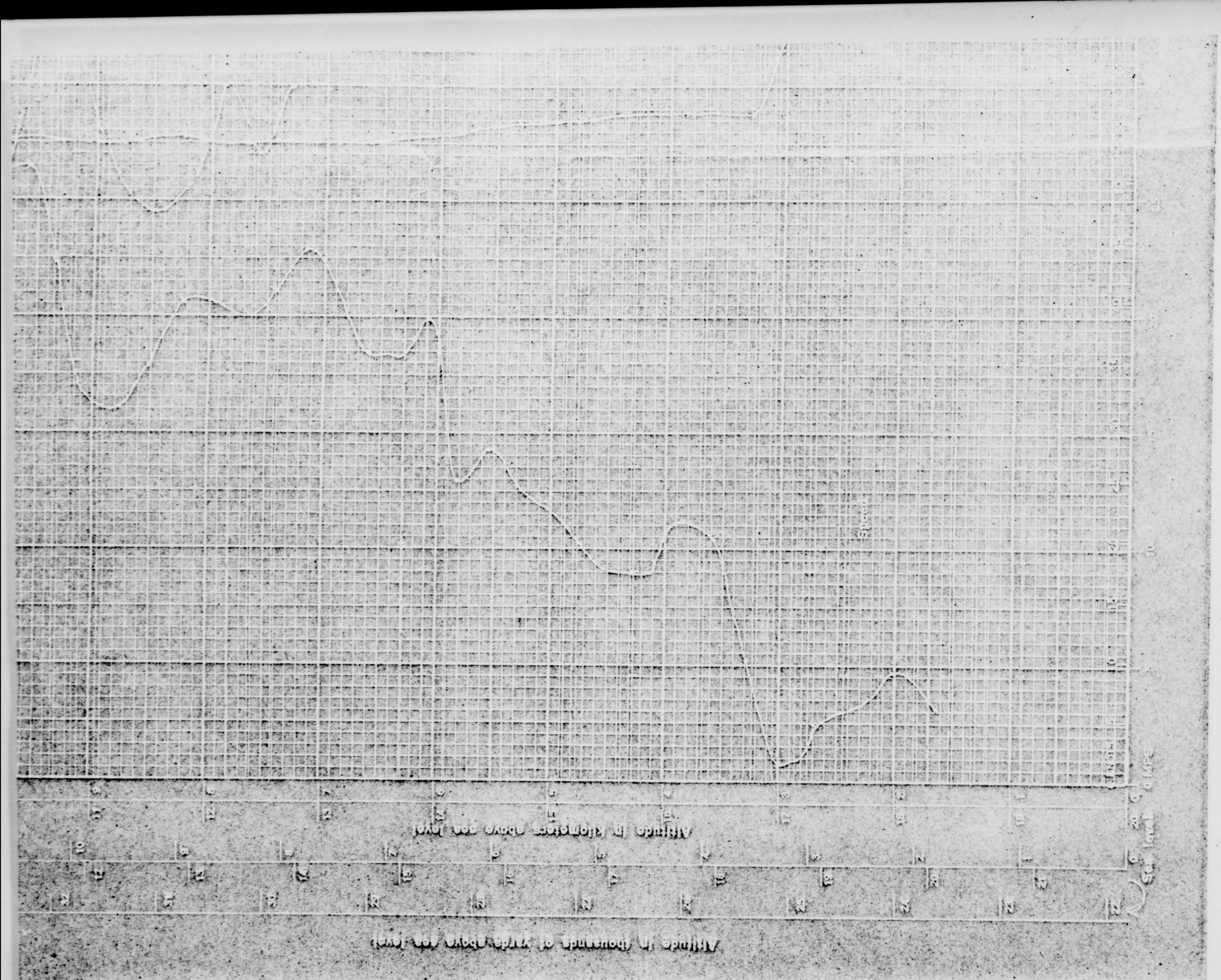
Radiosonde No.

Wind Direction

Pressure (mb)

Altitude in Thousands of Feet above Sea Level

Altitude in Kilometers above Sea Level



DEPARTMENT OF COMMERCE
WEATHER BUREAU

COMPUTATION SHEET
AND STATION FORM

WBAN 30

Relative Data And Time	Year	Month	Day	Time
10 Cm MW	1952	APR	18	1400
0.6 T	1952	APR	18	2100

Elevation of Observation Point Above Mean Sea Level 845 Feet (Ground)

Minute	Wind Speed (Miles Per Hour)	Wind Direction (Tens of Degrees)	Wind Speed (Miles Per Hour)	Wind Direction (Tens of Degrees)	Other (Specify)	Elevation Angle	Azimuth Angle	Observed Slant Range (Nautical Miles)	Slant Range Correction (Nautical Miles)	Weather Code	Weather Observed	Minute
Sec.												Sec.
1	40	18,070	8,870									1
2	42	18,275	8,960									2
3	45	18,470	9,080									3
4	48	18,675	9,210									4
5	50	18,875	9,300									5
6	51	18,970	9,370									6
7	52	19,060	9,450									7
8	53	19,145	9,530									8
9	54	19,225	9,610									9
10	55	19,305	9,690									10
11	56	19,385	10,170									11
12	57	16,265	10,350									12
13	58	16,345	10,530									13
14	59	16,425	10,710									14
15	60	17,105	10,890									15
16	61	17,185	11,070									16
17	62	17,270	11,250									17
18	63	17,350	11,430									18
19	64	18,225	11,610									19
20	65	18,305	11,790									20
21	66	18,385	11,970									21
22	67	19,080	12,150									22
23	68	19,360	12,330									23
24	69	19,635	12,510									24
25	70	19,925	12,690									25
26	71	20,240	12,870									26
27	72	20,490	13,050									27
28	73	20,775	13,230									28
29	74	21,065	13,410									29
30	75	21,340	13,590									30
31	76	21,620	13,770									31
32	77	21,905	13,950									32
33	78	22,185	14,130									33
34	79	22,470	14,310									34
35	80	22,750	14,490									35
36	81	23,040	14,670									36
37	82	23,320	14,850									37
38	83	23,600	15,030									38
39	84	23,880	15,210									39
40	85	24,160	15,390									40
41	86	24,440	15,570									41
42	87	24,730	15,750									42
43	88	25,010	15,930									43
44	89	25,300	16,110									44
45	90	25,580	16,290									45

STATION Albuquerque New Mexico
Kirtland Field

LAT 35 03 N LONG 106 37 W

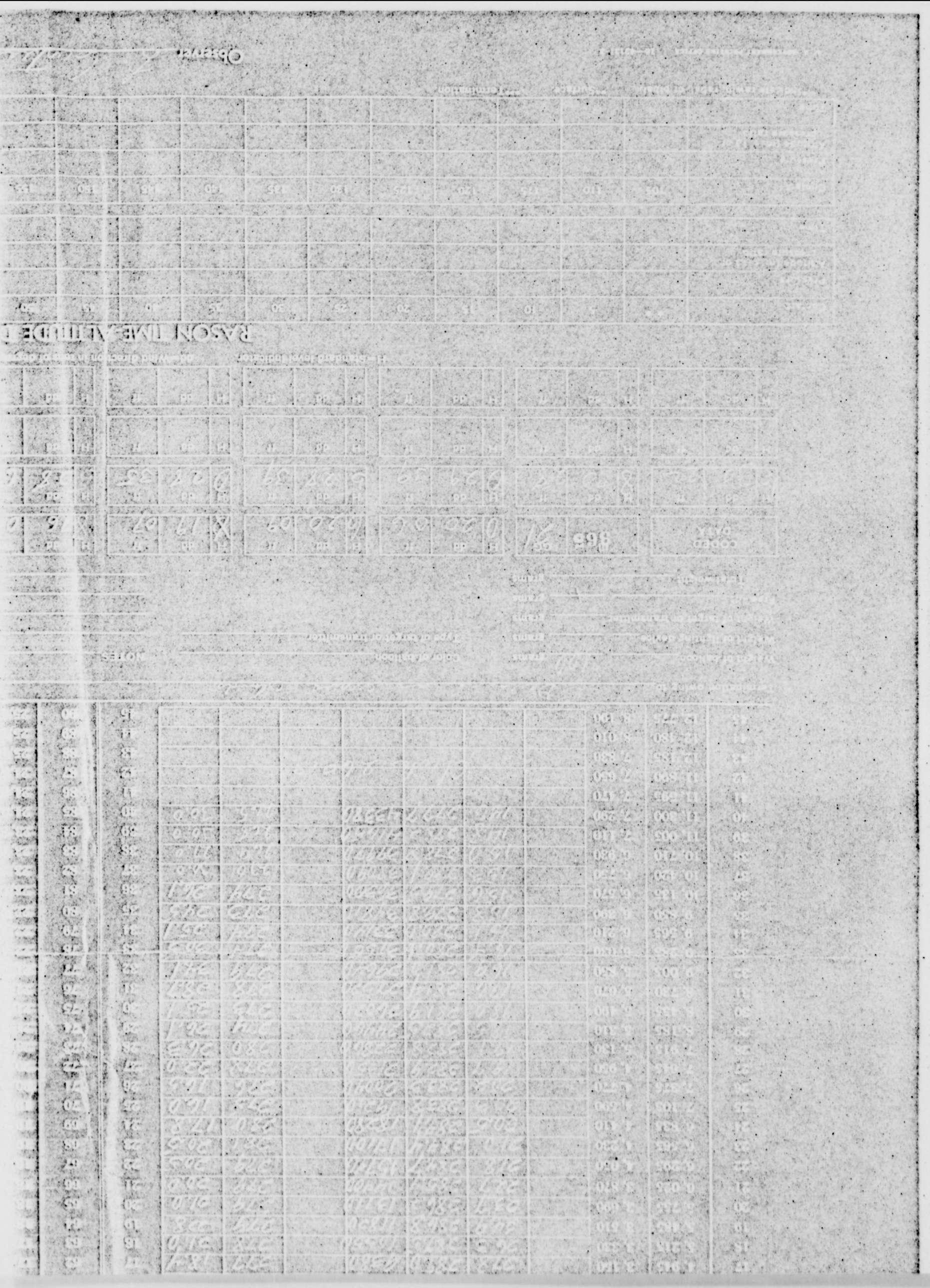
WBAN Form No. 1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU

WINDS ALOFT COMPUTATION SHEET
(LAND STATIONS FORM)
WBAN 50

4116

Min	Ht	Dir	Vel	Temp	Dew Point	Wind Dir	Wind Vel	Wind Dir	Wind Vel	Temp	Dew Point
SFC											
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
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45											



Prepared by J. E. Hanlon Verified by L. Carter

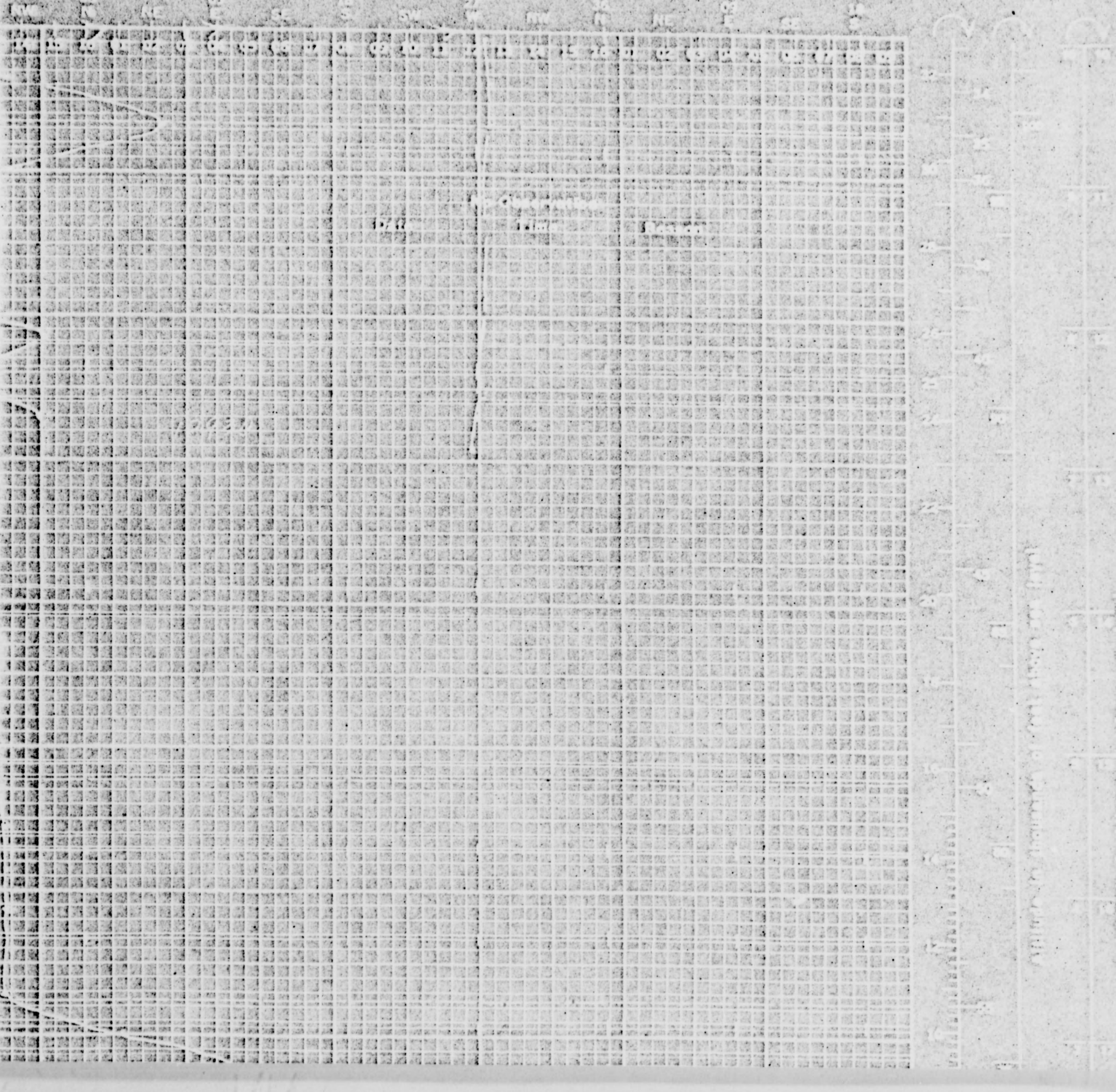
LOFT GRAPH

BAN-20A

No. 4 1 6

Release Date and Time

	Year	Month	Day	
Local Mean	1957			
G C T				



Altitude in Thousands of Feet above Sea Level

Altitude in Kilometers above Sea Level

Speed

Mach Numbers

Station

Lat. Long.

WINDS ALOFT GRAPH

WBAN-30A

Ascension No.

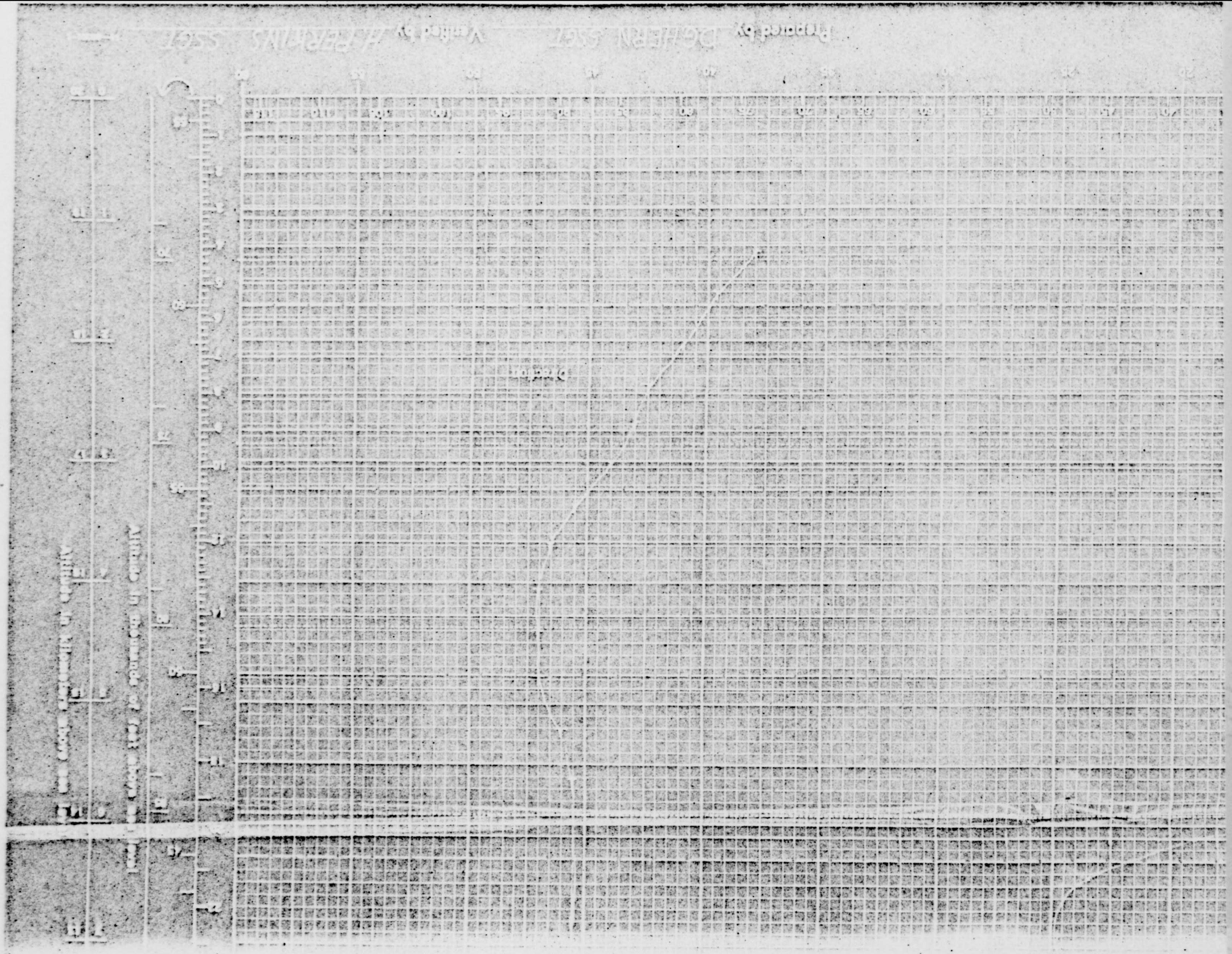
STANDARD LEVEL DATA FOR TRANSCRIPTION TO PUNCHED CARDS

Altitude (kkm)	SFC	0.5	1.0	1.5	2.0	2.5	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Direction (Tens)																																
Speed (kts, U=S)																																

Wind Direction — Key Punch Directive Figures — Compass Points

N NNE NE ENE E ESE SE SSE S SSW SW WSW W WNW NW NNW N





WINDS ALOFT GRAPH

WBAN-20A

Ascension No.

Release Date and Time				
	Year	Month	Day	Hour
24th Mtg.	1954	April	21	11:30
G.C.T.	1954	April	22	2:30

STANDARD LEVEL DATA FOR TRANSCRIPTION TO PUNCHED CARDS

| | | | |

ALOFT COMPUTATION SHEET

(RAOB STATION FORM)

WBAK-20

(a)	(b)	(c)	(d)	(e)

Elevation of observation point above MSL ____ (ICE) ____ (MSL)

Min Sig Level	Mand Level	Height	Alternate Temp	Alternate Dew Point	Alternate Wind	Elevation Angle	Distance from observation point	Slant Range	Wind Direction	Wind Speed	Remarks
SFC											
1000											
925	1	2,500	27,000								
900	2	3,220	28,500								
850	3	4,870	29,700								
800	4	6,660	30,300								
750	5	8,460	30,900								
700	6	10,300	31,500								
650	7	12,180	32,100								
600	8	14,090	32,700								
550	9	16,080	33,300								
500	10	18,140	33,900								
450	11	20,270	34,500								
400	12	22,470	35,100								
350	13	24,810	35,700								
300	14	27,360	36,300								
250	15	30,220	36,900								
200	16	33,530	37,500								
150	17	37,490	38,100								
100	18	42,420	38,700								
70	19	45,470	39,300								
50	20	48,300	39,900								
30	21	51,430	40,500								
20	22	54,530	41,100								
10	23	58,490	41,700								
7	24	61,480	42,300								
5	25	64,480	42,900								
3	26	70,470	43,500								
2	27	74,430	44,100								
1	28	77,420	44,700								
	29	79,410	45,300								
	30	82,400	45,900								
	31	85,360	46,500								
	32	87,350	47,100								
	33	88,300	47,700								
	34	89,290	48,300								
	35	90,280	48,900								
	36	91,270	49,500								
	37	92,260	50,100								
	38	93,220	50,700								
	39	94,210	51,300								
	40	95,170	51,900								
	41	96,160	52,500								
	42	97,150	53,100								
	43	98,110	53,700								
	44	99,100	54,300								

STATION

LAT. _____ LONG. _____

WINDS ALOFT COMPUTATION SHEET

9800 (LATE) STATION (OLD)

WBAN-20

Ascension No. _____ Method of observation Radar (LATE)

Minutes	Altitude (Feet)	Altitude (Meters)	Change (Meters)	Elevation angle C	Azimuth angle Q	Direct Component (Feet)	Slant Range (Feet)	Wind Direction (000° Clockwise)	Wind Speed (Knots)	Minutes	Minutes	Altitude (Feet)	Altitude (Meters)	
Sfc.										Sfc.				
1	1,170	720								1	46	46,670	22,500	
2	2,340	1,500								2	47	46,970	23,100	
3	3,450	2,090								3	48	47,270	23,700	
4	4,560	2,670								4	49	47,570	24,300	
5	5,670	3,300								5	50	47,860	24,900	
6	6,750	3,900								6	51	48,150	25,500	
7	7,850	4,500								7	52	48,440	26,100	
8	8,910	5,100								8	53	48,730	26,700	
9	9,960	5,700								9	54	49,020	27,300	
10	11,010	6,300								10	55	49,310	27,900	
11	12,060	6,900								11	56	49,600	28,500	
12	13,020	7,500								12	57	49,890	29,100	
13	14,010	8,100								13	58	50,180	29,700	
14	15,000	8,700								14	59	50,480	30,300	
15	15,960	9,300								15	60	50,770	30,900	
16	16,920	9,900								16	61	51,060	31,500	
17	17,880	10,500								17	62	51,350	32,100	
18	18,840	11,100								18	63	51,640	32,700	
19	19,800	11,700								19	64	51,930	33,300	
20	20,760	12,300								20	65	52,220	33,900	
21	21,720	12,900								21	66	52,510	34,500	
22	22,680	13,500								22	67	52,800	35,100	
23	23,640	14,100								23	68	53,090	35,700	
24	24,600	14,700								24	69	53,380	36,300	
25	25,560	15,300								25	70	53,670	36,900	
26	26,520	15,900								26	71	53,960	37,500	
27	27,480	16,500								27	72	54,250	38,100	
28	28,430	17,100								28	73	54,540	38,700	
29	29,400	17,700								29	74	54,830	39,300	
30	30,360	18,300								30	75	55,120	39,900	
31	31,320	18,900								31	76	55,410	40,500	
32	32,280	19,500								32	77	55,700	41,100	
33	33,240	20,100								33	78	55,990	41,700	
34	34,200	20,700								34	79	56,280	42,300	
35	35,160	21,300								35	80	56,570	42,900	
36	36,120	21,900								36	81	56,860	43,500	
37	37,080	22,500								37	82	57,150	44,100	
38	38,100	23,100								38	83	57,440	44,700	
39	39,060	23,700								39	84	57,740	45,300	
40	40,050	24,300								40	85	58,030	45,900	
41	41,040	24,900								41	86	58,320	46,500	
42	42,030	25,500								42	87	58,610	47,100	
43	42,990	26,100								43	88	58,900	47,700	
44	43,980	26,700								44	89	59,190	48,300	
45	44,970	27,300								45	90	59,480	48,900	

Formulation on _____ by _____

Weight of balloon _____ grams Color of balloon _____ Lot No. _____

Weight of attaching device _____ grams Type of tracking equipment used _____

Kenna
Pep
COCHRAN CO
3750 — — 30
Elkins
ELKINS
.4502
FLYING M RANCH
4360 — — 19
FLYING M
Milnesand
RED 71
Morton
Lehman
Bledsoe
Whiteface
078°
Acme
209°
330
ROSWELL RADIO
ROW
ROSWELL
3621 ± H 56
Roswell
Caprock
4506
SUNDOWN
3500 — — 2
Tatum
YOAKUM COUNTY
3650 — — 30
PIPE LINE
Plains
Tokio
ROSWELL RADIO
305 ROW
MOORE Dexter
3450 — — 26
ROSWELL NO 3 (ARMY)
3712 — H 70
HOBBS AF NO 1
3650 — H 70
HUMBLE
3584 — — 42
Lake Arthur
.3765
LOVINGTON
3985 — — 36
Lovington
Denver City
Seagraves
ARTESIA
3550 L H 69
Artesia
Maljamar
Hope
RED 88
HOBBS RADIO
293 HOB
Humble City
AIR BASE CITY
3707 L H 88
Rio Penasco
3630 ±
3571
HOBBS AF NO 4
3777 — H 70
Lake McMillan
LEA COUNTY
3659 L H 54
Hobbs
Seminole
HOBBS RADIO
114.3 HOB
Carlsbad
CARLSBAD
3276 L H 66
.3578
.3630
RED 91
Eunice
Ranch
CARLSBAD RADIO
311 CNM
CARLSBAD RADIO
116.8 CNM
Loving
Malaka
.3530
PRIVATE
(Emergency use only)
Teague
CONTINENTAL
3100 — — 20
Jal
Andrews
Carlsbad Caverns
White City
PRIVATE
(Emergency use only)
NEW MEXICO
TEXAS
To Culberson
W 109.1 CXN
To Wink
X 109.5 INK
260 INK
X 109.5
INK
ALTITUDE CONVERSION SCALE
50 10 20 30
15 20 25 30
50 60 70 80 90 100
ost, add like number of ciphers to the figures on both sides of scale.
104°B
(Joins 470) 103°C
280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450 460 470 480
150 160 170 180 190 200 210 220 230 240 250 260
180 190 200 210 220 230 240 250 260 270 280 290 300

NGRADED AT 3 YEAR INTERVALS
ECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10

NOTE: It is requested that users of this chart indicate corrections and additions which come to their attention and notify "THE DIRECTOR, U. S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C."

SCALE 1:1,000,000

GEOREF 12-50

UNCLASSIFIED

ERY HIGH FREQUENCIES (VHF) PRINTED IN BLUE

DANGER AREA

DANGER AREA
OVER 4000' ABOVE TERRAIN

DANGER AREA

DANGER AREA

DANGER AREA

QD

QC

Q

HOLLOMAN
221 A1M

HOLLOMAN AFB
4092 L H 84
272 126.18

CONDRON (ARMY)
3930 — — 69
385 126.18

EL PASO RADIO
114.5 ELP

WALKER AFB
3666 L H 85
GCA SYSTEM
396 125.18
RACON
X-BAND 1-2-1

ROSWELL RADIO
116.3 ROW

WHITE SANDS
4200

CARRIZOZO
5420 — — 33

ALAMOGORDO
4320 — — 29

CREE MEADOWS
7000 — — 50

FULLER RANCH
5000 — — 31

ROSWELL NO 3
3712

ARTESIA
3550 L H

Carrizozo
Capitan
Oscuro
Three Rivers
Tularosa
Escondida
Alamogordo
Cloudcroft
Russia
Velmont
Mescalero
Palo Verde
Glencoe
Hondo
Picacho
Roswell
Blue Water
Encinoso
Mayhill
Dunken
Hope
Pinon
Rio Peñasco
Rio Hondo
Turquoise
Orogrande
Cruces
Organ
Mesquite
Berino
Anthony
Jornada
Ranch
Queen
Cienega
Carlsbad Caverns

CAPITAN MOUNTAINS
SACRAMENTO MOUNTAINS
TULAROSA VALLEY
ORGAN MOUNTAINS
SAN ANDRES MOUNTAINS

SALINAS PK 9040
CARRIZOZO 6732
CAPITAN MOUNTAINS 10205
SIERRA BLANCA 12003
9983
6543
8014
8700
9700±
4566
7105
5301
9012
6970
7278
7444

258°
177°
167°
162°
122°
300
330
270
240
210
180
150
120
090
060
030
000
330
300
270
240
210
180
150
120
090
060
030
000
029°
043°

To El Paso
242 ELP 50

To Hudspeth
Y 109.9 HUP

To Salt Flat
335 SFL

To Culberson

NEW MEXICO
TEXAS

32°

106° (Joins 470)

105°

EJ

FJ

ALTITUDE CONVERSION

Meters 3 5 10 15
Feet 10 20 30 40 50

For conversions above 100 feet, add like number of ci

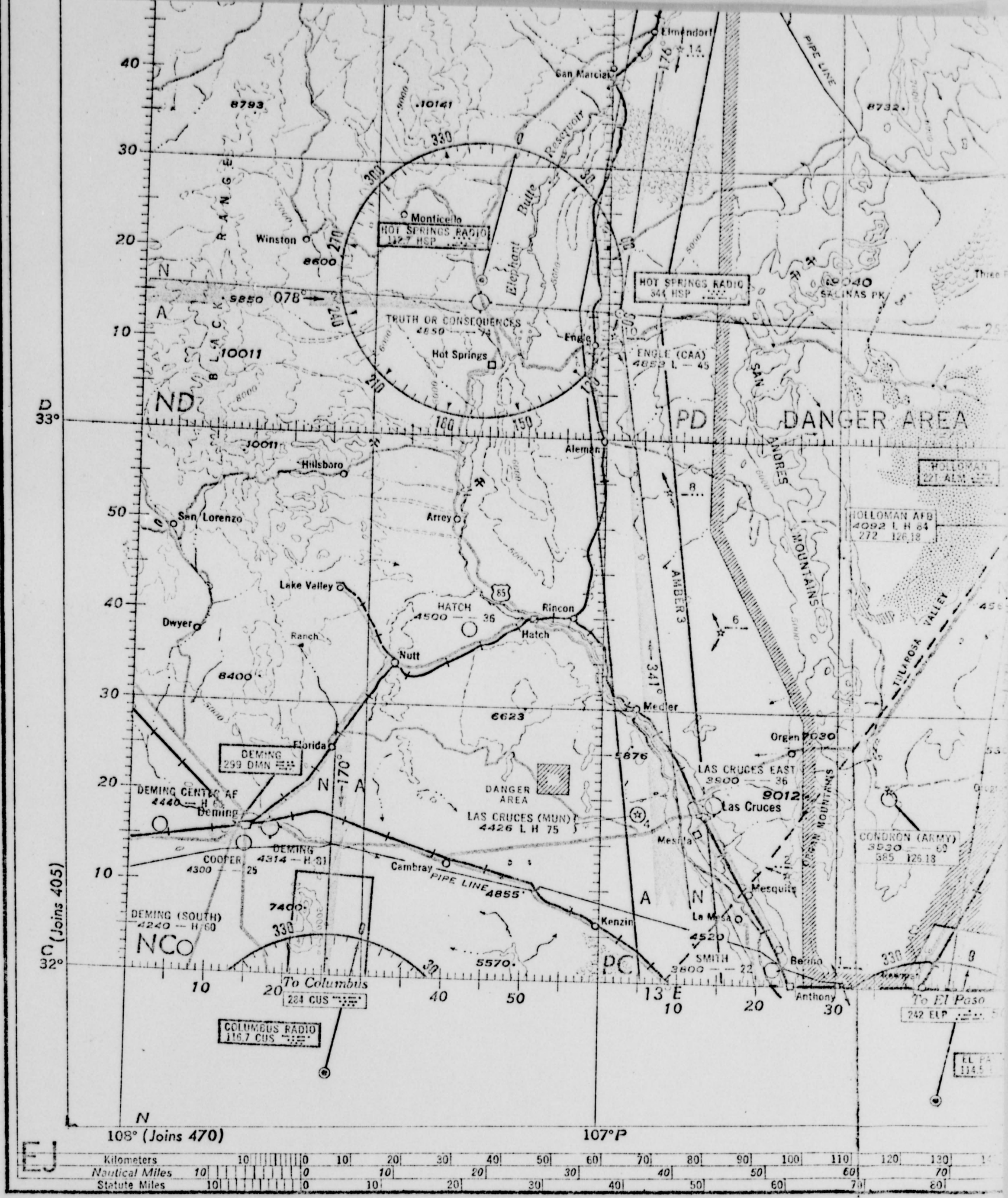
100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290
60 70 80 90 100 110 120 130 140 150 160 170 180

Army
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odetic Survey.

Compiled and printed at Washington, D. C. by the U. S. Coast and Geodetic Survey
under authority of the Secretary of Commerce

FEBRUARY 1945 Revised NOVEMBER 1950 BASE NO 3 R 4

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DECLASSIFIED
DOD



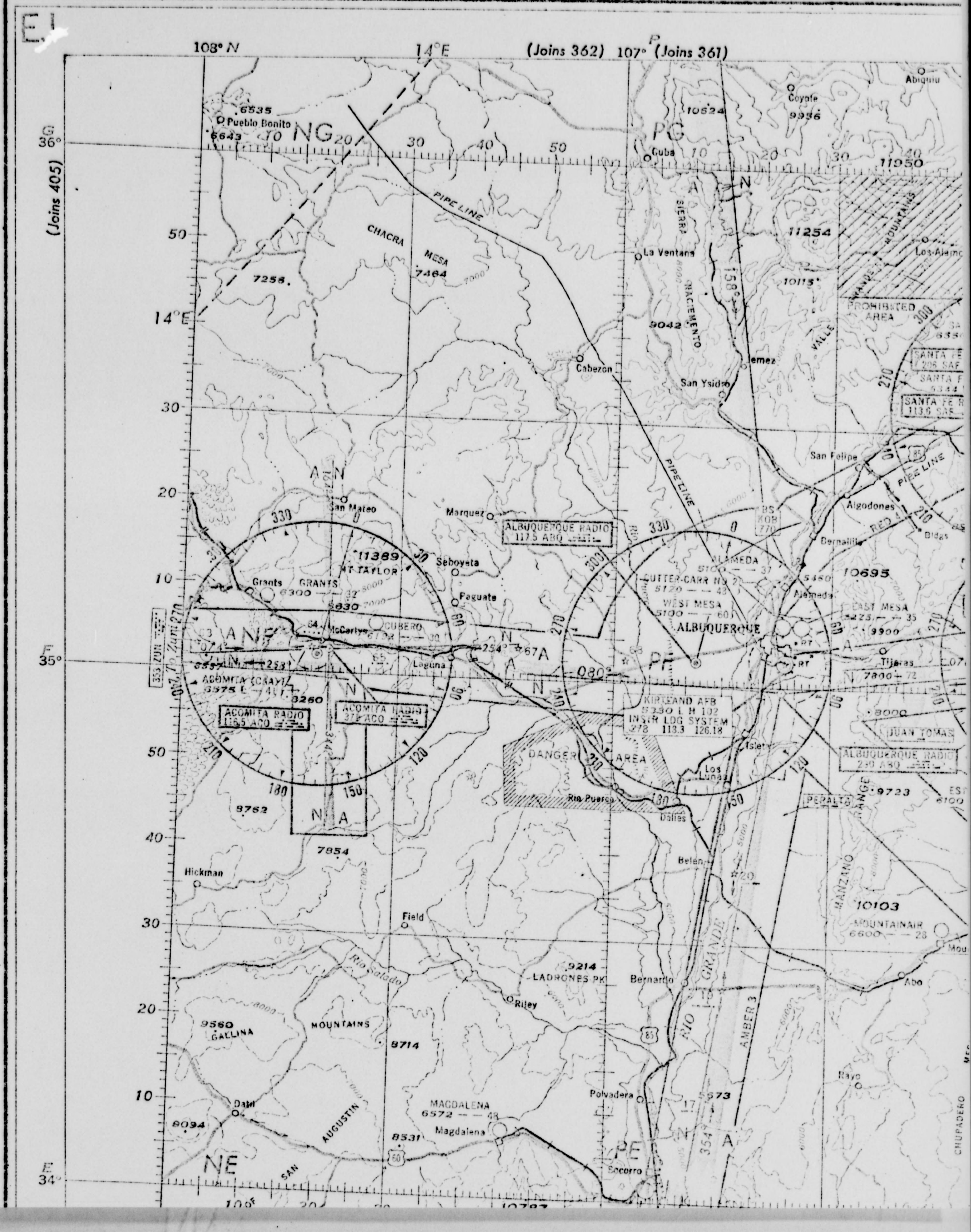
(406) PRICE 25 CENTS

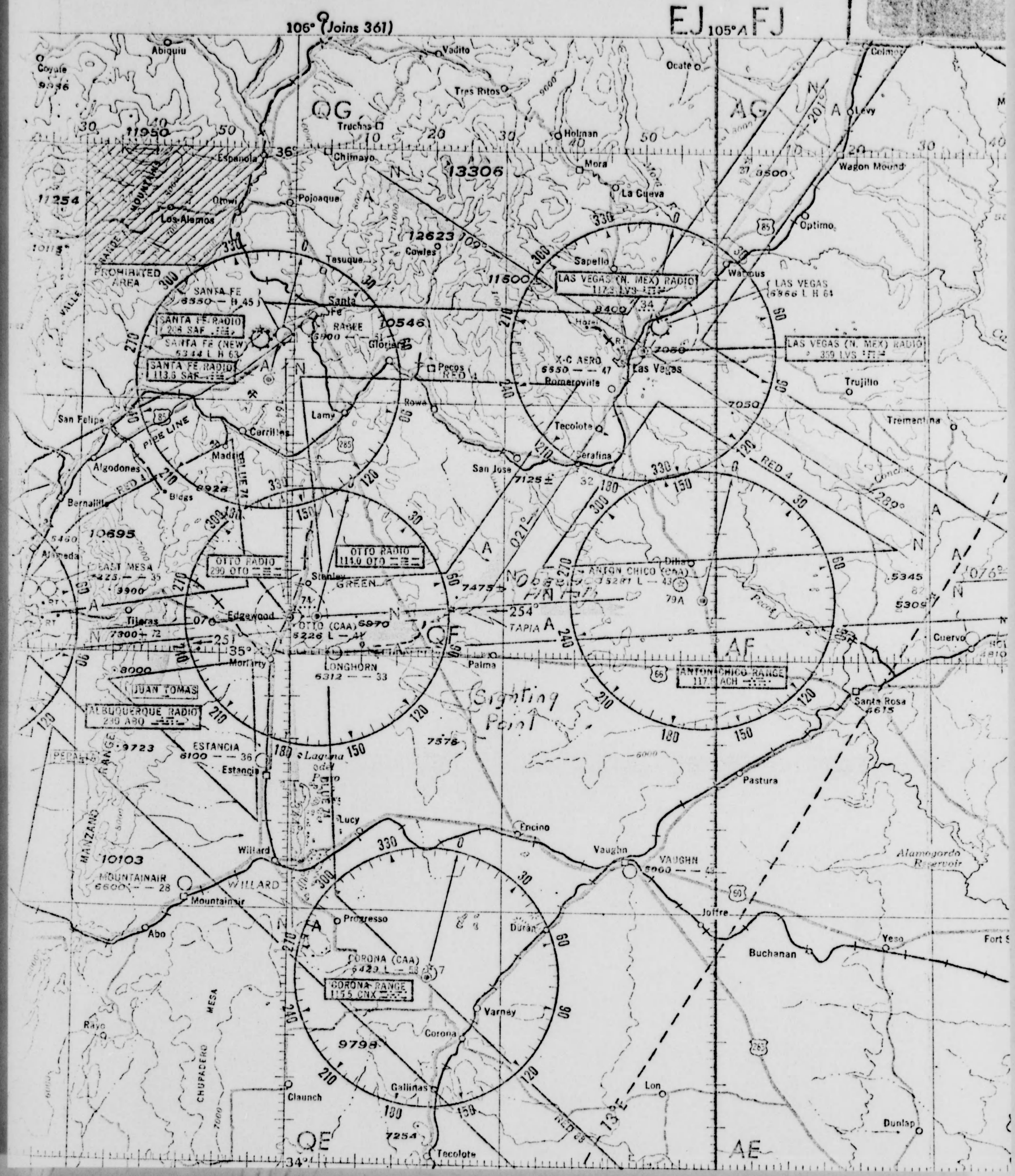
THIRTEENTH EDITION December 10, 1950

Principal Sources: U.S. Geological Survey, U.S. Army Corps of Engineers, U.S. Air Force, U.S. Dept. of Agriculture, Civil Aeronautics Administration, and the U.S. Coast and Geodetic Survey.

(406) ESTACADO PLAIN

ELEVATIONS IN




106° (Joins 361)
EJ
105°
FJ
QG
AG
Abiquiu
Coyote
Vadito
Tres Ritos
Ocate
Colmor
Truchas
Holman
Levy
Chimayo
Mora
Wagon Mound
Espanola
Pojoaque
La Cueva
Otowi
Los Alamos
Optimo
Cowles
Tesuque
Sapello
Watrous
PROHIBITED AREA
SANTA FE 6550 — H 45
LAS VEGAS (N. MEX) RADIO 117.2 LVS
LAS VEGAS 6866 L H 64
Santa Fe
SANTA FE RADIO 206 SAF
SANTA FE (NEW) 6344 L H 63
SANTA FE RADIO 113.6 SAF
Glorieta
Pecos
X-C AERO 5550 — — 47
Romeroville
Las Vegas
LAS VEGAS (N. MEX) RADIO 359 LVS
Trujillo
Rowa
Lamy
San Felipe
Cerrillos
Tecolote
Trementina
Madrid
Serafina
Algodones
San Jose
7125±
Bernalillo
Bidgs
OTTO RADIO 290 OTO
OTTO RADIO 114.0 OTO
Stanley
GREEN
ANTON CHICO (CAA) 5281 L — 43
Dilia
Edgewood
OTTO (CAA) 5970 5226 L — 41
TAPIA
Cuervo
Tijeras
Moriarty
LONGHORN 6312 — — 33
Palma
JUAN TOMAS
ALBUQUERQUE RADIO 280 ABQ
ANTON CHICO RANGE 117.3 ACH
Sighting Point
Santa Rosa 4615
ESTANCIA 6100 — — 36
Estancia
Lucy
Encino
Vaughn
VAUGHN 5000 — — 45
Alamogordo Reservoir
MOUNTAINAIR 6600 — — 28
WILLARD
Mountainair
Progresso
Duran
Joffre
Yeso
Buchanan
CORONA (CAA) 6423 L — 58
CORONA RANGE 115.5 CNX
Varney
Corona
Rayo
Claunch
Gallinas
Lon
Dunlap
Tecolote
QE
AE
34°

RONAUTICAL CHART

Compiled to ICAO Standards
For ICAO number add 2000 to the chart number.

UNCLASSIFIED

(Joins 361) 103°C

104°B

Colmor

Levy

Mills

Yates

Major

Longs Cr

VAR
DALHART RADIO
U 108.3 DHT
Vacc 206

DALHART
3989 — H 90

DALHART AF NO 1
4036 — H 81

Dalhart

Wagon Mound

Roy

Bueyeros

RT

Amistad

SELF
5890 — 20

Solano

Rosebud

Middle Water

Rito Blanco Cr

Centerville

Punta de Agua Cr

Mosquero

Romero

Gallegos

Nara Visa

Trujillo

Bell Ranch

Trigg Ranch

Obar

CANADIAN

Tremen ina

Conchas Reservoir

Conchas Dam

CONCHAS DAM
4240 — — 25

Logan

Adrian

CUERVO

Tucumcari

TUCUMCARI
4063 — H 51

SAN JON
4100 — — 27

Glenrio

MOSER
4100 — — 13

Montoya

Newkirk

San Jon

Cuervo

HOLBROOK
4810 — — 23

TUCUMCARI RADIO
212 TCC

TUCUMCARI RADIO
112.3 TCC

Santa Rosa
4615

Quay

Wheatland

BAR B BRAND
4600 — — 20

Ragland

Grady

Broadview

NEW MEXICO
TEXAS

Summerfield

BENGER
4000 — — 30

Alamogordo Reservoir

FORT SUMNER NO 5
4830 — H 60

Friona

FORT SUMNER
4166 — H 60

Bovina

Yeso

Fort Sumner

Taiban

Melrose

HILLCREST
4244 — — 36

Clovis

Farwell

CLOVIS (MUNI)
4300 — H 100

Roundhouse

Cameo

WARREN
3800 — — 43

Portales

PORTALES
4021 — H 35

Muleshoe

Dunlap

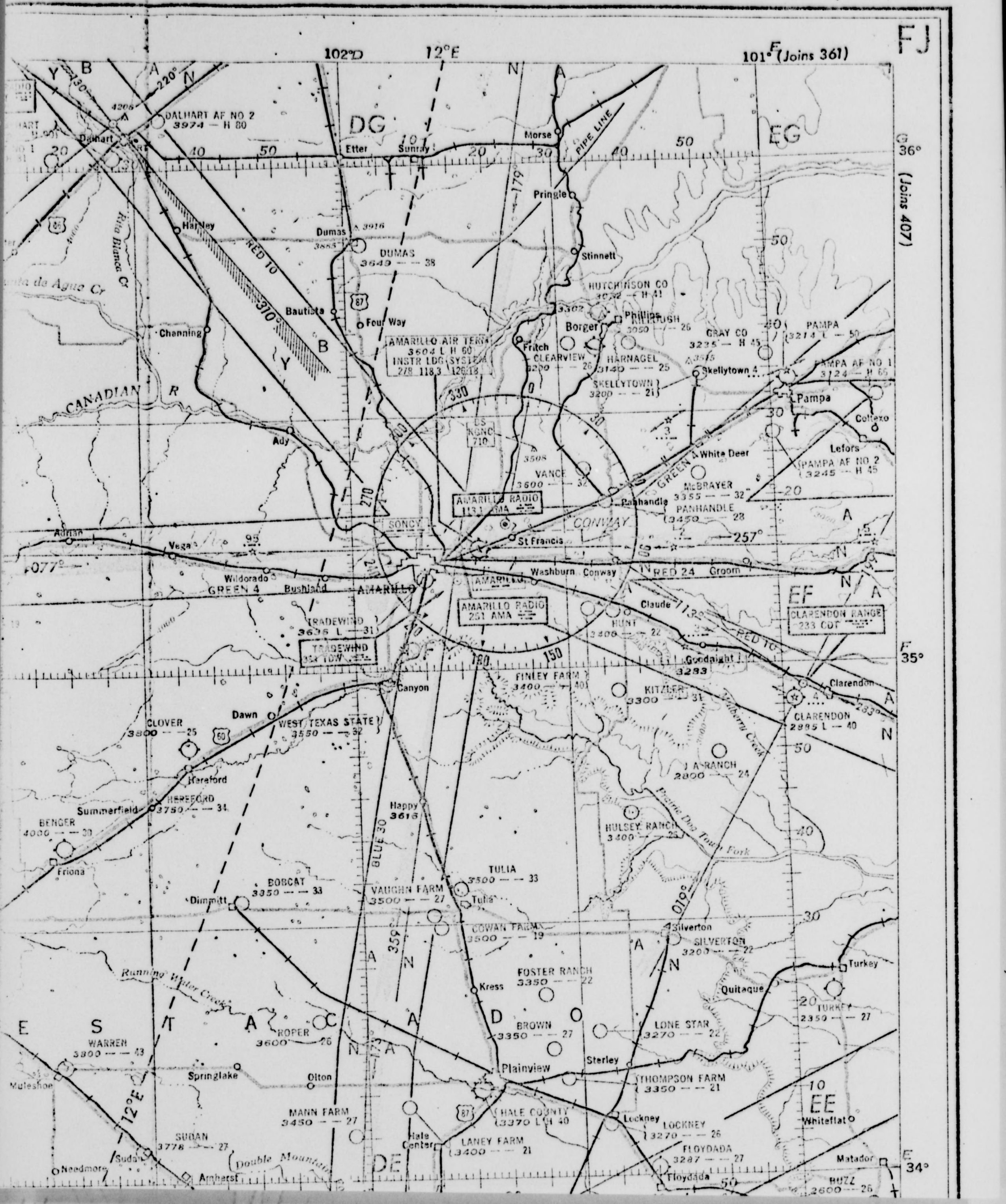
Needmore

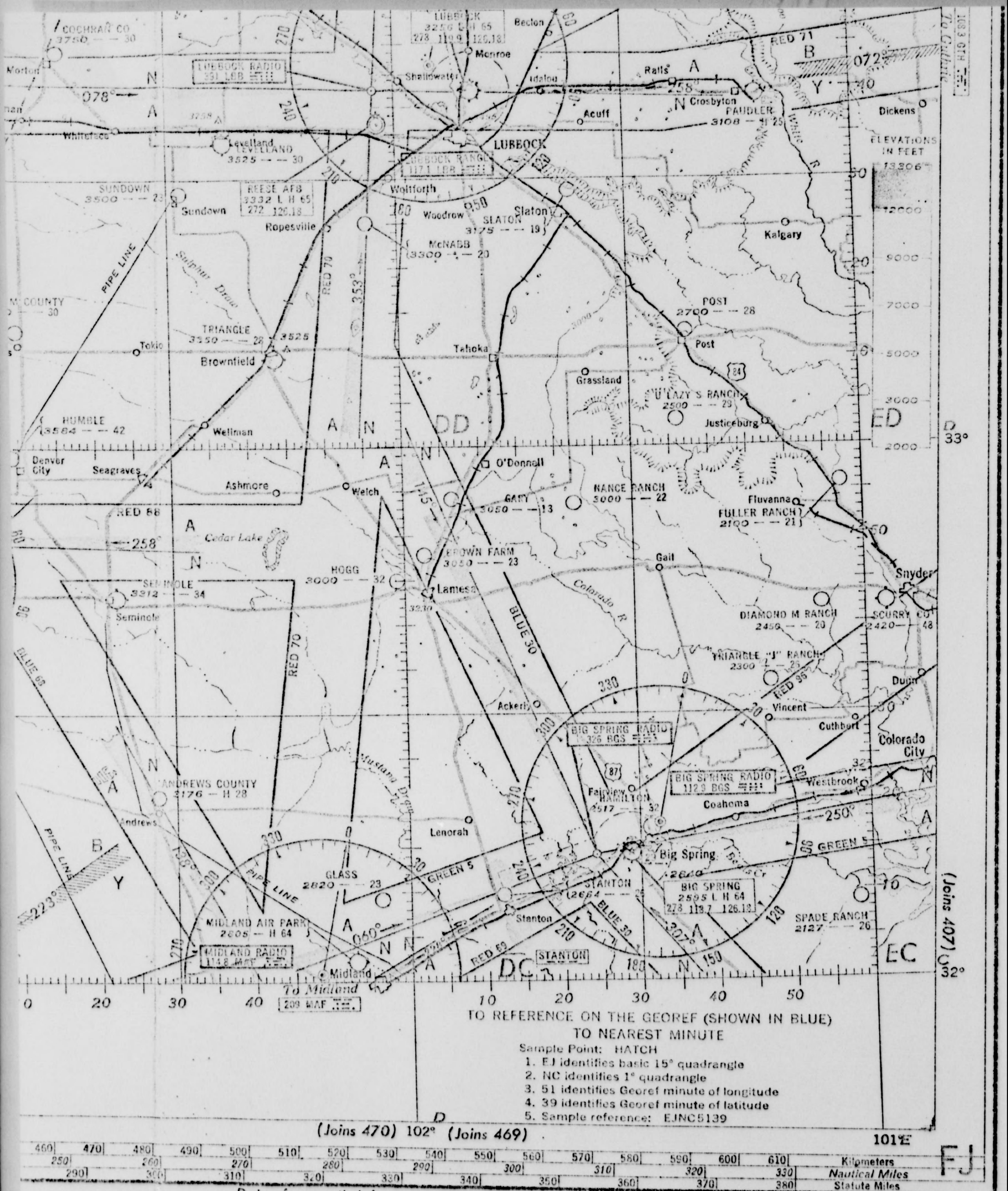
Sudan

Standards
to the chart number.

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

(406)





1:1,000,000

REF 12-50

Date of magnetic information 1947

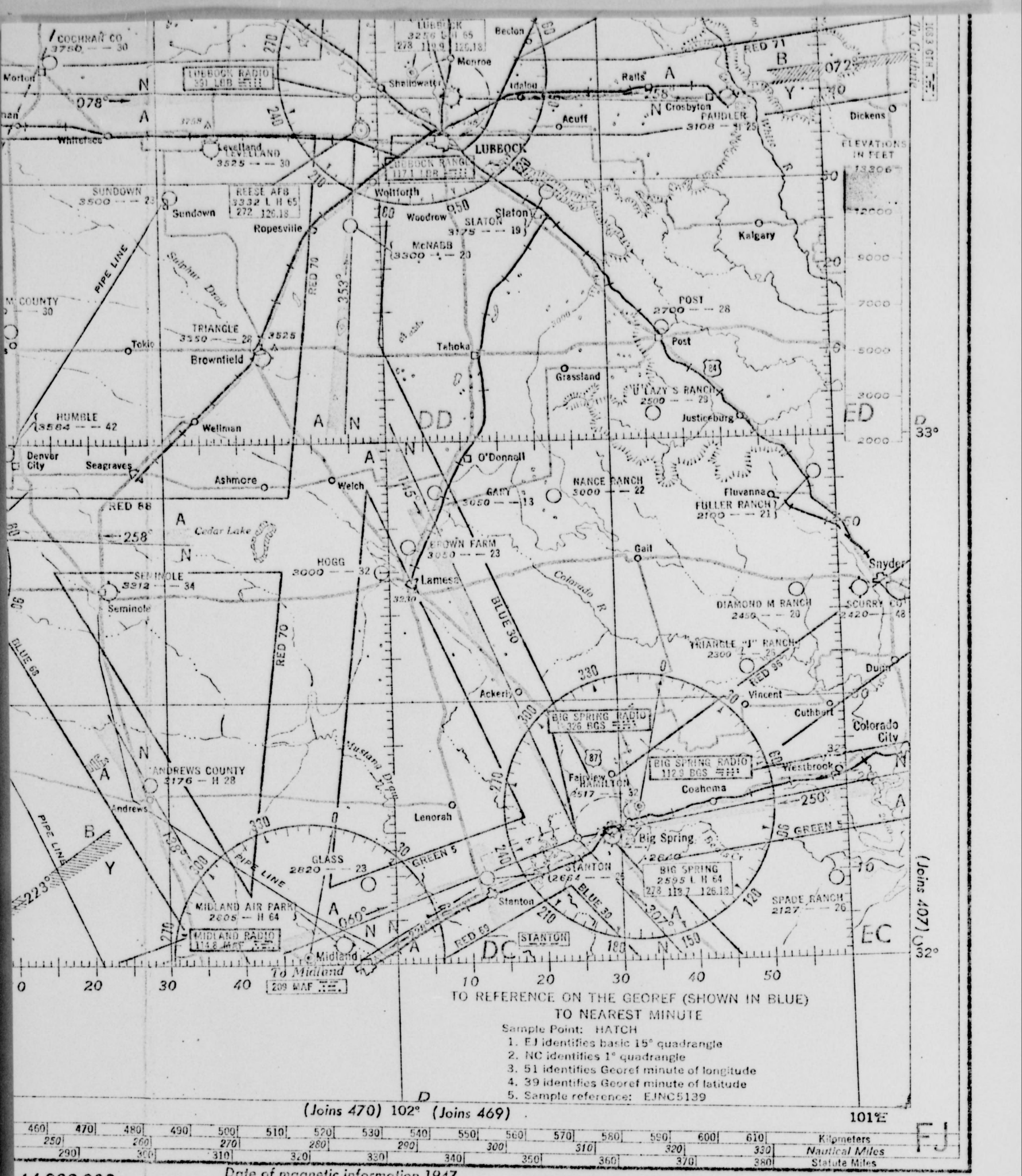
Consult Coast and Geodetic Survey Radio Facility Charts and Civil Aeronautics Administration Airman's Guide for changes in aeronautical information on this chart after *December 10, 1950*

Next scheduled edition, September 1951

ESTACADO PLAIN (406)

UNITED STATES

U.S. AIR FORCE EDITION



1:1,000,000

REF 12-50

Date of magnetic information 1947

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Next scheduled edition, September 1951

ESTACADO PLAIN (406)

UNITED STATES

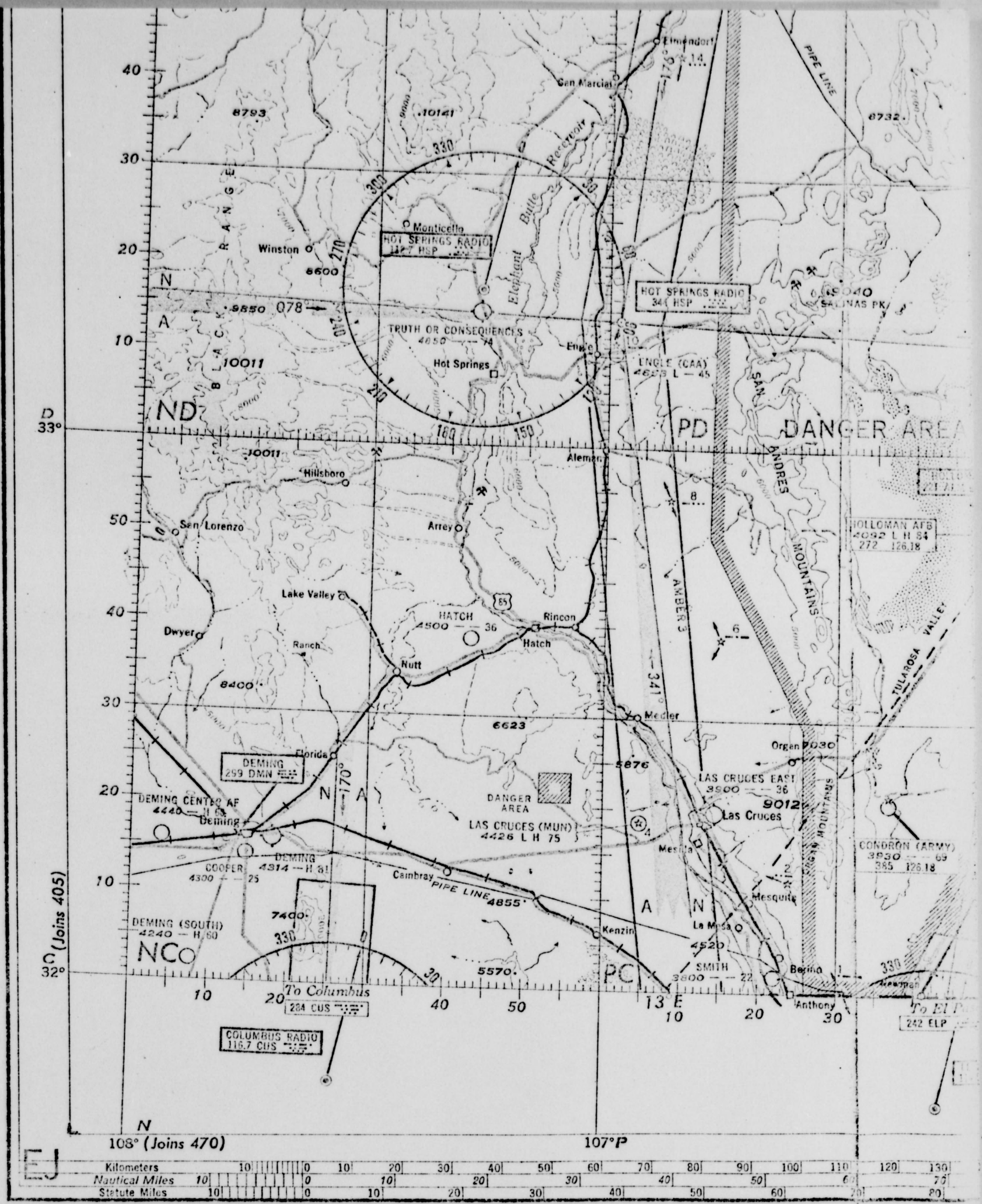
U.S. AIR FORCE EDITION

Kenna
Elkins
ELKINS
FLYING M RANCH
4360 — — 19
FLYING M
Milnesand
RED 71
Acme
Roswell
ROSWELL
3621 — H 56
ROSWELL RADIO
6.3 ROW
WALKER AFB
3666 L H 85
GCA SYSTEM
396 126.18
RACON
X-BAND 1-2-1
ROSWELL RADIO
305 ROW
MOORE Dexter
3450 — — 26
Caprock
.4502
.4505
Tatum
Morton
COCHRAN CO
3750 — — 30
Lehman
Bledsoe
Whiteface
078°
SUNDOWN
3500 — — ?
YOAKUM COUNTY
3650 — — 30
Plains
PIPE LINE
168°
HOBBS AF NO 1
3650 — H 70
HUMBLE
3564 — — 42
ROSWELL NO 3 (ARMY)
3712 — H 70
Lake Arthur
LOVINGTON
3985 — — 36
Denver City
Seagraves
ARTESIA
3550 L H 69
Artesia
Maljamar
Hope
Rio Penasco
Lake McMillan
BLUE 74
.3765
3630±.
.3571
.3578
.3630
.3530
HOBBS AF NO 4
3777 — H 70
RED 88
RED 91
HOBBS RADIO
293 HOB
Humble City
AIR BASE CITY
3707 L H 88
LEA COUNTY
3659 L H 54
HOBBS RADIO
114.3 HOB
Hobbs
Eunice
Teague
Jal
CONTINENTAL
3100 — — 20
Seminole
Andrews
BLUE 65
BLUE 64
CARLSBAD
3276 L H 66
CARLSBAD RADIO
311 CNM
CARLSBAD RADIO
116.8 CNM
Carlsbad
Loving
Malaga
White City
Carlsbad Caverns
PRIVATE
(Emergency use only)
PRIVATE
(Emergency use only)
043°
223°
NEW MEXICO
TEXAS
To Culberson
W 109.1 CXN
To Wink
X 109.5 INK
To Wink
260 INK
To Wink
X 109.5 INK
ALTITUDE CONVERSION SCALE
00 feet, add like number of ciphers to the figures on both sides of scale.
104°B
(Joins 470) 103°C
DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
DOD DIR 5200.10
NOTE: It is requested that users of this chart indicate corrections and additions which come to their attention and notify "THE DIRECTOR, U. S. COAST AND GEODETIC SURVEY, WASHINGTON 25, D. C."
SCALE 1:1,000,000
GLOREF 12-50
UNCLASSIFIED
ERY HIGH FREQUENCIES (VHF) PRINTED IN BLUE

PIPE LINE
Coyote
5835
8656
Carrizozo
8732
CARRIZOZO
5420 — 33
Entinoso
10205
CAPITAN MOUNTAINS
Capitan
Blue Water
Oscuro
8983
6543
GREE MEADOWS
7000 — 51
12003
SIERRA BLANCA
Glencoe
Hondo
Picacho
Roswell
ROSWELL RADIO
116.3 ROW
Rio Hondo
WALKER AFB
3666 L H 85
GCA SYSTEM
396 126.18
RACON
X-BAND 1 2-1
9040
SALINAS PK
Three Rivers
Palo Verde
FULLER RANCH
5000 — — 31
8014
258°
Mescalero
6700
DANGER AREA
Tularosa
QD
ALAMOGORDO
4320 — 29
33°
ROSWELL NO 3
3712 — H
ROLLOMAN
221 AFM
Cloudcroft
ANDRES MOUNTAINS
HOLLOMAN AFB
4092 L H 84
272 126.18
Alamogordo
WHITE SANDS
4200
Russia
9700±
SACRAMENTO MOUNTAINS
Mayhill
Dunken
Hope
ARTESIA
3550 L H
022°
Valmont
4566
TULAROSA VALLEY
7105
Rio Penasco
Escondida
177°
DANGER AREA
OVER 4000' ABOVE TERRAIN
Pinon
RED 71
Organ 7030
5301
Tucumcari
CFS EAST
— 36
9012
Cruces
Oropanca
CONDRON (ARMY)
3930 — — 69
385 126.18
ORGAN MOUNTAINS
DANGER AREA
162°
Ranch
Queen
Mesquite
Carlsbad Cav
Berino
330
Newman
Cledega
5970
7278
7444
043°
NEW MEXICO
TEXAS
32°
Anthony
To El Paso
242 ELP
To Hudspeth
Y 109.9 HUP
To Salt Flat
335 SFL
To Culbers
EL PASO RADIO
114.5 ELP
ALTITUDE CONVERS
3 5 Meters 10 15
10 20 Feet 30 40 50
For conversions above 100 feet, add like numb
106° (Joins 470)
EJ 105° A FJ
DOWNGRADED AT
DECLASSIFIED
100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290
50 60 70 80 90 100 110 120 130 140 150 160 170 180

J. S. Army
griculture, Civil
Geodetic Survey.

Compiled and printed at Washington, D. C. by the U. S. Coast and Geodetic Survey
under authority of the Secretary of Commerce
FEBRUARY 1945 Revised NOVEMBER 1950 BASE NO 3 R 4



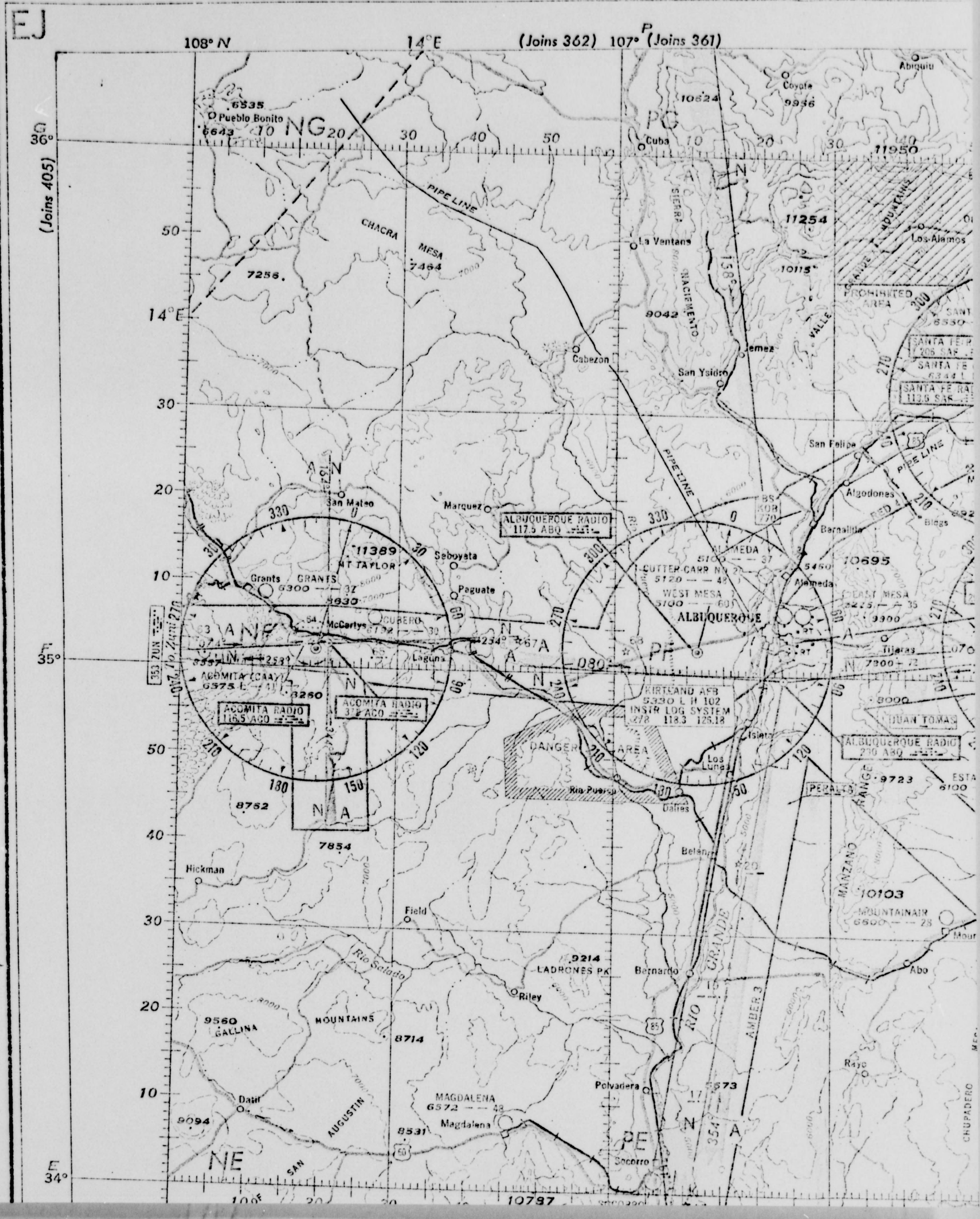
(406) PRICE 25 CENTS

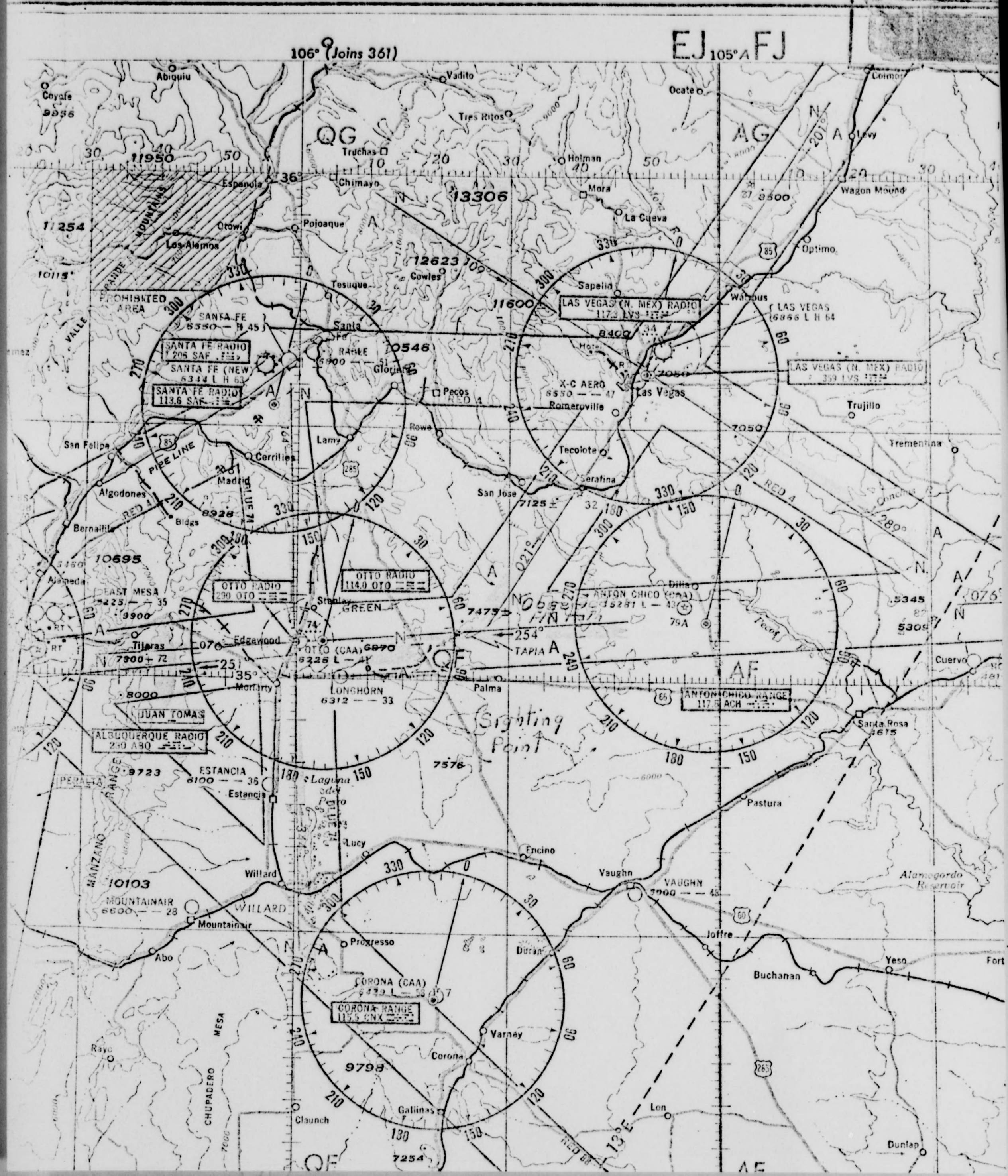
THIRTEENTH EDITION December 10, 1950

Principal Sources: U. S. Geological Survey, U. S. Army Corps of Engineers, U. S. Air Force, U. S. Dept. of Agriculture, Civil Aeronautics Administration, and the U. S. Coast and Geodetic Survey.

(406) ESTACADO PLAIN

ELEVATIONS IN F




106° (Joins 361)
EJ
105°
FJ
QG
AG
Abiquiu
Coyote
9956
11950
Vadito
Tres Ritos
Ocate
Colmor
Truchas
Holman
Mora
La Cueva
Wagon Mound
Chimayo
Espanola
36°
13306
11254
Pojoaque
Otowi
Los Alamos
Optimo
85
12623
10115
Cowles
Tesuque
Sapello
PROHIBITED AREA
SANTA FE
6350 — — 45
LAS VEGAS (N. MEX) RADIO
117.3 LVS
Wagous
LAS VEGAS
6866 L H 64
SANTA FE RADIO
1206 SAF
SANTA FE (NEW)
6344 L H 63
SANTA FE RADIO
113.6 SAF
Santa Fe
RAGLE
6900 — — 51
Glorieta
10546
X-C AERO
6550 — — 47
Romeroville
Las Vegas
LAS VEGAS (N. MEX) RADIO
359 LVS
Trujillo
Pecos
RED 1
Rowe
Lamy
San Felipe
Cerrillos
Tecolote
Trementina
PIPE LINE
Madrid
Algodones
Serafina
San Jose
7125±
RED 4
Bernalillo
Bldgs
8928
10695
OTTO RADIO
290 OTO
OTTO RADIO
114.0 OTO
Stanley
GREEN
ANTON CHICO (CAA)
6528 L — 43
Dilia
Alameda
EAST MESA
5225 — — 35
7475±
254°
TAPIA
Edgewood
Tijeras
7900+ 72
OTTO (CAA)
6870
6226 L —
Moriarty
LONGHORN
6312 — — 33
Palma
JUAN TOMAS
ALBUQUERQUE RADIO
230 ABQ
ANTON CHICO RANGE
117.6 ACH
Santa Rosa
4615
Sighting Point
7576
ESTANCIA
6100 — — 36
Estancia
Pastura
Lucy
Encino
Vaughn
VAUGHN
3000 — — 45
Alamogordo Reservoir
Willard
10103
MOUNTAINAIR
6500 — — 28
WILLARD
Mountainair
Joffre
Progresso
Duran
Abo
Yeso
Buchanan
CORONA (CAA)
6429 L — 58
CORONA RANGE
113.5 CNX
Varney
Corona
9798
Raye
Claunch
Gallinas
Lon
Dunlap
7254
MESA
CHUPADERO

NAUTICAL CHART

Compiled to ICAO Standards
For ICAO number add 2000 to the chart number.

UNCLASSIFIED

(Joins 361) 103°C

104°B

VAR
DALHART RADIO
U 108.3 DHT
Voice 256

DALHART
3989 — H 901

DALHART AF NO 1
4096 — H 81

DALHART AF NO
3974 — H

Yates
Mills
Bueyeros
RT
Roy
SELF
5899 — 20
Solana
Mosquero
Amistad
Rosebud
Centerville
Middle Water
Punta de Agua Cr
Rito Blanca Cr
Hartley
Romero
Channing
Gallegos
Nara Visa
Canadian R
Bell Ranch
Trigg Ranch
Obar
Trementina
Conchas Reservoir
Conchas Dam
CONCHAS DAM
4240 — 25
Logan
CUERVO
TUCUMCARI
4063 — H 51
Tucumcari
SAN JON
4100 — 27
Glenrio
Adrian
Vega
MOSER
4100 — 19
Montoya
Newkirk
Cuervo
HOLDROOK
4810 — 23
TUCUMCARI RADIO
212 TCC
TUCUMCARI RADIO
112.3 TCC
San Jon
Quay
Wheatland
BAR B BRAND
4600 — 20
Ragland
Grady
Broadview
NEW MEXICO
TEXAS
CLOVER
3800 — 25
Hereford
HEREFORD
3750 — 34
Summerfield
BENGER
4000 — 30
Friona
Alamogordo Reservoir
FORT SUMNER NO 5
4830 — H 60
FORT SUMNER
4166 — H 60
Fort Sumner
Taiban
Melrose
Bovina
Dimmitt
HILLCREST
4244 — 35
CLOVIS (MUN)
4300 — H 100
Clovis
Farwell
Roundhouse
Cameo
Portales
PORTALES
4021 — H 35
WARREN
3800 — 43
Muleshoe
Springlake
SUDAN
3778 — 27
Sudan
Needmore
Amherst
Dunlap
Yeso
Rosa
Runnels Water Creek

CG
CF
BG
BF
BE
CE
N A
E S T

12°E

umber.

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

(406)

102°D 12°E 101°E (Joins 361)

FJ

DG EG

Morse PIPE LINE Etter Sunray Pringle Stinnett

DALHART AF NO 2
3974 — H 80

Hartley Dumas DUMAS 3649 — — 38 RED 10 Rito Blanco Cr

Bautista Four Way Channing

AMARILLO AIR TERM
3604 L H 60
INSTR LDG SYSTEM
278 118.3 126.18

HUTCHINSON CO
3052 — H 41

Phillips RILEY LOUGH 3050 — — 26 Borger Fritch CLEARVIEW 3200 — — 26 HARNAGEL 3140 — — 25 SKELLYTOWN 3200 — — 21

GRAY CO
3235 — H 45

PAMPA
(3214 L — 50

Skellytown PAMPA AF NO 1
3124 — H 66

Pampa Lefors Colfexo

VADIAN R

Ady

BS
KGNC
710

VANCE
3600 — — 32

White Deer

PAMPA AF NO 2
(3245 — H 45

McBRAYER
3355 — — 32

AMARILLO RADIO
113.1 AMA

Panhandle PANHANDLE
(3450 — — 28

SONCY

St Francis

Vega

Wildorado GREEN 4 Bushland AMARILLO

Washburn Conway RED 24 Groom

AMARILLO RADIO
251 AMA

TRADEWIND
3636 L — 31

TRADEWIND
333 TDW

Claude HUNT 3400 — — 22 RED 10

CLARENDON RANGE
233 CDT

Goodnight 3283

FINLEY FARM
3400 — — 40

Canyon

KITZLER
3300 — — 31

Clarendon CLARENDON
2885 L — 40

Dawn CLOVER 3800 — — 25 WEST TEXAS STATE 3550 — — 32

J A RANCH
2300 — — 24

Hereford HEREFORD
3750 — — 34

Summerfield

Happy
3616

HULSEY RANCH
3400 — — 28

Prairie Dog Town Fork

TULIA
3500 — — 33

BOBCAT
3850 — — 33

Dimmitt VAUGHN FARM 3500 — — 27 Tulia

COWAN FARM
3500 — — 19

Silverton SILVERTON 3200 — — 22

Turkey

FOSTER RANCH
3350 — — 22

Kress Quitaque TURKEY 2350 — — 27

Running Water Creek

WARREN
3300 — — 43

ROPER
3600 — — 26

BROWN
3350 — — 27

LONE STAR
3270 — — 22

Springlake Olton Plainview Sterley

THOMPSON FARM
3350 — — 21

MANN FARM
3450 — — 27

HALE COUNTY
3370 L H 40

Lockney LOCKNEY
3270 — — 26

Whiteflat

SUDAN
3778 — — 27

Hale Center LANEY FARM 3400 — — 21

FLOYDADA
3287 — — 27

Matador

Sudan Needmore Amherst Floydada

Double Mountain

BUZZ
2600 — — 26

12°E

BLUE 30

RED 24

CONWAY

CANADIAN

SANTA FE

PANHANDLE

GREEN

RED TO

35°

34°

ESTACADO PLAIN (406)

UNITED STATES

U.S. AIR FORCE EDITION

1:1,000,000

REF 12-50

Date of magnetic information 1947

Consult Coast and Geodetic Survey Radio Facility Charts and Civil Aeronautics Administration Airman's Guide for changes in aeronautical information on this chart after *December 10, 1950*

Next scheduled edition, September 1951

TO REFERENCE ON THE GEOREF (SHOWN IN BLUE) TO NEAREST MINUTE

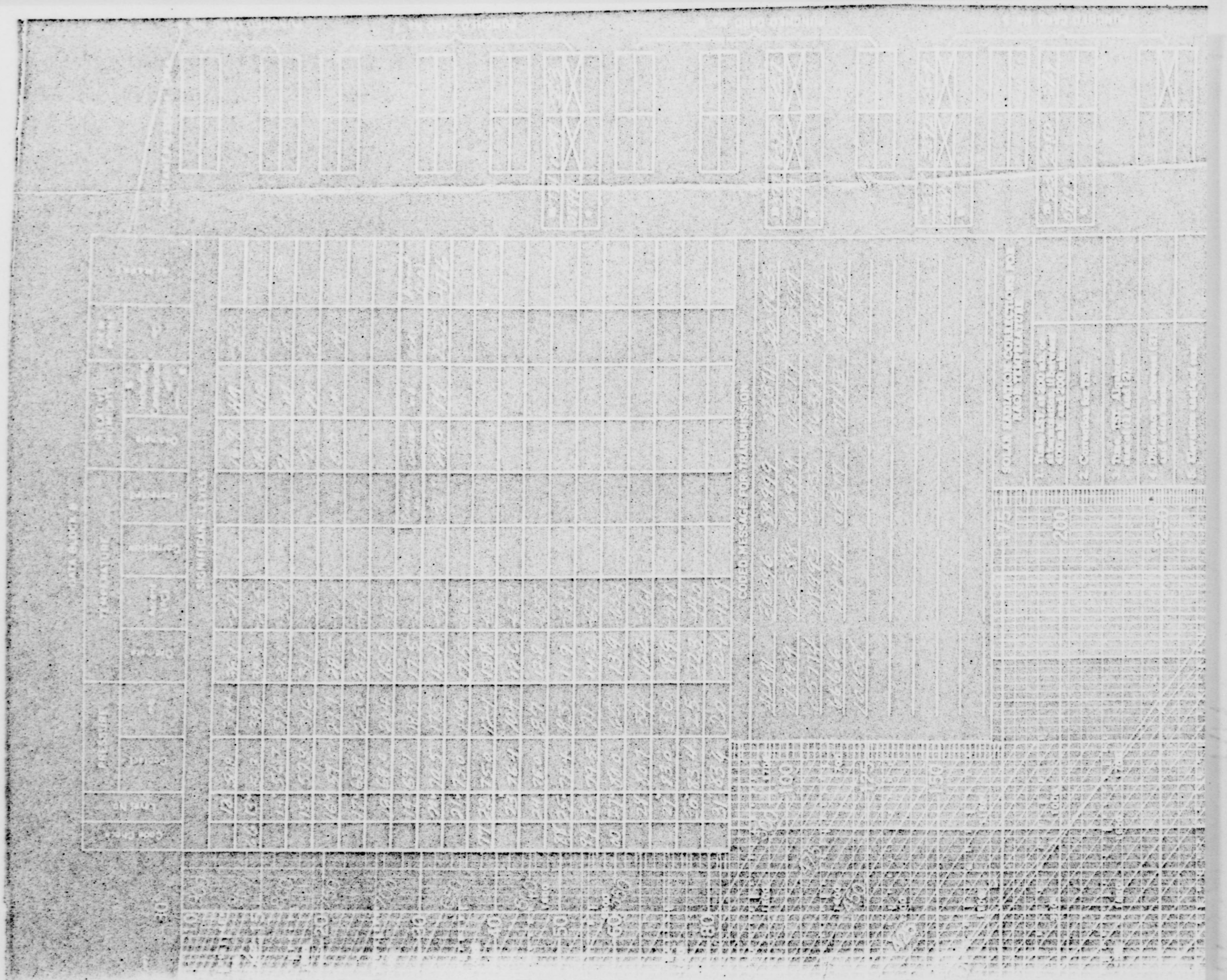
Sample Point: HATCH

1. EJ identifies basic 15° quadrangle
2. NC identifies 1° quadrangle
3. 51 identifies Georef minute of longitude
4. 39 identifies Georef minute of latitude
5. Sample reference: EJNC5139

(Joins 470) 102° (Joins 469) 101° (Joins 407)

460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	Kilometers
250		260		270		280		290		300		310		320	330	Nautical Miles
290		300		310		320		330		340		350		360	370	380	Statute Miles

23022



ADIABATIC CHART

WBAN 31B

Mb

0

10

20

30

40

50

60

80

100

125

150

175

200

225

250