

PROJECT 10073 RECORD CARD

1. DATE 5 January 1956		2. LOCATION Indianapolis, Indiana		12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical Canopus ☒ Probably Astronomical ☐ Possibly Astronomical ☐ Other _____ ☐ Insufficient Data for Evaluation ☐ Unknown	
3. DATE-TIME GROUP Local 1930 GMT 06/0030Z		4. TYPE OF OBSERVATION ☐ Ground-Visual ☐ Ground-Radar ☒ Air-Visual ☐ Air-Intercept Radar			
5. PHOTOS ☐ Yes ☐ No		6. SOURCE Civilian			
7. LENGTH OF OBSERVATION 5 - 10 minutes		8. NUMBER OF OBJECTS one		9. COURSE	
10. BRIEF SUMMARY OF SIGHTING See case file.				11. COMMENTS Probably the star Canopus which was just below the horizon. Atmospheric refraction probably brought it into view distorted.	

OFFICIAL FILE COPY
4E

AFCIN-4E /Maj Friend/vw/69216

UFO Sighting (5 January 1956)

25 APR 1961

The ~~XXXXXXXXXX~~, Inc.
ATTN: Mr. ~~XXXXXXXXXX~~
Troy, Ohio

Dear Mr. Shurtle

The unidentified flying object which you sighted 5 January 1956 was probably a mirage of the star Canopus, the second brightest star in our heavens. The star was in a direction which coincides with the direction you reported for the object, and just below the horizon.

It is understandable that even trained individuals, such as you, are startled when they see an ordinary object under unusual conditions, for this has happened to experienced and highly qualified scientists. No less an authority than Dr. Donald H. Menzel, Director of the Harvard Observatory, was for a time startled by an experience with the star Sirius, which was similar to yours. Dr. Menzel was flying from the North Pole to Point Barrow when suddenly he saw an object pop over the horizon and buzz his aircraft twice. The object then stopped and flew along parallel to his flight path at a distance of about 300 feet. He described the object as flashing red and green lights with something that looked like a propeller on top. It was only by subsequent analysis that Dr. Menzel was able to determine that the object was really a mirage of Sirius. The star was actually below the horizon but the green bending of light by the atmosphere known as refraction had brought it into view. Distortion and diffusion caused by alternate layers of air of different temperatures had added the flashing touches.

The case file does not include the weather on the date of your sighting; therefore, it is impossible at this time to tell if weather phenomena, such as a temperature inversion, were contributing factors. However, in most cases of this type atmospheric phenomena are often the real cause of the misidentification. Action has been initiated to obtain the weather data for the date and location of your sighting.

Your interest in this matter is greatly appreciated, and we will inform you if any new conclusions result from our study of the weather data.

Sincerely

Philip G. Evans
PHILIP G. EVANS
Colonel, USAF 25 April 61
Deputy for Science and Components

COORDINATION: AFCIN-4E

Robert J. Friend
Maj Robert J. Friend

DATE

29 April 61

DATA PROCESSING DIVISION
CLIMATIC CENTER, USAF
Air Weather Service (MATS)
Asheville, North Carolina

REPLY TO
ATTN OF: CCDPD

SUBJECT: Copy of Selected Adiabatic Charts

24 April 1961

TO: Aerospace Technical Intelligence Center
ATTN: AFCIN 4E2X
Wright-Patterson AFB, Ohio

1. Reference: Telephone request 21 April 1961.
2. We are inclosing photo copies of Adiabatic Charts for 4 through 6 January 1956 from Wright-Patterson Air Force Base and Chanute Air Force Base.
3. These two stations are the nearest on either side of Indianapolis, Indiana, taking radiosonde observations in January 1956. Peoria did not begin raobs until 12 September 1956 and Joliet discontinued in 1953.

FOR THE DIRECTOR

Pallas L. Tye, Jr.
PALLAS L. TYE, JR.
Captain, USAF
Administrative Officer

Atch
Adiabatic Charts as noted above

TELEPHONE 21266



THOSE GUMMING SPECIALISTS

THE BROWN-BRIDGE MILLS, INC., TROY, OHIO

THIS CORRESPONDENCE FROM
ST. LOUIS OFFICE
4378 LINDELL BLVD., ST. LOUIS 8, MO.
PHONE: TAYLOR 1-4942
Franklin

Dear Mr. ~~██████████~~,

Regarding the unidentified object we saw returning from St. Louis to Troy.

The flight was made on January 5, 1954. I first noticed this flashing light while we were just north of Terre Haute, Indiana. It flashed with a brilliant white light about ten times in about ten seconds time. It was approximately south east of Terre Haute.

The next time I saw it we were over the north of Indianapolis. The light was south west or a little west of south of Indianapolis.

Both times it flashed
about ten times and lasted
for about ten seconds.

The flash was a brilliant
white. It looked like it
might have been in a reflector
as I noticed some sort of
reflected light around the
light.

The flash lit up the
sky. I believe the weather
reported the overcast to
be about 20,000 feet. There
was a very slight haze
in the horizon.

It was difficult to
determine just how far
in the horizon the flash
came from. It did appear
to be off the ground. It
did not seem to be moving
at any time.

The flash reminded me of
a strobe light used in photography.
It had a halo effect right next to
the light. Something like looking
into a light with a highly polished
reflector.

TELEPHONE 21266



THOSE GUMMING SPECIALISTS

THE BROWN-BRIDGE MILLS, INC., TROY, OHIO

THIS CORRESPONDENCE FROM
ST. LOUIS OFFICE
4378 LINDELL BLVD., ST. LOUIS 8, MO.
PHONE: TAYLOR 1-4942

Franklin

2.

N
↑

→

VANDALA

→

INDIANAPOLIS

TERRE HAUTE

Flash somewhere
alone in here!

↗

ST. LOUIS

①

I've tried to show on this map about where the flash appeared.

The time we saw it over Indianapolis we asked the radio station what it was. They were unable to tell us but said they had noticed it several days before.

An airline pilot who was out side of Chicago reported to me that he saw a flash in the same direction.

I hope this description
is clear. If there are any
further questions let me
know.

I'd like to hear more
about this if possible.

Sincerely,



6/00307
Multi
33
OFFICE OF


THE BROWN-BRIDGE MILLS, INC.

TROY, OHIO

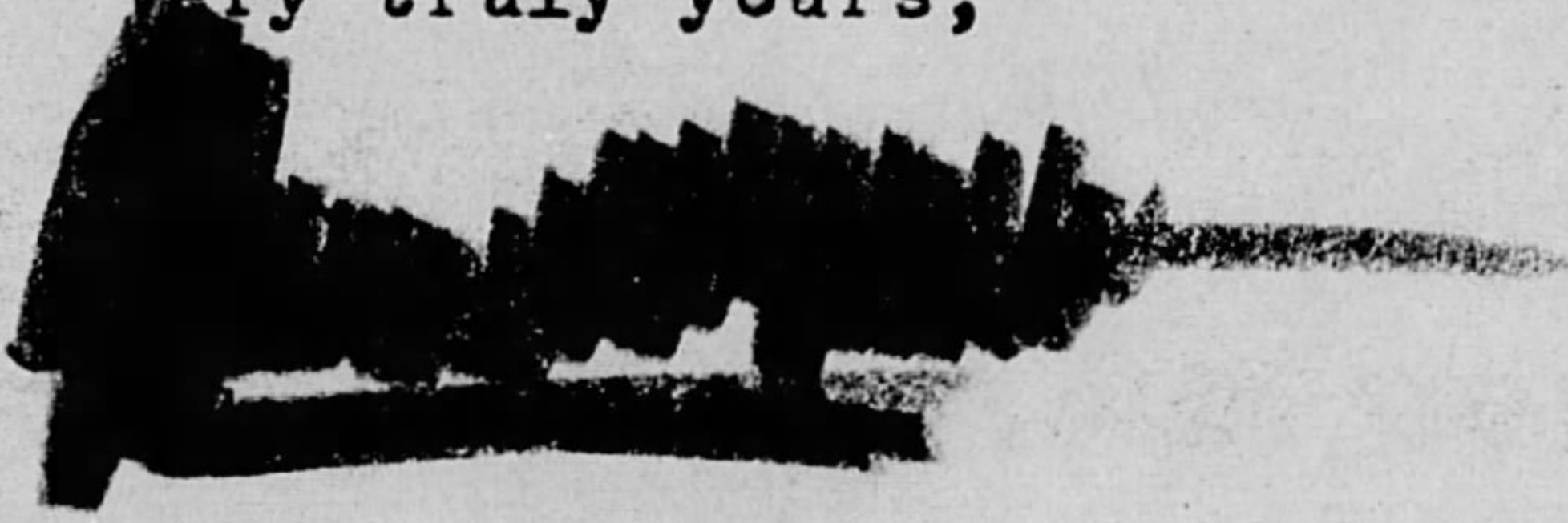
February 9, 1956

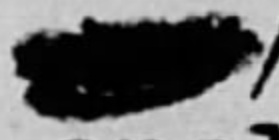
Wallace W. Elwood
1st Lt., USAF, Ass't Adjutant
Air Technical Intelligence Center
Wright-Patterson Air Force Base
Ohio

Dear Lieutenant Elwood:

Enclosed are the forms you sent me filled out as
intelligently as I could do so.

If you come to any conclusion on this I wish you
would let me know.

Very truly yours,


/g
encl

THE BROWN-BRIDGE MILLS, INC.

TROY, OHIO

OFFICE OF

February 13, 1956

Wallace W. Elwood
1st Lt., USAF, Ass't Adjutant
Air Technical Intelligence Center
Wright-Patterson Air Force Base
Ohio

Dear Lieutenant Elwood:

The following is a statement of my passenger about
the light we saw flying from St. Louis to Dayton
on January 5th.

You might attach this to my own report.

Very truly yours,

encl

*Report, unidentified object
seen by person. No flight photos taken*

02/12/56

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

This questionnaire has been prepared so that you can give the U. S. Air Force as much information as possible concerning the unidentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will be used for research purposes, and will be regarded as confidential material. Your name will not be used in connection with any statements, conclusions, or publications without your permission. We request this personal information so that, if it is deemed necessary, we may contact you for further details.

1. When did you see the object?

5 Jan. 1956
Day Month Year

2. Time of day: About 19 30
Hour Minutes

(Circle One): A.M. or P.M.

3. Time zone:

(Circle One): a. Eastern
b. Central
c. Mountain
d. Pacific
e. Other _____

(Circle One): a. Daylight Saving
b. Standard

4. Where were you when you saw the object?

Indianapolis Indiana
City or Town State or Country
Nearest Postal Address
Additional remarks: Between Terre Haute and Indianapolis about Clayton
Marker on airway west of Indianapolis

5. Estimate how long you saw the object. _____ 5 to 10 _____
Hours Minutes Seconds

5.1 Circle one of the following to indicate how certain you are of your answer to Question 5.

a. Certain
b. Fairly certain
c. Not very sure
d. Just a guess

6. What was the condition of the sky?

(Circle One): a. Bright daylight
b. Dull daylight
c. Bright twilight
d. Just a trace of daylight
e. No trace of daylight
f. Don't remember

7. IF you saw the object during DAYLIGHT, TWILIGHT, or DAWN, where was the SUN located as you looked at the object?

(Circle One): a. In front of you
b. In back of you
c. To your right
d. To your left
e. Overhead
f. Don't remember

8. IF you saw the object, at NIGHT, TWILIGHT, or DAWN, what did you notice concerning the STARS and MOON?

8.1 STARS (Circle One):

- a. None
 b. A few
 c. Many
 d. Don't remember

8.2 MOON (Circle One):

- a. Bright moonlight
 b. Dull moonlight
 c. No moonlight — pitch dark
 d. Don't remember

9. Was the object brighter than the background of the sky?

(Circle One):

a. Yes

b. No

c. Don't remember

10. IF it was BRIGHTER THAN the sky background, was the brightness like that of an automobile headlight?:

(Circle One) a. A mile or more away (a distant car)?

b. Several blocks away?

c. A block away?

d. Several yards away?

e. Other Bright as magnesium flare

11. Did the object:

(Circle One for each question)

- | | | | |
|---|------------|-----------|-------------------|
| a. Appear to stand still at any time? | Yes | No | <u>Don't Know</u> |
| b. Suddenly speed up and rush away at any time? | Yes | <u>No</u> | Don't Know |
| c. Break up into parts or explode? | Yes | <u>No</u> | Don't Know |
| d. Give off smoke? | Yes | <u>No</u> | Don't Know |
| e. Change brightness? See g. | <u>Yes</u> | No | Don't Know |
| f. Change shape? | Yes | <u>No</u> | Don't Know |
| g. Flicker, throb, or pulsate? Regularly on and off | <u>Yes</u> | No | Don't Know |

12. Did the object move behind something at anytime, particularly a cloud?

(Circle One):

Yes

No

Don't Know.

IF you answered YES, then tell what

it moved behind: _____

13. Did the object move in front of something at anytime, particularly a cloud?

(Circle One):

Yes

No

Don't Know.

IF you answered YES, then tell what

it moved in front of: _____

14. Did the object appear: (Circle One):

a. Solid?

as a light is solid

b. Transparent?

c. Don't Know.

15. Did you observe the object through any of the following?

- a. Eyeglasses
 b. Sun glasses
 c. Windshield
 d. Window glass

Yes
 Yes
 Yes
 Yes

No
No
No
No

- e. Binoculars
 f. Telescope
 g. Theodolite
 h. Other

Yes
 Yes
 Yes

No
No
No

Plexiglas of aircraft

16. Tell in a few words the following things about the object.

a. Sound No sound or if any could not hear as in aircraft.

b. Color Very, very, bright light

17. Draw a picture that will show the shape of the object or objects. Label and include in your sketch any details of the object that you saw such as wings, protrusions, etc., and especially exhaust trails or vapor trails. Place an arrow beside the drawing to show the direction the object was moving.

Circular, round light - appeared as if it were focused directly at me but was not as it illumined cloud deck to south of and above my course.

18. The edges of the object were: see above

(Circle One): a. Fuzzy or blurred
b. Like a bright star
c. Sharply outlined
d. Don't remember

e. Other Very bright and localized,
no definition as an auto head-
light blinding you has no
definition.

19. IF there was MORE THAN ONE object, then how many were there? Only one light
Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

20. Draw a picture that will show the motion that the object or objects made. Place an "A" at the beginning of the path, a "B" at the end of the path, and show any changes in direction during the course.

Relative motion not observable because of darkness.
Object appeared to be travelling in our direction.
(course of my aircraft about 70°)

21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
_____ feet. Any guess would be bad.

22. How large did the object or objects appear as compared with one of the following objects held in the hand and at about arm's length?

(Circle One):

a. Head of a pin

g. Silver dollar

b. Penny

h. Baseball

c. Dime

i. Grapefruit

d. Nickel

j. Basketball

e. Quarter

k. Other _____

f. Half dollar

- 22.1 (Circle One of the following to indicate how certain you are of your answer to Question 22.)

a. Certain

c. Not very sure

b. Fairly certain

d. Uncertain

23. How did the object or objects disappear from view? _____
Stopped all at once when I called Indianapolis CAA

24. In order that you can give as clear a picture as possible of what you saw, we would like for you to imagine that you could construct the object that you saw. Of what type material would you make it? How large would it be, and what shape would it have? Describe in your own words a common object or objects which when placed up in the sky would give the same appearance as the object which you saw.

Like nothing I have ever seen before in my flying experience.

25. Where were you located when you saw the object?
(Circle One):

- a. Inside a building
- b. In a car
- c. ~~Outdoors~~
- d. In an airplane
- e. At sea
- f. Other _____

26. Were you (Circle One)

- a. In the business section of a city?
- b. In the residential section of a city?
- c. In open countryside?
- d. Flying near an airfield?
- e. ~~Flying over a city?~~
- f. Flying over open country?
- g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it?

Flying an Aero Commander aircraft at 5000' MSL.

Object called to my attention by passenger who was pilot
during war.

28. IF you were MOVING IN AN AUTOMOBILE or other vehicle at the time, then complete the following questions:

28.1 What direction were you moving? (Circle One) Course of 70°

- | | | | |
|--------------|--------------|--------------|--------------|
| a. North | c. East | e. South | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

28.2 How fast were you moving? 180 miles per hour.

28.3 Did you stop at any time while you were looking at the object?

(Circle One)

Yes

No

29. What direction were you looking when you first saw the object? (Circle One)

- | | | | |
|--------------|--------------|-------------------------|--------------|
| a. North | c. East | <u>e. South</u> | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

30. What direction were you looking when you last saw the object? (Circle One)

- | | | | |
|-----------------|--------------|-----------------|--------------|
| a. <u>North</u> | c. East | <u>e. South</u> | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

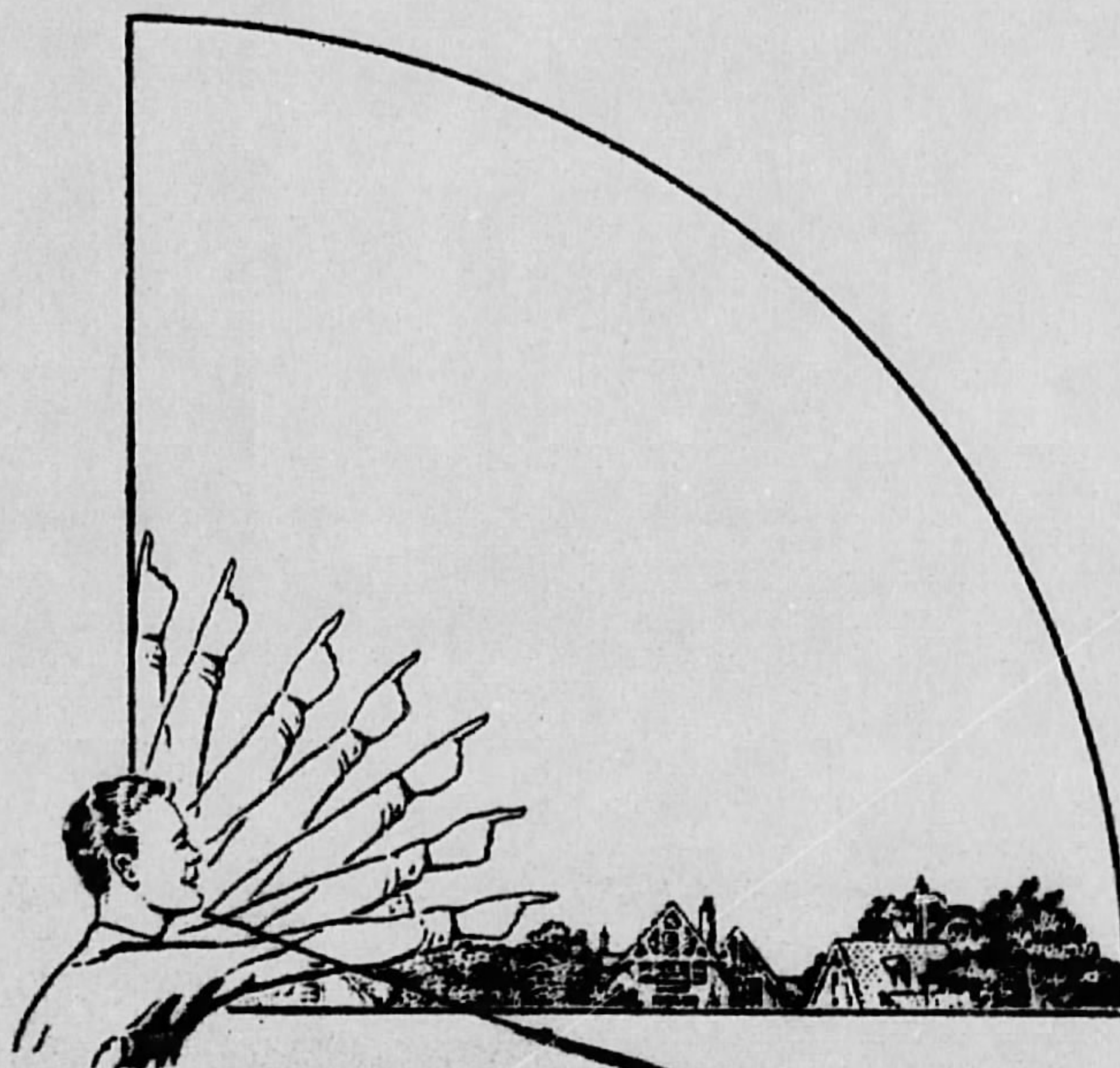
31.1 When it first appeared: I was on course of 70° - object at right angles to aircraft on right-guess at 160°

- a. From true North _____ degrees.
- b. From horizon _____ degrees. No horizon visible but object was below me at below cloud deck.

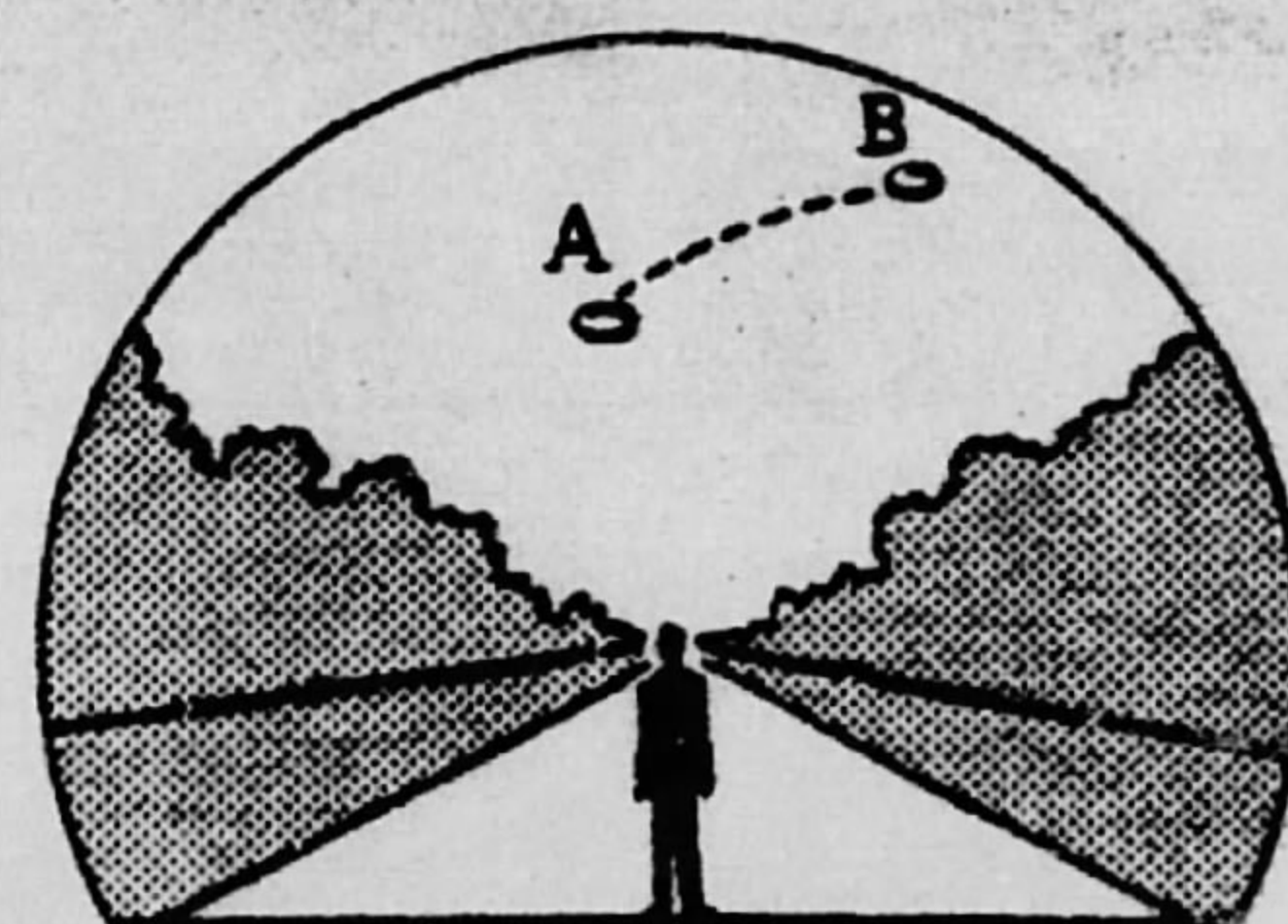
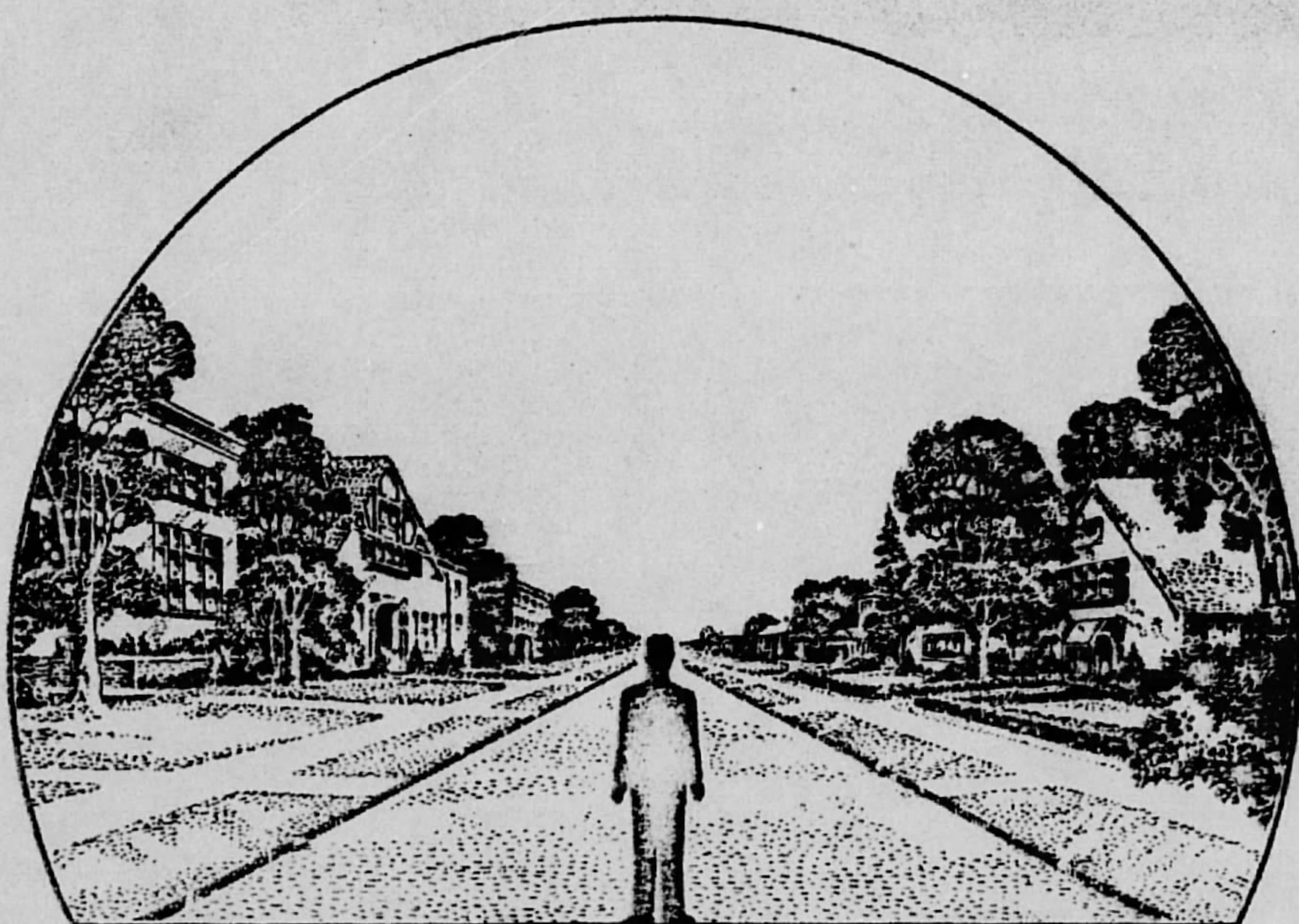
31.2 When it disappeared:

- a. From true North _____ degrees.
- b. From horizon _____ degrees.

32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the same curved line to show how high the object was above the horizon (skyline) when you *last* saw it.



33. In the following larger sketch place an "A" at the position the object was when you *first* saw it, and a "B" at its position when you *last* saw it. Refer to smaller sketch as an example of how to complete the larger sketch.



Impossible

34. What were the weather conditions at the time you saw the object?

34.1 CLOUDS (Circle One)

- a. Clear sky
- b. Hazy
- c. Scattered clouds deck to south
- d. Thick or heavy clouds
- e. Don't remember

34.2 WIND (Circle One)

- a. No wind
- b. Slight breeze
- c. Strong wind Tail wind about 15K
- d. Don't remember

34.3 WEATHER (Circle One)

- a. Dry
- b. Fog, mist, or light rain
- c. Moderate or heavy rain
- d. Snow
- e. Don't remember

34.4 TEMPERATURE (Circle One)

- a. Cold
- b. Cool
- c. Warm
- d. Hot
- e. Don't remember

35. When did you report to some official that you had seen the object? Reported CAA immediately.
ATIC as in this answer.

6
Feb.
1956

Day
Month
Year

36. Was anyone else with you at the time you saw the object?

(Circle One) Yes No

36.1 IF you answered YES, did they see the object too?

(Circle One) Yes No

36.2 Please list their names and addresses:

[REDACTED] Blvd.
[REDACTED] St. Louis 8, Missouri

37. Was this the first time that you had seen an object or objects like this?

(Circle One) Yes No

37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

38. In your opinion what do you think the object was and what might have caused it?

Logical guess is that it was some sort of flash on an aircraft for photography, possibly strip maps at night.

39. Do you think you can estimate the speed of the object?

(Circle One)

Yes

No

same as mine

IF you answered YES, then what speed would you estimate?

180 m.p.h.

40. Do you think you can estimate how far away from you the object was? At first thought it was a few hundred feet—best estimate 5 to 8 miles.

(Circle One)

Yes

No

IF you answered YES, then how far away would you say it was?

 feet.

41. Please give the following information about yourself:

NAME

Last Name

First Name

Middle Name

ADDRESS

 St.
Street

Troy,

City

Zone

Ohio

State

TELEPHONE NUMBER

What is your present job?

 , Brown-Bridge Mills, Inc.

Age

50

Sex

M

Please indicate any special educational training that you have had.

a. Grade school X

b. High school X

c. College X

d. Post graduate

e. e. Technical school

(Type) Mechanical Engineering

f. Other special training

42. Date you completed this questionnaire:

8

Day

Feb.

Month

1956

Year

U. S. AIR FORCE TECHNICAL INFORMATION SHEET
(SUMMARY DATA)

In order that your information may be filed and coded as accurately as possible, please use the following space to write out a short description of the event that you observed. You may repeat information that you have already given in the questionnaire, and add any further comments, statements, or sketches that you believe are important. Try to present the details of the observation in the order in which they occurred. Additional pages of the same size paper may be attached if they are needed.

NAME _____
(Please Print)

(Do Not Write in This Space)

CODE:

SIGNATURE _____

DATE 8 February, 1956

I left St. Louis Lambert Field at dusk January 5 with my passenger, [REDACTED], our St. Louis salesman. We climbed VFR to 5000 and flew air ways using Omni Range stations. Air speed about 180 MPH. At about Terre Haute, Tom (an ex-Air Force man) said: "Do you believe in flying saucers?" I passed it off and didn't even look. At about Clayton marker 10 miles or so west of Indianapolis, he said: "There it is again". This time I saw a very bright intermittent light that at first appeared to be just off my right wing tip and at my altitude. First reaction was that another aircraft was passing us very close and that this was one of his white belly lights. Second and closer observation showed light some distance away - maybe 3, maybe 10 miles. Nothing to judge by - no horizon. Best guess on distance was somewhat south and west of Indianapolis Weir Cook Airport. I called Indianapolis radio and asked what it was and light went off. While CAA was calling Tower air liner over Chicago called me and said: "Glad you asked what that light was. I'm over Chicago and I saw it flasing and it just went off". Chicago is about 185 miles from this point. I figure that the object was in the air because, if it were on the ground, the pilot in Chicago would have had to be at 24,000 feet altitude to see it.

For brightness comparison - at Indianapolis someone was opening a gas station or super market or something and had several of those portable strong beam producing lights. In contrast, they were candles in brightness.

Another point I had not thought of - after the light went out, or disappeared, I did not see any aircraft position lights. Suggestion: If this is Army photographic equipment, similar high intensity lighting sure would help on airports on low visibility approaches on dark foggy nights.

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

This questionnaire has been prepared so that you can give the U. S. Air Force as much information as possible concerning the unidentified aerial phenomenon that you have observed. Please try to answer as many questions as you possibly can. The information that you give will be used for research purposes, and will be regarded as confidential material. Your name will not be used in connection with any statements, conclusions, or publications without your permission. We request this personal information so that, if it is deemed necessary, we may contact you for further details.

1. When did you see the object?

5 Jan 1956
Day Month Year

2. Time of day:

about

19
Hour

30
Minutes

(Circle One):

A.M.

or

P.M.

3. Time zone:

(Circle One):

a. Eastern

b. Central

c. Mountain

d. Pacific

e. Other _____

(Circle One):

a. Daylight Saving

b. Standard

4. Where were you when you saw the object?

Nearest Postal Address

City or Town

State or Country

Additional remarks:

Indianapolis Ind.
Between Terre Haute & Indpls about
Clayton Marker on airway west of Indpls

5. Estimate how long you saw the object.

Hours

56 10
Minutes

Seconds

5.1 Circle one of the following to indicate how certain you are of your answer to Question 5.

a. Certain

b. Fairly certain

c. Not very sure

d. Just a guess

6. What was the condition of the sky?

(Circle One):

a. Bright daylight

b. Dull daylight

c. Bright twilight

d. Just a trace of daylight

e. No trace of daylight

f. Don't remember

7. IF you saw the object during DAYLIGHT, TWILIGHT, or DAWN, where was the SUN located as you looked at the object?

(Circle One):

a. In front of you

b. In back of you

c. To your right

d. To your left

e. Overhead

f. Don't remember

8. IF you saw the object, at NIGHT, TWILIGHT, or DAWN, what did you notice concerning the STARS and MOON?

8.1 STARS (Circle One):

- a. None
b. A few
 c. Many
 d. Don't remember

8.2 MOON (Circle One):

- a. Bright moonlight
 b. Dull moonlight
c. No moonlight — pitch dark
 d. Don't remember

9. Was the object brighter than the background of the sky?

(Circle One):

a. Yes

b. No

c. Don't remember

10. IF it was BRIGHTER THAN the sky background, was the brightness like that of an automobile headlight?:

(Circle One) a. A mile or more away (a distant car)?

b. Several blocks away?

c. A block away?

d. Several yards away?

e. Other *Bright as magnesium flare*

11. Did the object:

(Circle One for each question)

a. Appear to stand still at any time?

Yes

No

Don't Know

b. Suddenly speed up and rush away at any time?

Yes

No

Don't Know

c. Break up into parts or explode?

Yes

No

Don't Know

d. Give off smoke?

Yes

No

Don't Know

e. Change brightness?

Yes

No

Don't Know

f. Change shape?

Yes

No

Don't Know

g. Flicker, throb, or pulsate? *See 9. Regularly on & off*

Yes

No

Don't Know

12. Did the object move behind something at anytime, particularly a cloud?

(Circle One):

Yes

No

Don't Know.

IF you answered YES, then tell what

it moved behind: _____

13. Did the object move in front of something at anytime, particularly a cloud?

(Circle One):

Yes

No

Don't Know.

IF you answered YES, then tell what

it moved in front of: _____

14. Did the object appear: (Circle One):

a. Solid?

b. Transparent?

c. Don't Know.

15. Did you observe the object through any of the following?

a. Eyeglasses

Yes

No

b. Sun glasses

Yes

No

c. Windshield

Yes

No

d. Window glass

Yes

No

e. Binoculars

Yes

No

f. Telescope

Yes

No

g. Theodolite

Yes

No

h. Other *Plexiglas of aircraft*

16. Tell in a few words the following things about the object.

- a. Sound No sound or if any could not hear as in aircraft
- b. Color Very, very, bright light

17. Draw a picture that will show the shape of the object or objects. Label and include in your sketch any details of the object that you saw such as wings, protrusions, etc., and especially exhaust trails or vapor trails. Place an arrow beside the drawing to show the direction the object was moving.

Circular, round light - appeared as if it were focused directly at me but was not as it illuminated cloud deck to south of and above my course

18. The edges of the object were: see above

- (Circle One): a. Fuzzy or blurred
b. Like a bright star
c. Sharply outlined
d. Don't remember

e. Other Very bright and localized, no definition as an auto head light blinding you has no definition

19. IF there was MORE THAN ONE object, then how many were there? Only one light
Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

20. Draw a picture that will show the motion that the object or objects made. Place an "A" at the beginning of the path, a "B" at the end of the path, and show any changes in direction during the course.

Relative motion not observable because of darkness. Object appeared to be travelling in our direction (course of my aircraft about 90°)

21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension. _____ feet. any guess would be bad

22. How large did the object or objects appear as compared with one of the following objects held in the hand and at about arm's length?

(Circle One):

- a. Head of a pin
- b. Pea
- c. Dime
- d. Nickel
- e. Quarter
- f. Half dollar

- g. Silver dollar
- h. Baseball
- i. Grapefruit
- j. Basketball
- k. Other _____

- 22.1 (Circle One of the following to indicate how certain you are of your answer to Question 22.

- a. Certain
- b. Fairly certain

- c. Not very sure
- d. Uncertain

23. How did the object or objects disappear from view? Stopped all at once
when I called Indianapolis C & A

24. In order that you can give as clear a picture as possible of what you saw, we would like for you to imagine that you could construct the object that you saw. Of what type material would you make it? How large would it be, and what shape would it have? Describe in your own words a common object or objects which when placed up in the sky would give the same appearance as the object which you saw.

Like nothing I have ever seen before in my flying experience

25. Where were you located when you saw the object?
(Circle One):

- a. Inside a building
- b. In a car
- c. Outdoors
- d. In an airplane
- e. At sea
- f. Other _____

26. Were you (Circle One)

- a. In the business section of a city?
- b. In the residential section of a city?
- c. In open countryside?
- d. Flying near an airfield?
- e. Flying over a city?
- f. Flying over open country?
- g. Other _____

27. What were you doing at the time you saw the object, and how did you happen to notice it?

Flying as Aero commander aircraft at 5000' MSL
Object called to my attention by passenger, who
was pilot during war.

28. IF you were MOVING IN AN AUTOMOBILE or other vehicle at the time, then complete the following questions:

28.1 What direction were you moving? (Circle One) Course of 70°

- | | | | |
|--------------|--------------|--------------|--------------|
| a. North | c. East | e. South | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

28.2 How fast were you moving? 180 miles per hour.

28.3 Did you stop at any time while you were looking at the object?

(Circle One)

Yes

No

29. What direction were you looking when you first saw the object? (Circle One)

- | | | | |
|--------------|--------------|-----------------|--------------|
| a. North | c. East | <u>e. South</u> | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

30. What direction were you looking when you last saw the object? (Circle One)

- | | | | |
|-----------------|--------------|-----------------|--------------|
| a. <u>North</u> | c. East | <u>e. South</u> | g. West |
| b. Northeast | d. Southeast | f. Southwest | h. Northwest |

31. If you are familiar with bearing terms (angular direction), try to estimate the number of degrees the object was from true North and also the number of degrees it was upward from the horizon (elevation).

31.1 When it first appeared:

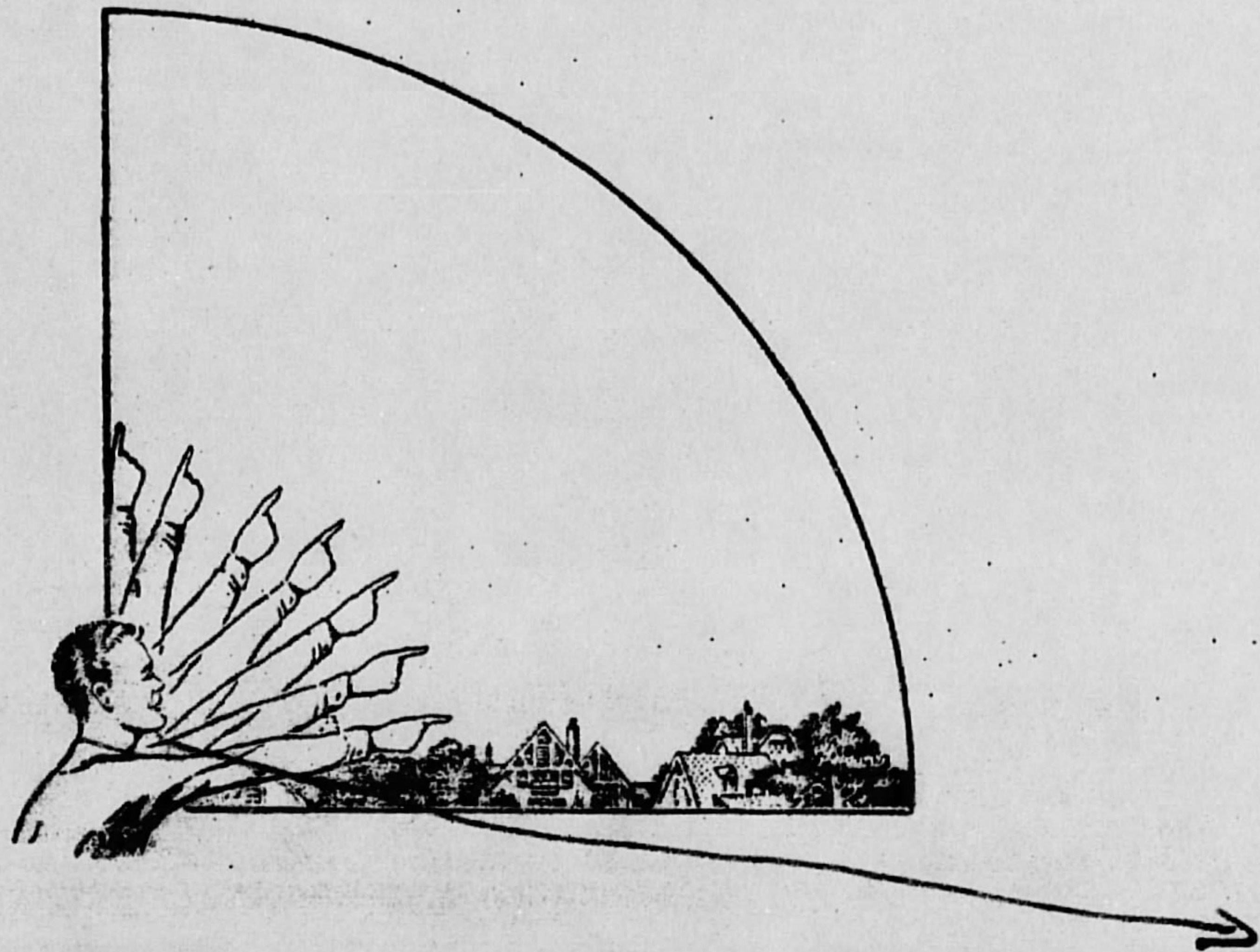
- a. From true North _____ degrees.
- b. From horizon _____ degrees.

31.2 When it disappeared:

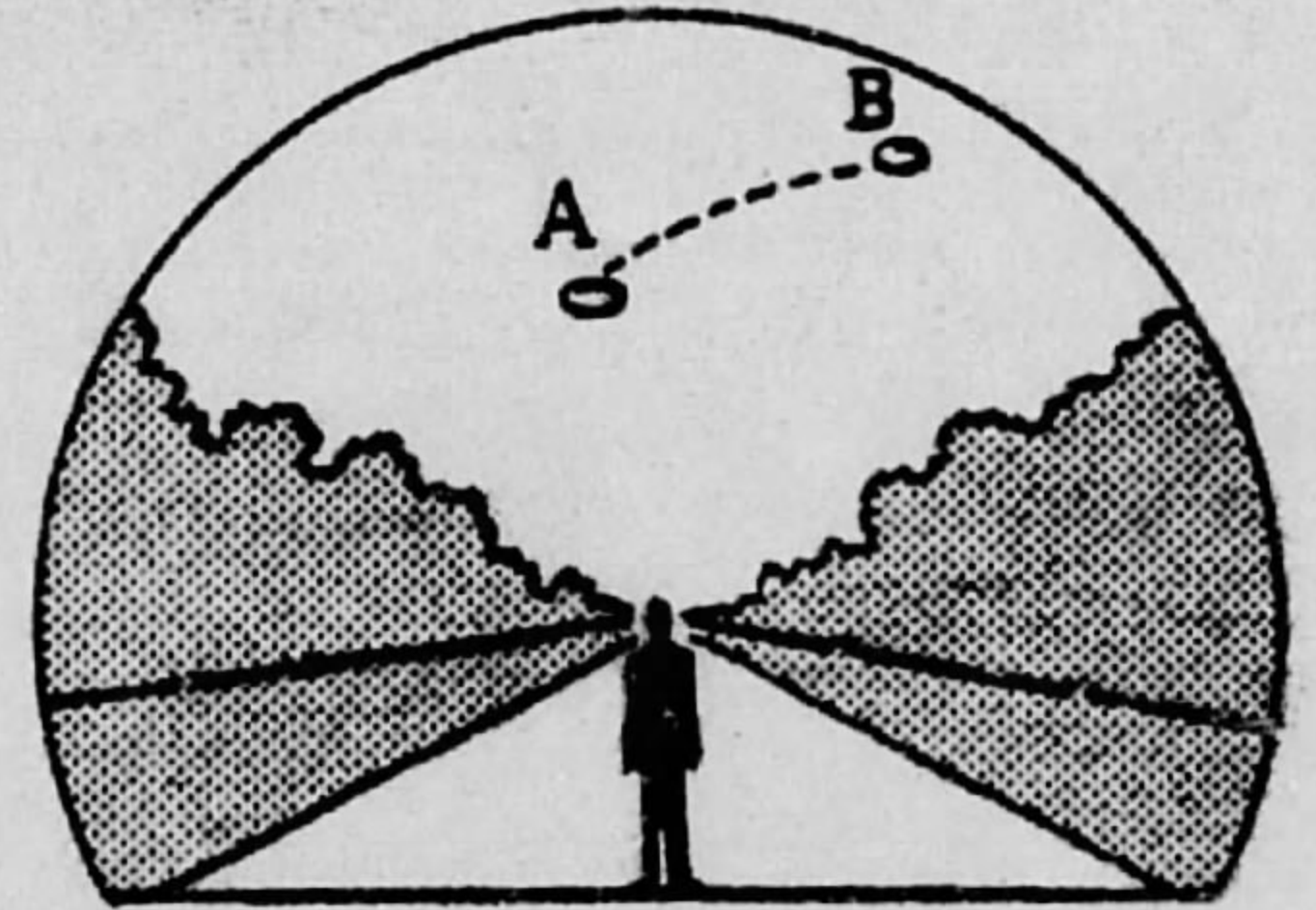
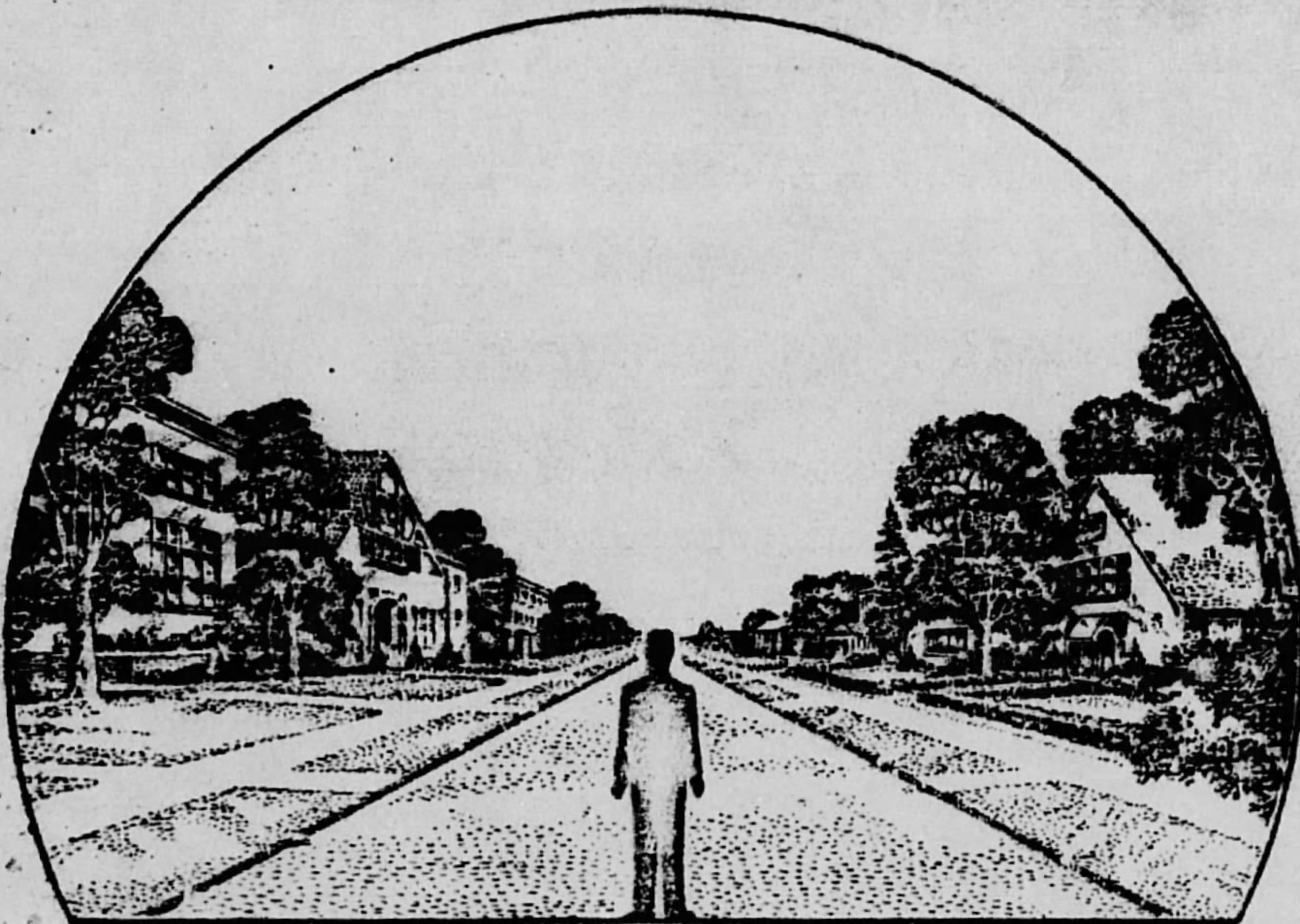
- a. From true North _____ degrees.
- b. From horizon _____ degrees.

I was on course of 20° - object at right angle to
aircraft on sight - guess at 100°
No horizon visible but
object was below me at below cloud deck.

32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the same curved line to show how high the object was above the horizon (skyline) when you *last* saw it.



33. In the following larger sketch place an "A" at the position the object was when you *first* saw it, and a "B" at its position when you *last* saw it. Refer to smaller sketch as an example of how to complete the larger sketch.



Impossible.

34. What were the weather conditions at the time you saw the object?

34.1 CLOUDS (Circle One)

- a. Clear sky
- b. Hazy
- c. Scattered clouds
- d. Thick or heavy clouds
- e. Don't remember

deck to south -

34.2 WIND (Circle One)

- a. No wind
- b. Slight breeze
- c. Strong wind
- d. Don't remember

*tail wind
about 15 K.*

34.3 WEATHER (Circle One)

- a. Dry
- b. Fog, mist, or light rain
- c. Moderate or heavy rain
- d. Snow
- e. Don't remember

34.4 TEMPERATURE (Circle One)

- a. Cold
- b. Cool
- c. Warm
- d. Hot
- e. Don't remember

35. When did you report to some official that you had seen the object?

6

Day

Feb

Month

1956

Year

*Reported CAA
immediately - ATICA
on this answer*

36. Was anyone else with you at the time you saw the object?

(Circle One)

Yes

No

36.1 IF you answered YES, did they see the object too?

(Circle One)

Yes

No

36.2 Please list their names and addresses:

*[Redacted Name] Blvd
St. Louis 8), Mo*

37. Was this the first time that you had seen an object or objects like this?

(Circle One)

Yes

No

37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

38. In your opinion what do you think the object was and what might have caused it?

*Logical guess is that it was some sort of
flash on an aircraft for photography, possibly
ship maps at night.*

39. Do you think you can estimate the speed of the object?

(Circle One)

Yes

No

same as mine

IF you answered YES, then what speed would you estimate?

180 m.p.h.

40. Do you think you can estimate how far away from you the object was?

(Circle One)

Yes

No

*At first thought
it was a few hundred
feet - best estimate
5 to 8 miles*

IF you answered YES, then how far away would you say it was?

5 to 8 miles

41. Please give the following information about yourself:

NAME

[Redacted]
Last Name

[Redacted]
First Name

[Redacted]
Middle Name

ADDRESS

[Redacted] St.
Street

Troy,
City

Zone

Ohio
State

TELEPHONE NUMBER [Redacted]

What is your present job?

[Redacted] Brown-Bridge Mills, Inc.

Age

50

Sex

M

Please indicate any special educational training that you have had.

a. Grade school ☒

b. High school ☒

c. College ☒

d. Post graduate ☐

e. e. Technical school ☐

(Type)

Mechanical Eng.

f. Other special training ☐

42. Date you completed this questionnaire:

8
Day

Feb
Month

56
Year

U. S. AIR FORCE TECHNICAL INFORMATION SHEET

(SUMMARY DATA)

In order that your information may be filed and coded as accurately as possible, please use the following space to write out a short description of the event that you observed. You may repeat information that you have already given in the questionnaire, and add any further comments, statements, or sketches that you believe are important. Try to present the details of the observation in the order in which they occurred. Additional pages of the same size paper may be attached if they are needed.

NAME

(Please Print)

(Do Not Write in This Space)

CODE:

SIGNATURE

DATE

8 Feb, 1956

I left St Louis Lambert Field at dusk Jan 5. with my passenger [redacted], our St. Louis salesman. We climbed VFR to 5000' and flew airways using Omni Range stations. An ex air force man (an ex [redacted]) said "Do you believe in flying saucers?" I handed it off and didn't even look. At about Clayton marker 10 miles or so west of Indianapolis he said "Here it is again this time I saw a very bright intermittent light that at first appeared to be just off my right wing tip and at my altitude. First reaction was that another air craft was passing us very close & that this was one of his white belly lights. Second & closer observation showed light some distance away - maybe 3 maybe 10 miles. Nothing to judge by - no horizon. Bet guess on distance

was some what south and west of Maple
 Wein Cook airport. I called Maple radio &
 asked what it was & light went off. ~~But~~ While
 CAA was calling Tower air line over Chicago
 called me and said " Glad you asked what
 that light was I'm over Chicago and I saw
 it flashing and it just went off " Chicago
 is about 185 miles from this point. I figure
 that the object was in the air because, if it
 were on the ground, the pilot in Chicago
 would have had to be at 24,000 ft altitude
 to see it.

For brightness comparison - at
 Indianapolis some one was opening
 a gas station or super market or some thing
 & had several of those portable strong beam
 producing lights. In contrast they were
 candles in brightness. -

Another point I had not thought of -
 After the light went out, or disappeared I did
 not see any aircraft position lights.

Suggestion : if this is army
 photographic equipment similar high intensity
 lighting sure would help on airports on low
 visibility approaches on dark foggy nights

THE BROWN-BRIDGE MILLS, INC.

TROY, OHIO

OFFICE OF

April 18, 1961

Aerospace Technical Intelligence Center
United States Air Force
Wright-Patterson Air Force Base
Ohio

Att: AFCIN-4E

My dear Colonel Evans:

My face is red! The day before that meeting I got out my log book. The year changed in the middle of the page. At the top of the page, the dates were 1955 and in the middle I began 1956. Consequently, my report to you verbally was erroneous and the report I made to the Center some years ago was in 1956 and the sighting was on the night of January 5 that year instead of the previous year.

Try again and see what you come up with.

Very truly yours,

OFFICIAL FILE COPY

4E

AFCIN-4E/Maj Friend/vw/69216

17 APR 1961

UFO Sighting

The Brown Bridge Mills Inc.
ATTN: Mr. [REDACTED]
Troy, Ohio

Dear Mr. [REDACTED]:

We have searched our files in vain for the report of the UFO sighting which you experienced on 3 January 1955. Unfortunately you did not mention to what agency you made your report, but every year some few cases are lost due to their being reported to some non-military agency and never reaching Air Force channels.

If you will complete the attached questionnaire and return it to AFIC, we will attempt to determine the probable cause of the sighting.

The AFIC address follows:

Aerospace Technical Intelligence Center
ATTN: AFCIN-4E
Wright Patterson Air Force Base, Ohio

Sincerely,

[Signature]
PHILIP S. EVANS
Colonel, USAF
Deputy for Science and Components

1 Atch
AFIC Form 164

COORDINATION: AFCIN-4E

[Signature]
Maj Robert J. Friend

DATE *14 April 61*

Code Check	Level No.	PRESSURE		TEMPERATURE				RELATIVE HUMIDITY		DEW POINT	REMARKS
		Contact	mb	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	Including Correction of	°C	
SIGNIFICANT LEVELS											
900	1	7.1	10.0	7.2	-3.47			7.3	47	11.4	
850	2	5.4	10.0	7.2	-5.15						
800	3	5.4	10.0	7.2	-5.15						
750	4	5.4	10.0	7.2	-5.15	✓					
700	5	5.4	10.0	7.2	-5.15						
650	6	5.4	10.0	7.2	-5.15						
600	7	5.4	10.0	7.2	-5.15						
550	8	5.4	10.0	7.2	-5.15						
500	9	5.4	10.0	7.2	-5.15						
450	10	5.4	10.0	7.2	-5.15						
400	11	5.4	10.0	7.2	-5.15						
350	12	5.4	10.0	7.2	-5.15						
300	13	5.4	10.0	7.2	-5.15						
250	14	5.4	10.0	7.2	-5.15						
200	15	5.4	10.0	7.2	-5.15						
150	16	5.4	10.0	7.2	-5.15						
100	17	5.4	10.0	7.2	-5.15						
50	18	5.4	10.0	7.2	-5.15						

CONSTANT PRESSURE DATA

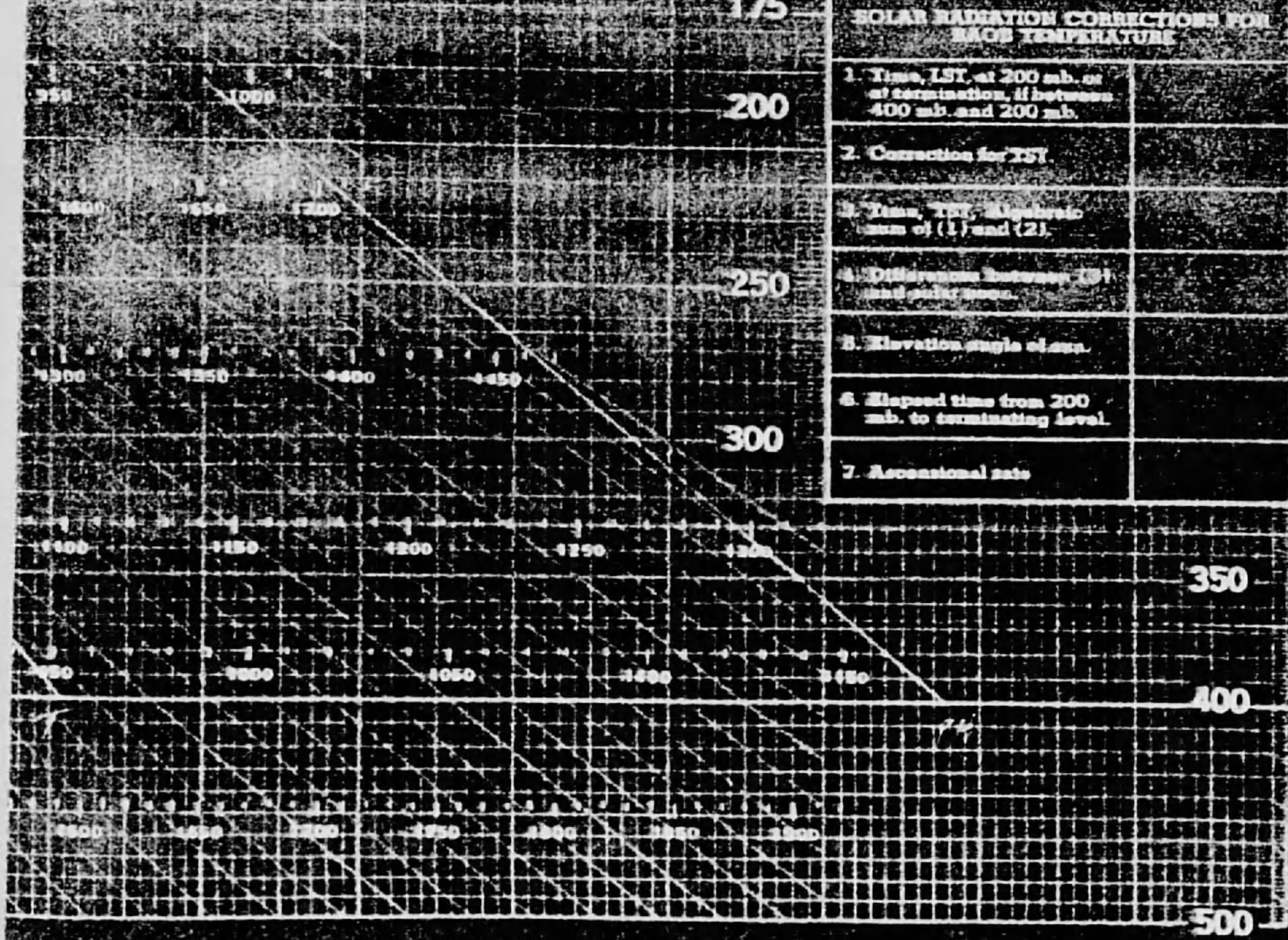
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CODED MESSAGE FOR TRANSMISSION

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SOLAR RADIATION CORRECTIONS FOR

1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.
2. Correction for TST
3. Time, TST, corrected sum of (1) and (2).
4. Difference between (3) and previous sum.
5. Elevation angle class.
6. Elapsed time from 200 mb. to terminating level.
7. Accidental rate

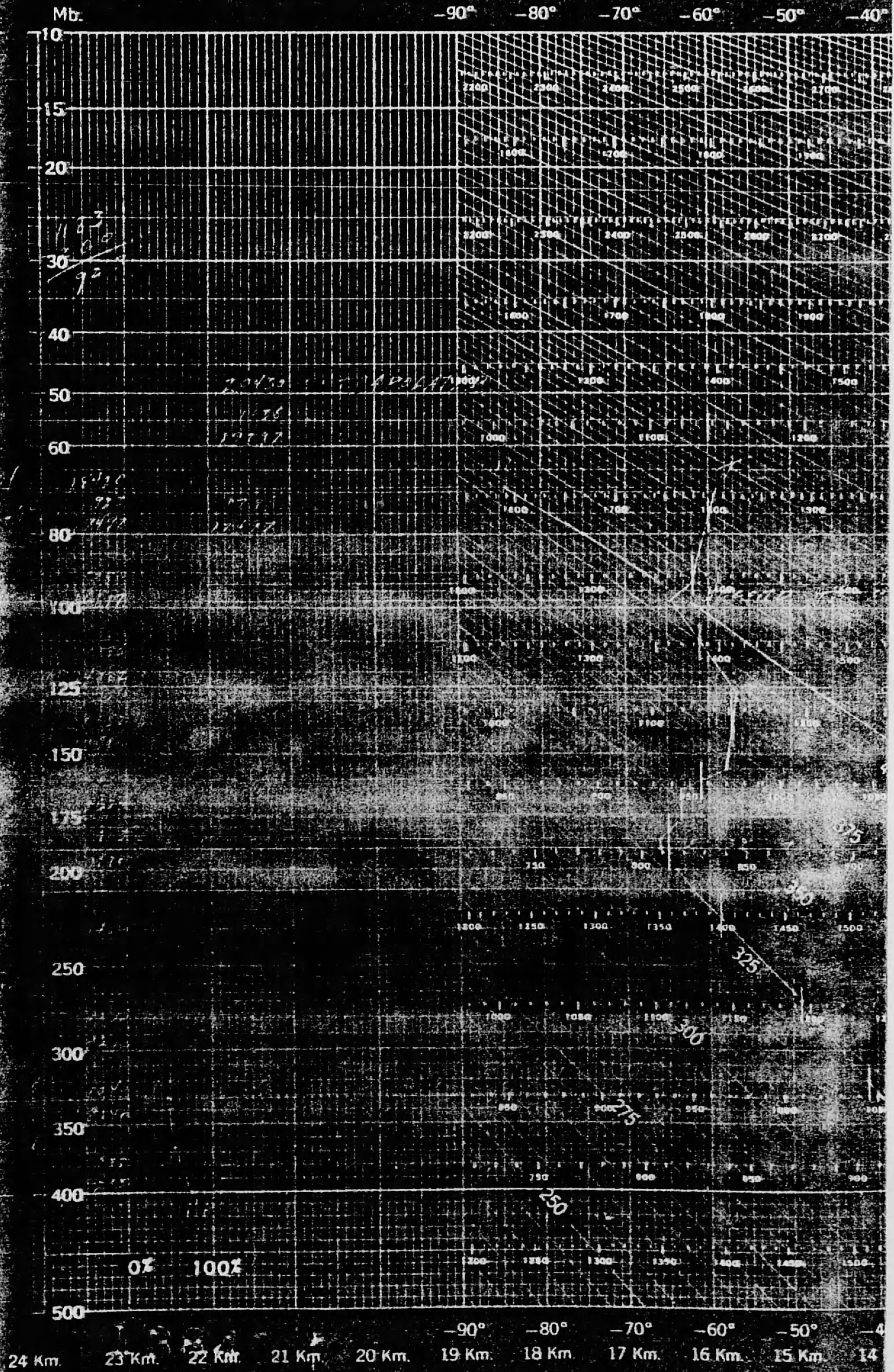


30° 20° 10° 0° 10° (°C)
 13 Km. 12 Km. 11 Km. 10 Km. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.

DATE AND RELEASE TIME

	Year	Month	Day	Time
75	1966	JAN	6	0500
D.C.T.	1966	JAN	6	0500
Reference No.	50329	Station No.	2	

ADIABATIC CHART WBAN-31B



Station	
Lat.	Long.

DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q044	H (gpm)	T
TTT ₂ T ₂ T ₂	°RH	°D.P.
Q047	W (16 ps)	S (m.p.s.)

PM—Pressure height
T—Temperature °C
RH—Relative Humidity
Height scale in gpm

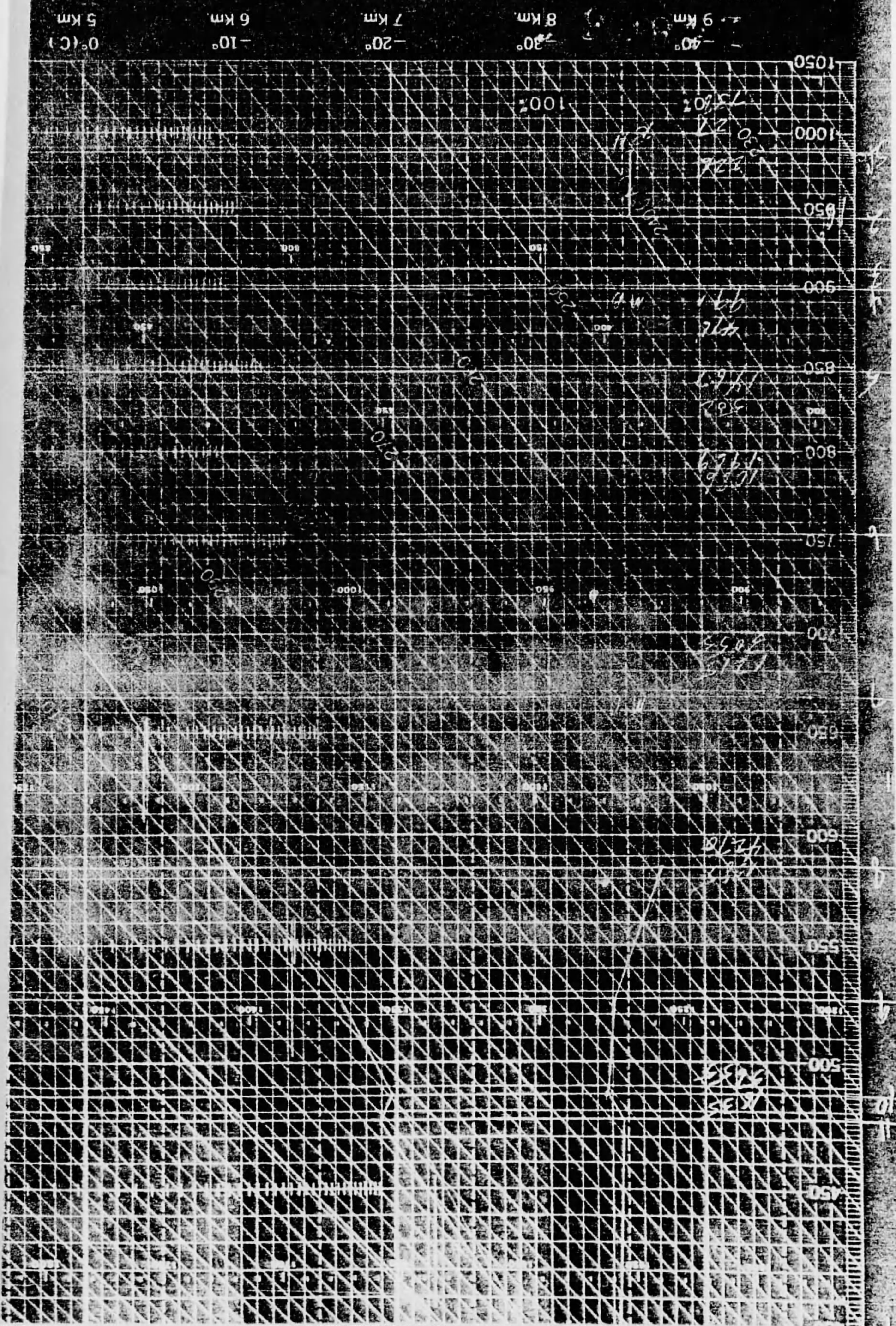
CHART ML-526/UM
1 AUG 1951 — SIG C STOCK NO. 7A507-426

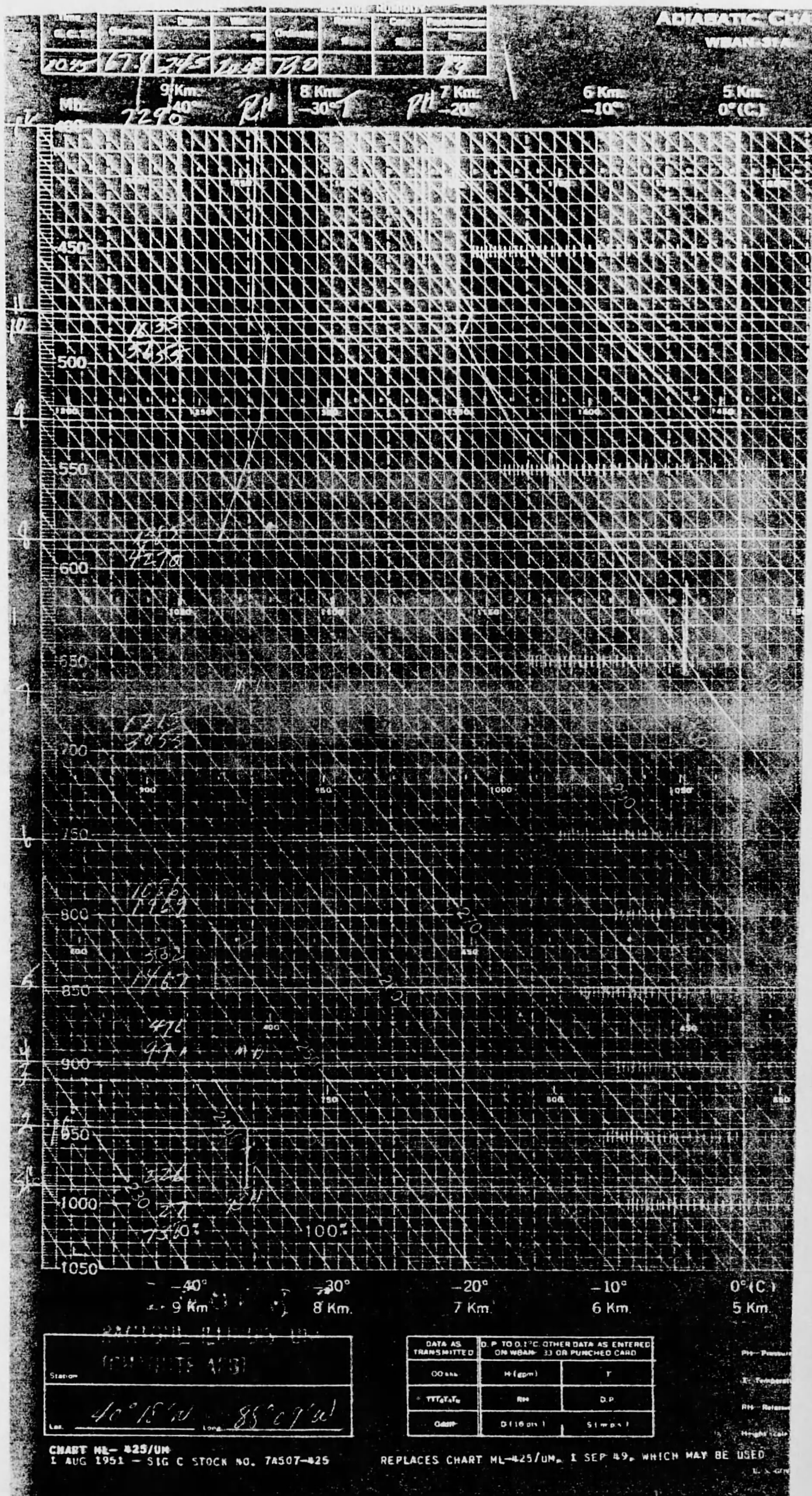
REPLACES CHART ML-426/UM, 1 SEP 49, WHICH MAY BE USED

U.S. GOVERNMENT

REPLACES CHART ML-425/UM, 1 SEP 49, WHICH MAY BE USED

10/10/88 40.15/20

[illegible]



DATA BLOCK A

Clim Data	Unit	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	REMARKS
		Calculated	Barometer	Surface	Atmosphere	Barometer	Atmosphere		
SIGNIFICANT LEVELS									
10	3	917		11.0		44		0.7	
11	3	915	949	5.2	7.7	37	45	3.3	
12	3	911	911	10.2	11.5	50	22	9.5	
13	3	907	899	10.7	12.2	48	18	11.8	
14	3	903	897	10.9	10.1	50	22	10.6	
15	3	899	893	10.3	5.6	50	23	13.1	
16	3	895	889	10.7	2.1	48	18	14.0	
17	3	891	885	10.2	-9.3	5.0	27	24.1	
18	3	887	881	9.7	-16.3	54.3	59	22.5	
19	3	883	877	9.2	-19.7	35.0	62	25.1	
20	3	879	873	8.7	-25.1	25.1	54	26.0	
21	3	875	869	8.2	-26.0	19.0	53	34.3	
22	3	871							
23	3	867							
24	3	863							
25	3	859							
26	3	855							
27	3	851							
28	3	847							
29	3	843							
30	3	839							

CODED MESSAGE FOR TRANSMISSION

231 21037 85411 10493 04619
 70002 00499 03934 50855 61746
 03066 40392 71841 63265 55555
 10417 11503 11944 11537 22311
 1545 2304 12112 14847 10622
 55753 05636 66585 59743 77449
 69757 88477 69160

231	2250	5822
71041	55	34.3
03265	42	0.33

320

6440	21.7
54	X
47	0.33

313

833	36.55	18.6
11744	61	24.3
20160	12	0.31

300

4450	13.5
46	X
12	0.20

315

4270	14.0
112	X
5	0.21

315

1150	0.31
110	X
12	0.20

293

2012	20.55	400.1
03934	10.1	0.16
03934	12	0.21

293

2500	1105.3
112	X
4	0.15

293

1964	009.3
22	X
4	0.11

270

441	14.7	010.5
03934	12.1	011.2
0619	12	0.16

270

1491	012.1
112	X
4	0.17

225

0540008.1	
45	X
4	0.05

180

037	0114	11
11	11	11
11	11	11

PRESSURE		
10487	0917	011.0
11503	44	0.7
12	5	0.04

M.S.I.

15T Release SURFACE
 DATE AND RELEASE TIME

Year	Month	Day	Time
90	56	Jan	05 1500
Q.C.T	56	Jan	05 2100
Radio No	35225	Reception No	20

A. F. STOCK NO. 2600-701-636-510

Drawn by R.F. Wise A/c
 Verified by R.L. CHRISTIANSON A/c
 Reported by _____

PUNCHED CARD No. 1

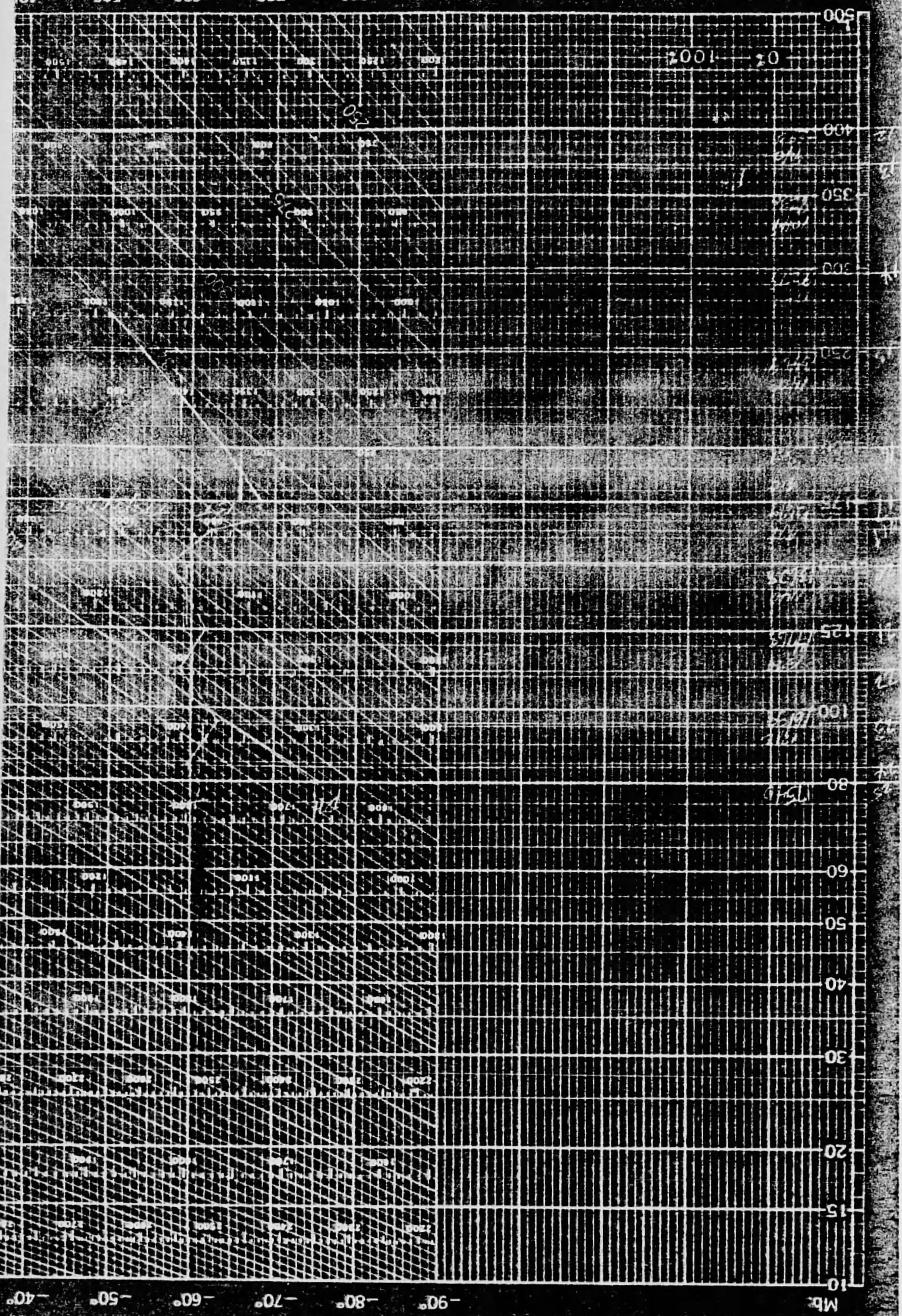
PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

[illegible]

ADIABATIC CHART WEAN-31B



DATA AS TRANSMITTED	DATA AS ENTERED
Q (mm)	Q (mm)
W (mm)	W (mm)
Q (mm)	Q (mm)
Q (mm)	Q (mm)

STATION: *AFBI*

DATE: *12/18/55*

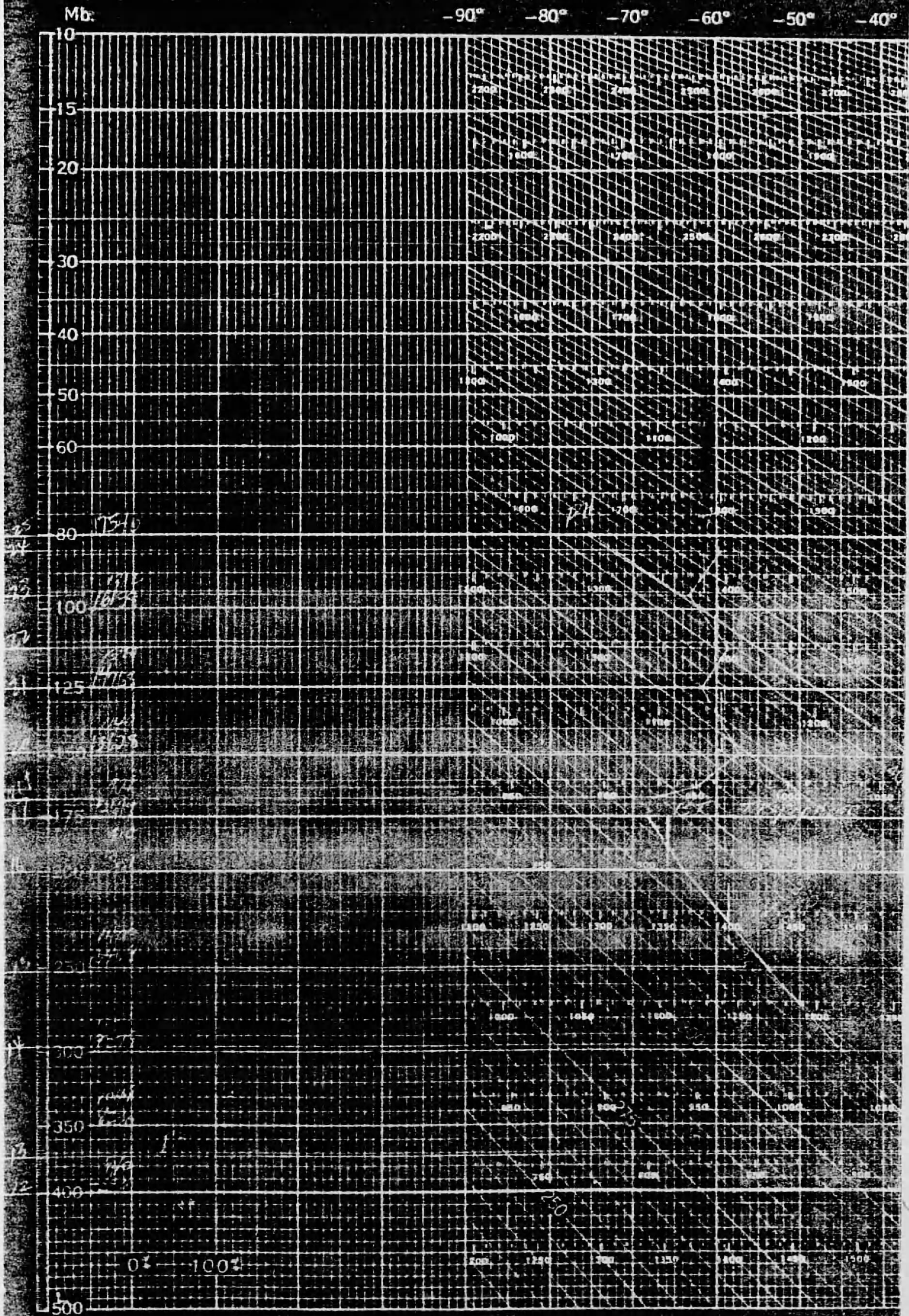
TIME: *0800*

CHART NO. 426/UM. 1 SEP 49. REPLACES CHART NO. 426/UM. 1 SEP 49. WHICH MAY BE USED

1 AUG 1992 - SIG C STOCK NO. 74507-426

ADIABATIC CHART

WBAN-31B



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

STATION: **CHANDLER AFB**

Lat: **40°18'N** Long: **88°09'W**

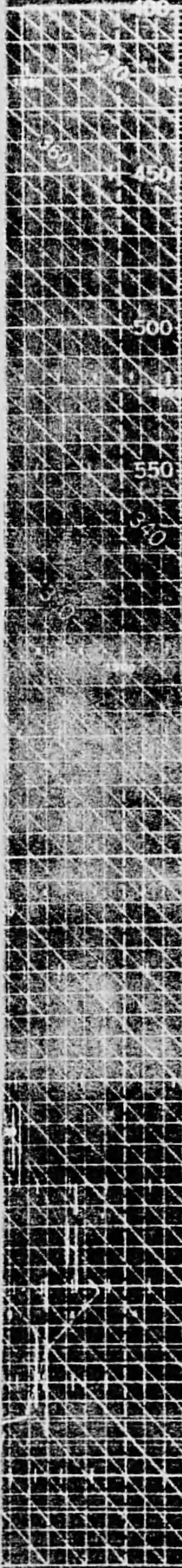
DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PULCHED CARD	
Q01a0	W (g/m ³)	T
TTCaTc	°C	°F
Qa00	D (16 m.)	W (m.s.)

PH—Pressure height
T—Temperature °C
RH—Relative Humidity
Height scale is geopotential

CHART NO. 426/UM
1 AUG 1952 - SIG C STOCK NO. 7A507-426

REPLACES CHART HL-426/UM, 2 SEP 49, WHICH MAY BE USED

4 Km.
10°



Card No.	Card No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	Miles
		Bar	mm	Bar	mm	%	%		
10	1	984		3.5		15		-2.9	
11	2	968	58.7	9.8	10.0	56		1.5	
12	3	923	51.5	11.0	10.0	50		9.3	
13	4	904	46.1	13.6	5.0	21		-8.3	
14	5	731	34.1	7.2	5.0	21		-15.4	
15	6	700	32.7	1.3	11.3	78		11.3	
16	7	34.0	122	42.4	-5.9	5.0	27	-21.8	
17	8	37.9	579	44.0	-10.2	5.4	29	-24.8	
18	9	43.5	522	39.1	-16.5	46.2	68	-21.0	
19	10	53.0	432	32.5	-24.9	44.4	50	-27.4	
20	11	56.8	400	29.5	-28.7	38.0	74	-31.8	
21	12								
22	13								
23	14								
24	15								
25	16								
26	17								
27	18								
28	19								
29	20								

CODED MESSAGE FOR TRANSMISSION									
231	2222	55455	10551	2725					
2296	21993	22936	1856	2825					
23047	10395	2187	2070	5555					
21954	23925	1175	9902	2255					
1151	27217	13567	11751	2255					
20305	5779	1525	1525	2755					
46714	8512	27217	08						

10°
4 Km.

20°
3 Km.

30°
2 Km.

40°
1 Km.

50°
M.S.L.

Drawn by R. X. FELICIA
Checked by C. D. HILLMAN
Inspected by _____

DATE AND RELEASE TIME				
Year	Month	Day	Time	
1956	JAN	5	2100	
1956	JAN	5	2300	
Radiation No 35097				
Revision No 21				

A. F. STOCK NO. 2600-701-636-510

CONSTANT PRESSURE DATA		
985	7270	-25.7
984	7270	-25.7
983	7270	-25.7

6430	-23.0
77	
13	232

850	5.39	-18.4
850	71	-22.4
850	13	0.24

4135	-18.4
9	
13	0.25

1052	-8.6
13	
13	0.22

3000	
13	
13	

850	30.4	10.4
850	71	10.4
850	13	0.24

2410	0.44
21	
13	0.19

1949	0.076
23	
13	0.15

474	10.6	0.106
504	25	-11.6
2725	13	0.13

1969	0.135
21	
13	0.13

1573	10.4
30	
13	0.12

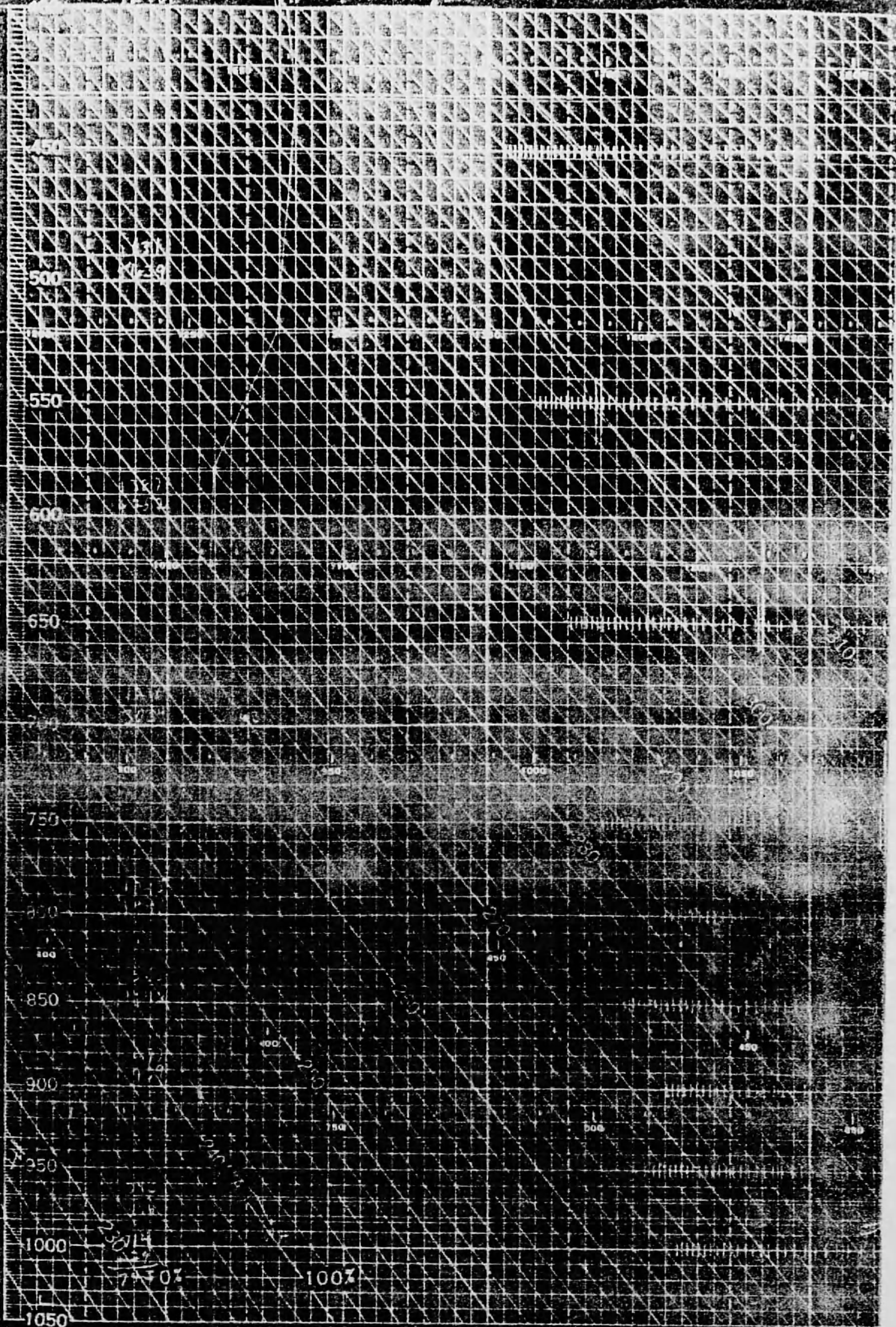
032	10.4	M
	M	M

PRESSURE		
850	45	-2.4
850	13	0.24

DATE AND RELEASE TIME 1st 810 15

ADIABATIC CHANGES

MD	9 Km -40°	8 Km -30°	7 Km -20°	6 Km -10°	5 Km 0° (C)
1	13.10	11.10	10.10	9.10	8.10
2	12.10	11.10	10.10	9.10	8.10
3	11.10	10.10	9.10	8.10	7.10
4	10.10	9.10	8.10	7.10	6.10
5	9.10	8.10	7.10	6.10	5.10
6	8.10	7.10	6.10	5.10	4.10
7	7.10	6.10	5.10	4.10	3.10
8	6.10	5.10	4.10	3.10	2.10
9	5.10	4.10	3.10	2.10	1.10
10	4.10	3.10	2.10	1.10	0.10
11	3.10	2.10	1.10	0.10	-0.10
12	2.10	1.10	0.10	-0.10	-1.10
13	1.10	0.10	-0.10	-1.10	-2.10
14	0.10	-0.10	-1.10	-2.10	-3.10
15	-0.10	-1.10	-2.10	-3.10	-4.10
16	-1.10	-2.10	-3.10	-4.10	-5.10
17	-2.10	-3.10	-4.10	-5.10	-6.10
18	-3.10	-4.10	-5.10	-6.10	-7.10
19	-4.10	-5.10	-6.10	-7.10	-8.10
20	-5.10	-6.10	-7.10	-8.10	-9.10
21	-6.10	-7.10	-8.10	-9.10	-10.10
22	-7.10	-8.10	-9.10	-10.10	-11.10
23	-8.10	-9.10	-10.10	-11.10	-12.10
24	-9.10	-10.10	-11.10	-12.10	-13.10
25	-10.10	-11.10	-12.10	-13.10	-14.10
26	-11.10	-12.10	-13.10	-14.10	-15.10
27	-12.10	-13.10	-14.10	-15.10	-16.10
28	-13.10	-14.10	-15.10	-16.10	-17.10
29	-14.10	-15.10	-16.10	-17.10	-18.10
30	-15.10	-16.10	-17.10	-18.10	-19.10
31	-16.10	-17.10	-18.10	-19.10	-20.10
32	-17.10	-18.10	-19.10	-20.10	-21.10
33	-18.10	-19.10	-20.10	-21.10	-22.10
34	-19.10	-20.10	-21.10	-22.10	-23.10
35	-20.10	-21.10	-22.10	-23.10	-24.10
36	-21.10	-22.10	-23.10	-24.10	-25.10
37	-22.10	-23.10	-24.10	-25.10	-26.10
38	-23.10	-24.10	-25.10	-26.10	-27.10
39	-24.10	-25.10	-26.10	-27.10	-28.10
40	-25.10	-26.10	-27.10	-28.10	-29.10
41	-26.10	-27.10	-28.10	-29.10	-30.10
42	-27.10	-28.10	-29.10	-30.10	-31.10
43	-28.10	-29.10	-30.10	-31.10	-32.10
44	-29.10	-30.10	-31.10	-32.10	-33.10
45	-30.10	-31.10	-32.10	-33.10	-34.10
46	-31.10	-32.10	-33.10	-34.10	-35.10
47	-32.10	-33.10	-34.10	-35.10	-36.10
48	-33.10	-34.10	-35.10	-36.10	-37.10
49	-34.10	-35.10	-36.10	-37.10	-38.10
50	-35.10	-36.10	-37.10	-38.10	-39.10
51	-36.10	-37.10	-38.10	-39.10	-40.10
52	-37.10	-38.10	-39.10	-40.10	-41.10
53	-38.10	-39.10	-40.10	-41.10	-42.10
54	-39.10	-40.10	-41.10	-42.10	-43.10
55	-40.10	-41.10	-42.10	-43.10	-44.10
56	-41.10	-42.10	-43.10	-44.10	-45.10
57	-42.10	-43.10	-44.10	-45.10	-46.10
58	-43.10	-44.10	-45.10	-46.10	-47.10
59	-44.10	-45.10	-46.10	-	



-40°	-30°	-20°	-10°	0° (C)
9 Km.	8 Km.	7 Km.	6 Km.	5 Km.
14806				

Station _____

Lat. 43° 10' N Long. 075° 10' W

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED OR WBAN-33 OR PUNCHED CARD	
00000	W (gpm)	T
TTTTT	RSS	D. P.
00000	D (16 psi)	S (m p.s.)

Dr. J. H. H. H.

T. Temperature

1084 — Journal of Interpersonal Violence 24(6)

Monthly scale in

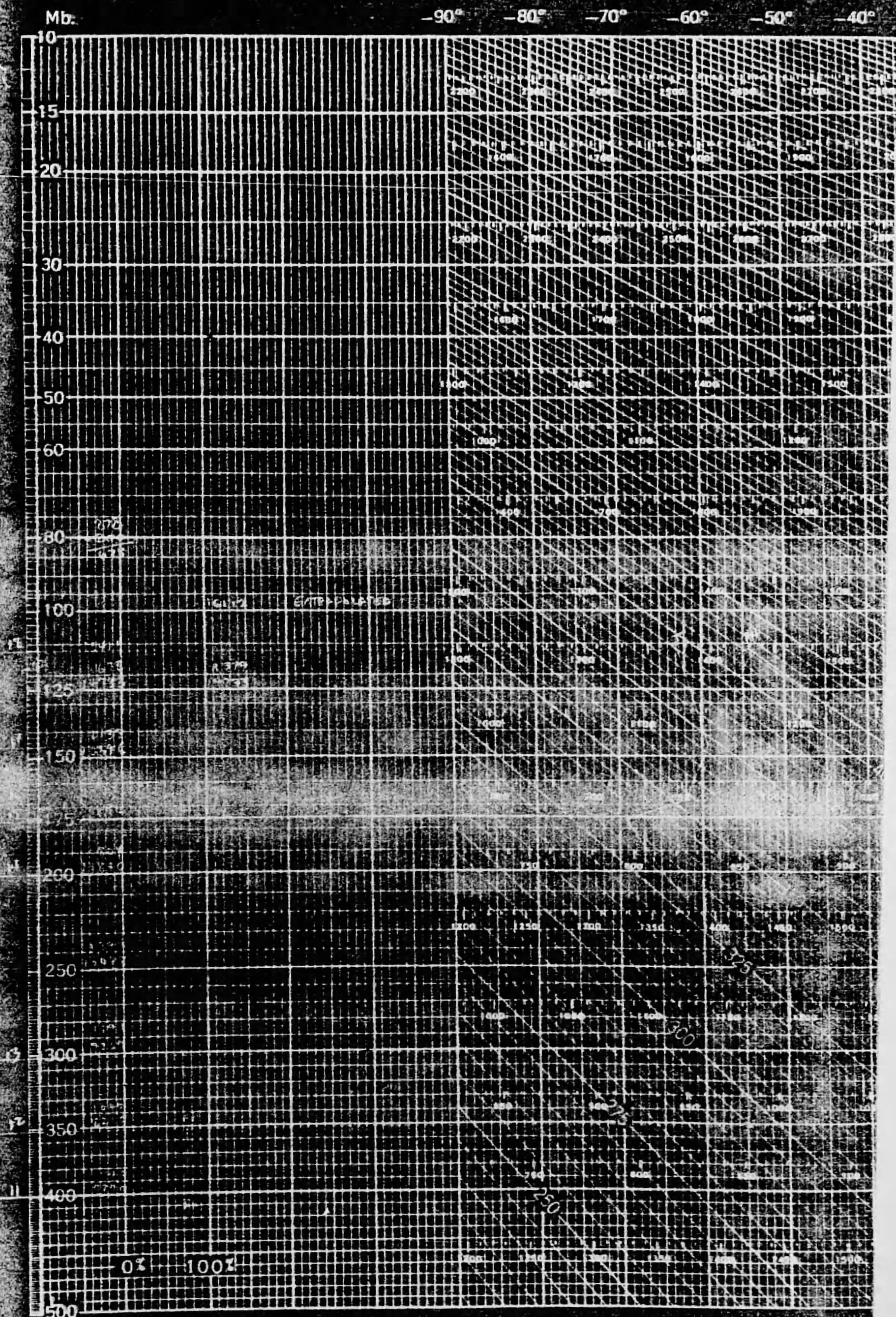
CHAST MC-425/UM
1 AUG 1951 - SIG C STOCK NO. 7A507-425

REPLACES CHART ML-425/UM, 1 SEP 49, WHICH MAY BE USED

U. L. GOWERS

ADIABATIC CHART

WBAN-31B



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

Station	
Lat. <u>40° 15' N</u> Long. <u>75° 00' W</u>	

DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
OD100	W (mm)	T
TT0100	" RH	" D.P.
OD00	D (100 m.)	Wind S (m.p.h.)

PH—Pressure height
T—Temperature °C
RH—Relative Humidity
Height scale in gpm

*Omitted above 200 mb.

CHART NO-426/UM
1 AUG 1952 - SIG C STOCK NO. 7A507-426

REPLACES CHART ML-426/UM, 1 SEP 49, WHICH MAY BE USED

U. S. GOVERNMENT

10°

10°

Code Card	Level No.	PRESSURE		TEMPERATURE		RELATIVE HUMIDITY		Remarks	
		mb	hPa	°C	°F	%	%		
SIGNIFICANT LEVELS									
01	2		904		15		72	-72	
11	2	752		10.0		72		-73	
21	2	752		10.2		72		-70	
31	2	578		13.2		72		-55	
41	2	550		12.0		72		70	
51	2	775		8.1		72		-72.3	
61	2	564		11.0		72		-71.6	
71	2	415		13.2		72		-25.5	
81	2	432		25.2		72		-28.2	
91	2	541		28.1		72		-37.0	
101	2								
111	2								
121	2								
131	2								
141	2								
151	2								
161	2								
171	2								
181	2								
191	2								
201	2								

CODED MESSAGE FOR TRANSMISSION				
531	09032	85473	17990	03123
70994	00647	03834	50850	67752
02972	40387	78821	03024	55555
00984	01534	11952	11523	22000
10571	33878	13582	04795	08621
51564	61692	86337	63752	77432
75781	M			

0357	7275	26.1
0321	67	22.0
0777	43	033

6430	-231
69	X
42	034

0050	5640	-172
67752	49	-255
02972	43	037

4920	-120
42	X
42	032

4248	-078
43	X
42	025

3620	-034
38	X
42	021

0050	5640	-172
67752	49	-255
02972	43	037

2480	0047
27	X
42	012

1944	0085
13	X
42	013

0473	1441	0120
12990	12	010
012	42	013

0963	0102
29	X
73	012

0520	0109
37	X
42	011

0032	0056	2
	M	M

PRESSURE		
00984	0784	0015
01534	71	-32
0	42	000

Year	Month	Day	Time
1956	JAN	6	0300
1956	JAN	6	0900

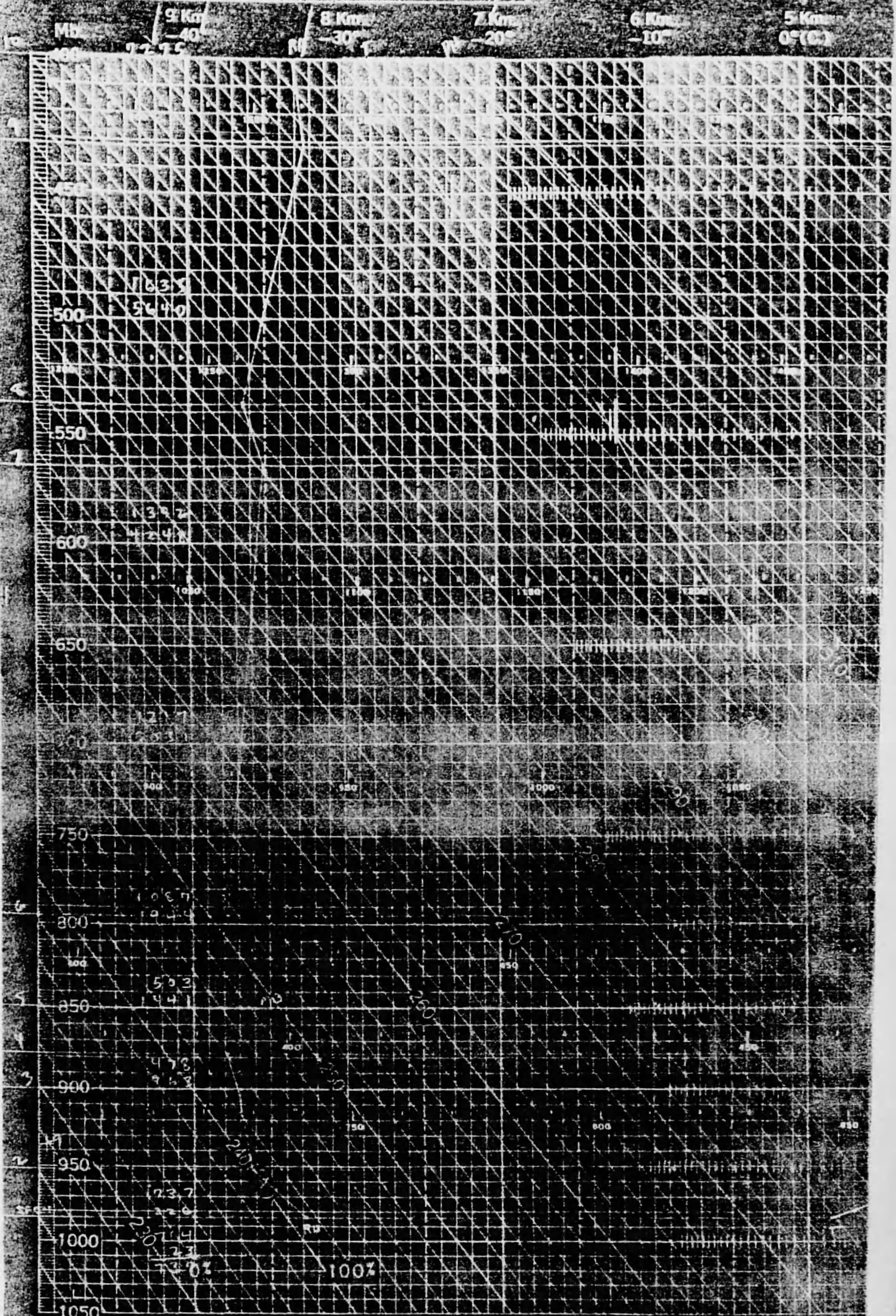
Drawn by C. P. HALLMAN

Worked by R. K. BELESKY

Inspected by

TEMPERATURE		RELATIVE HUMIDITY		WIND		SEA		WEATHER	
Time	Obs	Dir	Sp	Wind	Force	Dir	Force	Obs	Time
0815	65.2	22.0	10.3	7.2	1				7.2

ADIABATIC CHART
WIND-TEMPERATURE



40° 30° 20° 10° 0° (C)
8 Km 7 Km 6 Km 5 Km

14806

STATION	
Lat	Long

DATA AS TRANSMITTED		D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN- 33 OR PUNCHED CARD	
DD hhr	h (gm)	T	
TTT ₀ T ₀	RM	D P	
Qdwp	Q (16 pr)	S (m p. 1)	

CONSTANT PRESSURE DATA

01		
2		
0		
06		
0		

RESEARCH

UNKNOWN CARD No. 1

INCHES CASH NA 13

FIN



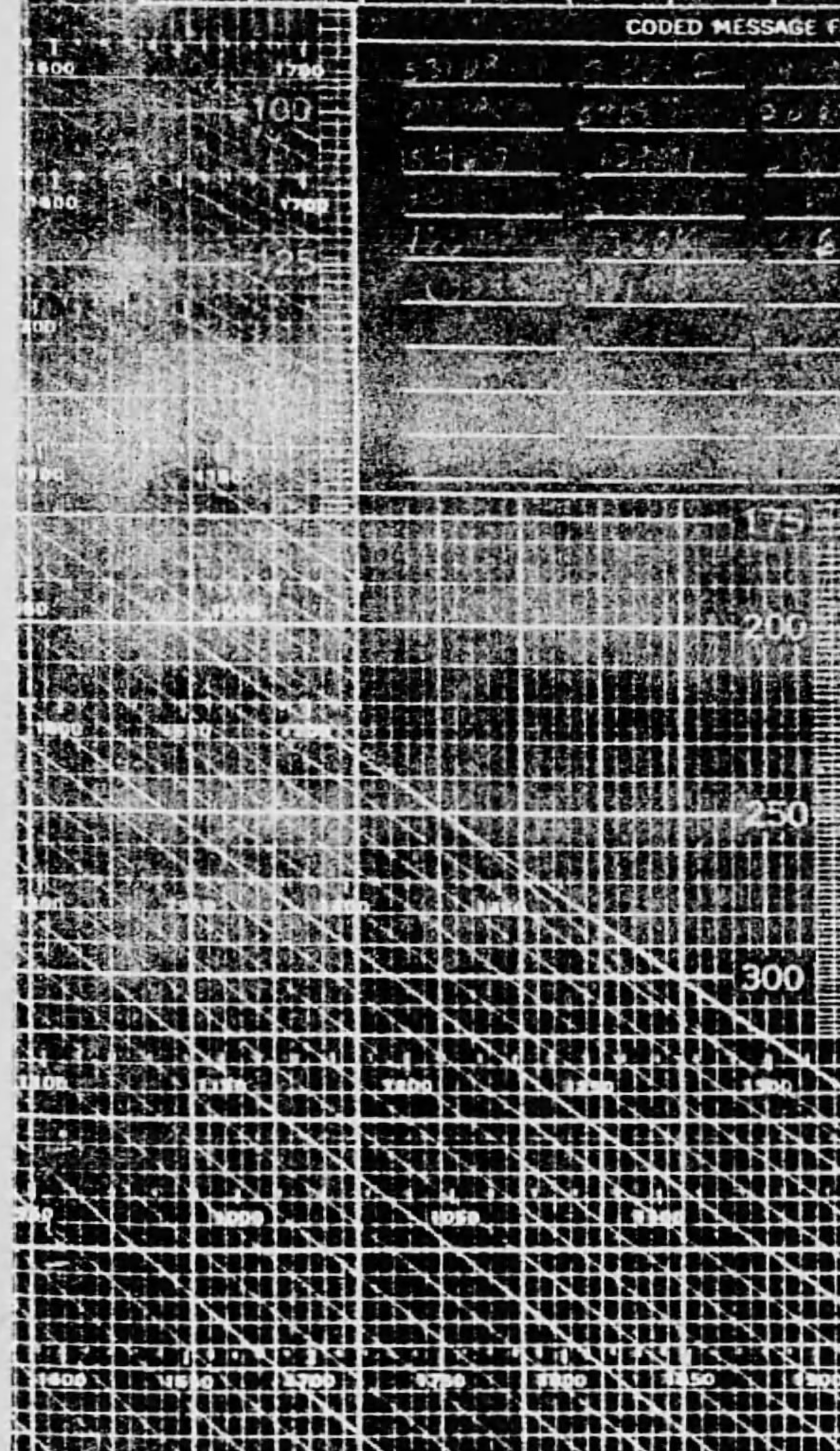
CODED MESSAGE FOR TRANSMISSION

53102	205	205	205	205
205	205	205	205	205
53107	205	205	205	205
205	205	205	205	205
12	205	205	205	205
205	205	205	205	205

10	5	10	-
9	X	X	X
8	+	-	-
282			
		8	
280			
7	7	7	7
	X	X	X
		7	
		+	
280			
6	6	6	6
		6	
		+	
300			
5	5	5	5
		5	
		+	
300			
4	4	4	4
		4	
		+	
300			
3	3	3	3
		3	
		+	
300			
		3	
		+	
300			

SOLAR RADIATION CORRECTIONS FOR WIND TEMPERATURE

1. Run TEST at 200 mb. or intermediate frequencies 200 mb. and 300 mb.	
2. Correction for TEST	
3. Run TEST. Algebraic sum of (1) and (2).	
4. Difference between (3) and (1) is zero.	
5. Elevation angle of sun.	
6. Repeat this Run 300 mb. to constant level.	
7. Rotational rate	



30°	-20°	-10°	0°	10° (°C.)					500
8 Km.	12 Km.	11 Km.	10 Km.	9 Km.	8 Km.	7 Km.	6 Km.	5 Km.	

DATE AND RELEASE TIME

	Year	Month	Day	Time
70 Jan. 1956	1956	JAN	6	0300
REV.	1956	JAN	6	0900

Restaurants Co. 25020 *W-100* Restaurant No. 22

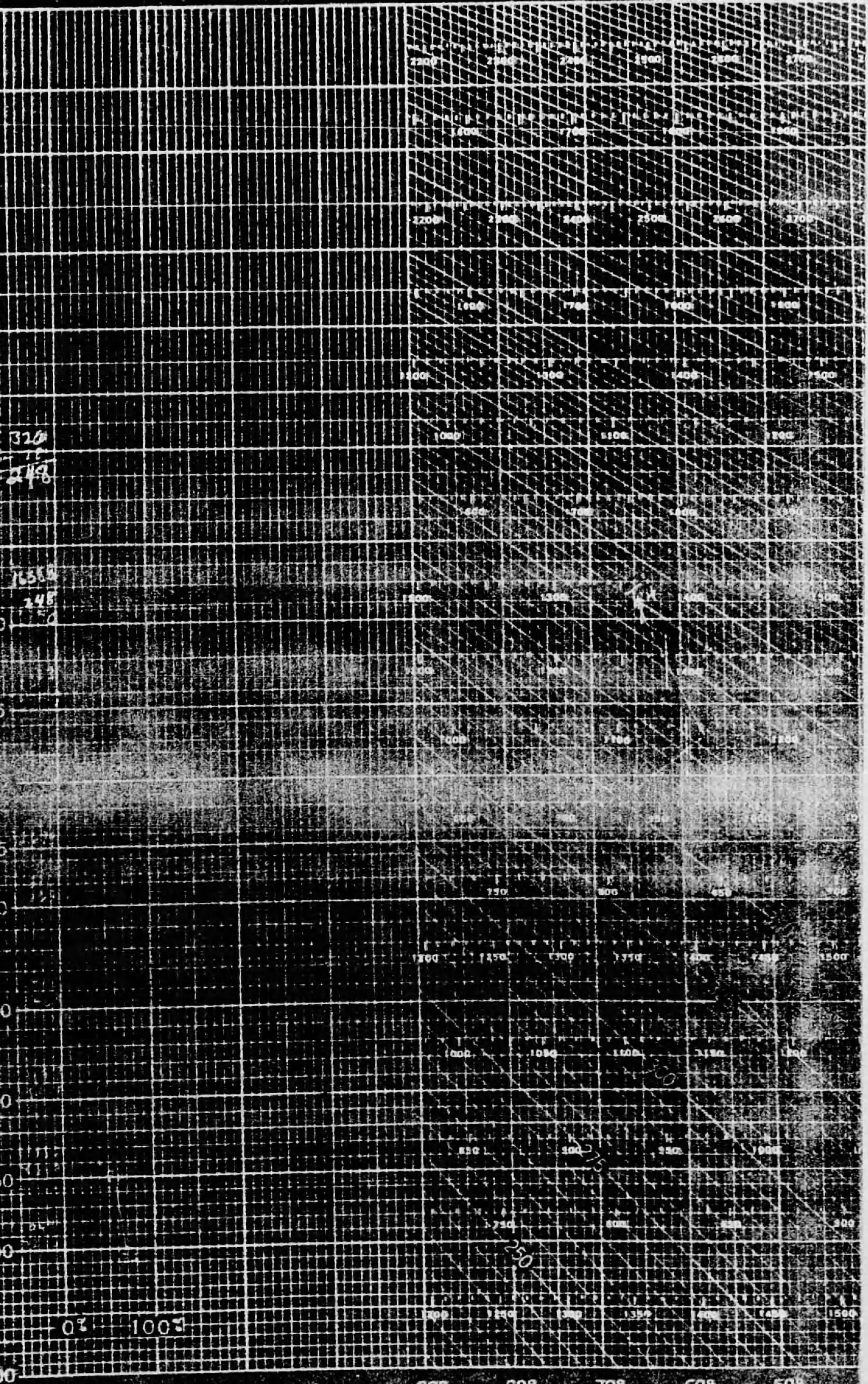
ADIABATIC CHART

WBAN-31B

-90° -80° -70° -60° -50° -40°

Mb

10
15
20
30
40
50
60
80
100
125
175
200
250
300
350
400
500



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

14806

STATION	
NAME	
Lat	Long

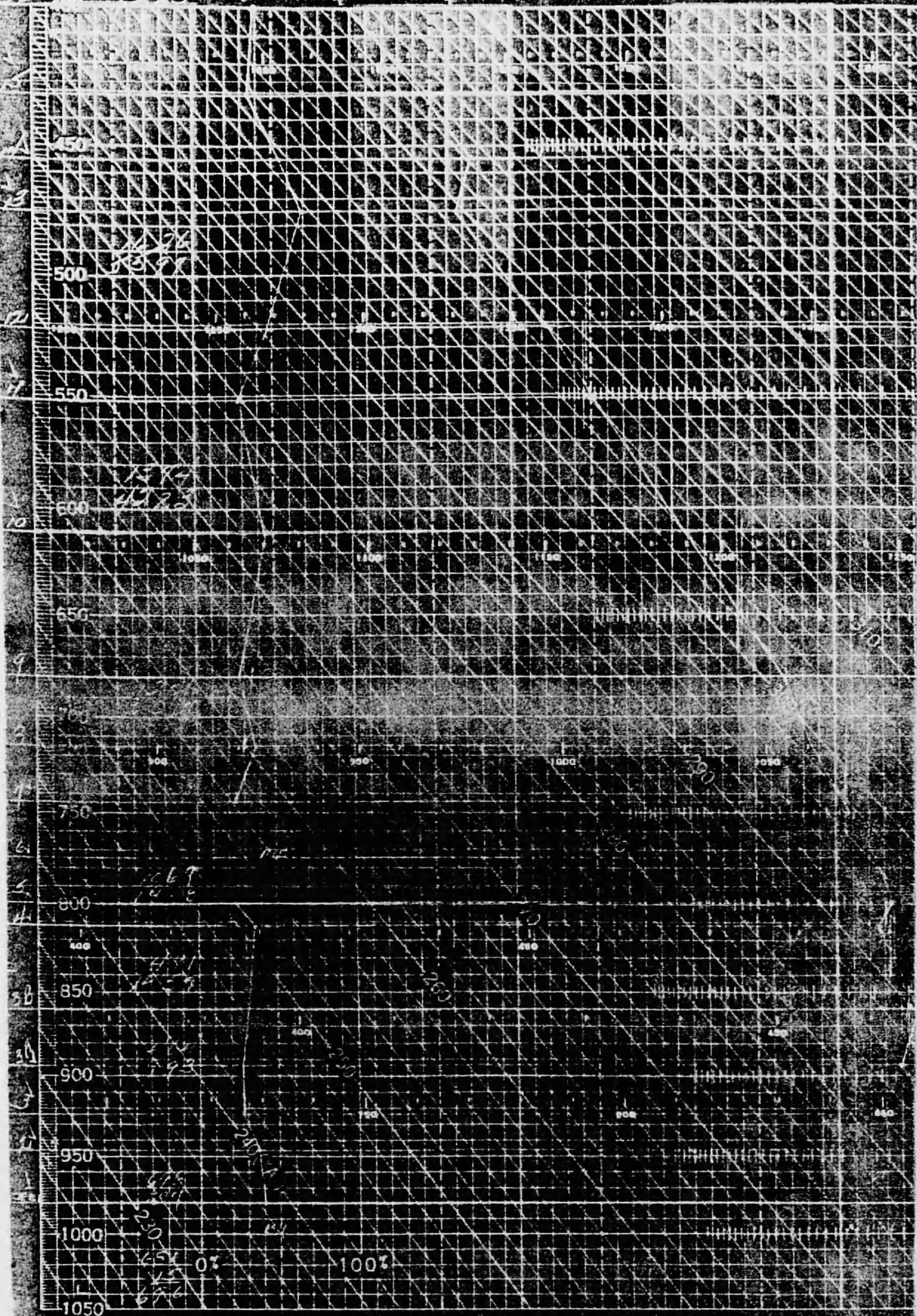
DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED OR WBAN-33 OR PUNCHED CARD	
Q (mb)	H (gpm)	T
T _{db} T _{dc}	W (gpm)	"D.P.
Q (mb)	D (16 gpm)	W (gpm)

Pdb—Pressure height
T—Temperature °C
W—Relative humidity
Height scale in gpm

TEMPERATURE				RELATIVE HUMIDITY			
Time	Obs	Red	Wind	Obs	Red	Obs	Red
1050	10.3	20.5	21.5	81.6		77	

ADIABATIC CHART
WEATHER

9 Km. 40° 8 Km. 30° 7 Km. 20° 6 Km. 10° 5 Km. 0° (C)



13840

40° 30° 20° 10° 0° (C)

8 Km. 7 Km. 6 Km. 5 Km.

Station	
Lat	Long

DATA AS TRANSMITTED		O. P. TO 0.1°C. OTHER DATA AS ENTERED ON WSAW-33 OR PUNCHED CARD	
Q (mm)	H (gpm)	T	
TTA/Tc	RM	D. P.	
Q (mm)	D (16 pts.)	S (m.p.s.)	

PH - Pressure
T - Temperature
RH - Relative Humidity
Height scale in ft.

CHART NO. 425/UM
1 AUG 1951 - SIG C STOCK NO. 7A507-425

REPLACES CHART NO. 425/UM, 1 SEP 49, WHICH MAY BE USED

Grid Chart	Lat/Lon	TEMPERATURE		SALINITY		DENSITY		Wind	Wave
		Observed	Computed	Observed	Computed	Observed	Computed		
SIGNIFICANT LEVELS									
00	1		9.6		8.0			1.3	
11	2	9.5	9.6	5.1	5.6	7.0	7.7	3.3	
22	3	1.0	6.4	5.5	6.0	7.5	7.7	1.5	
41	4	20.0	9.1	2.7	3.6	1.7	7.5	1.3	
53	5	21.0	7.4	5.0	3.5	5.0	5.2	1.3	
13	6	23.0	7.4	5.0	2.5	1.3	1.0	1.0	
77	7	25.6	7.4	5.0	0.4	5.0	2.7	1.3	
	8	28.0	7.5	4.3	1.5	1.7	3.7	1.4	
	9	31.0	6.8	4.1	3.1	6.6	3.7	1.5	
17	10	37.3	6.1	4.5	9.1	2.0	4.1	1.9	
49	11	43.0	5.2	5.1	14.9	6.0	2.3	2.9	
	12	46.0	5.2	3.6	17.8	2.9	4.8	2.6	
20	13	51.0	4.7	3.4	23.5	4.4	6.9	2.5	
11	14	53.4	4.5	3.1	24.5	18.0	5.5	3.0	
22	15	56.0	4.3	3.0	25.5	7.3	2.4	3.0	
	16	54.9	4.0	2.5	3.0	9.0	3.9	3.5	
	17								
33	18	12.5	8.9	5.5	4.0	5.0	5.7	12.2	
30	19	16.0	8.6	5.1	5.0	13.6	3.1	10.6	
	20								

CODED MESSAGE FOR TRANSMISSION

570 21043 85405 18617 03513
 70990 52465 02924 5036 744
 03245 40370 80192 03302 55555
 00910 08545 11946 1251 72221
 16612 37101 05618 57101 05618
 44910 12305 77101 05618 57101
 59691 44505 77101 05618 57101
 84065 77101 37101 75866 18
 43354 04631

570	21043	85405
70990	52465	02924
03245	40370	80192

570	21043
70	X
44	0.35

570	21043	85405
70990	52465	02924
03245	320	0.23

11.0

4900	X
44	0.25

1223	1.3
44	0.21

3620	X
44	0.17

70990	52465	02924
03245	40370	80192
00910	08545	11946

21043	85405
44	0.07

1948	X
23	0.07

0410	10.11	0046
0410	32	10.6
02513	44	0.07

1948	0043
27	X
44	0.04

05618	0054
38	X
04	0.04

0410	10.11	0046
0410	32	10.6
02513	44	0.07

PRESSURE		
0410	10.11	0046
0410	32	10.6
02513	44	0.07

270 SURFACE

DATE AND RELEASE TIME

	Year	Month	Day	Time
15	56	Nov	5	1600
027	56	Nov	5	2100
Registration No	51017	Accession No	20	

A. F. STOCK NO. 2600-701-636-510

AD Stanley

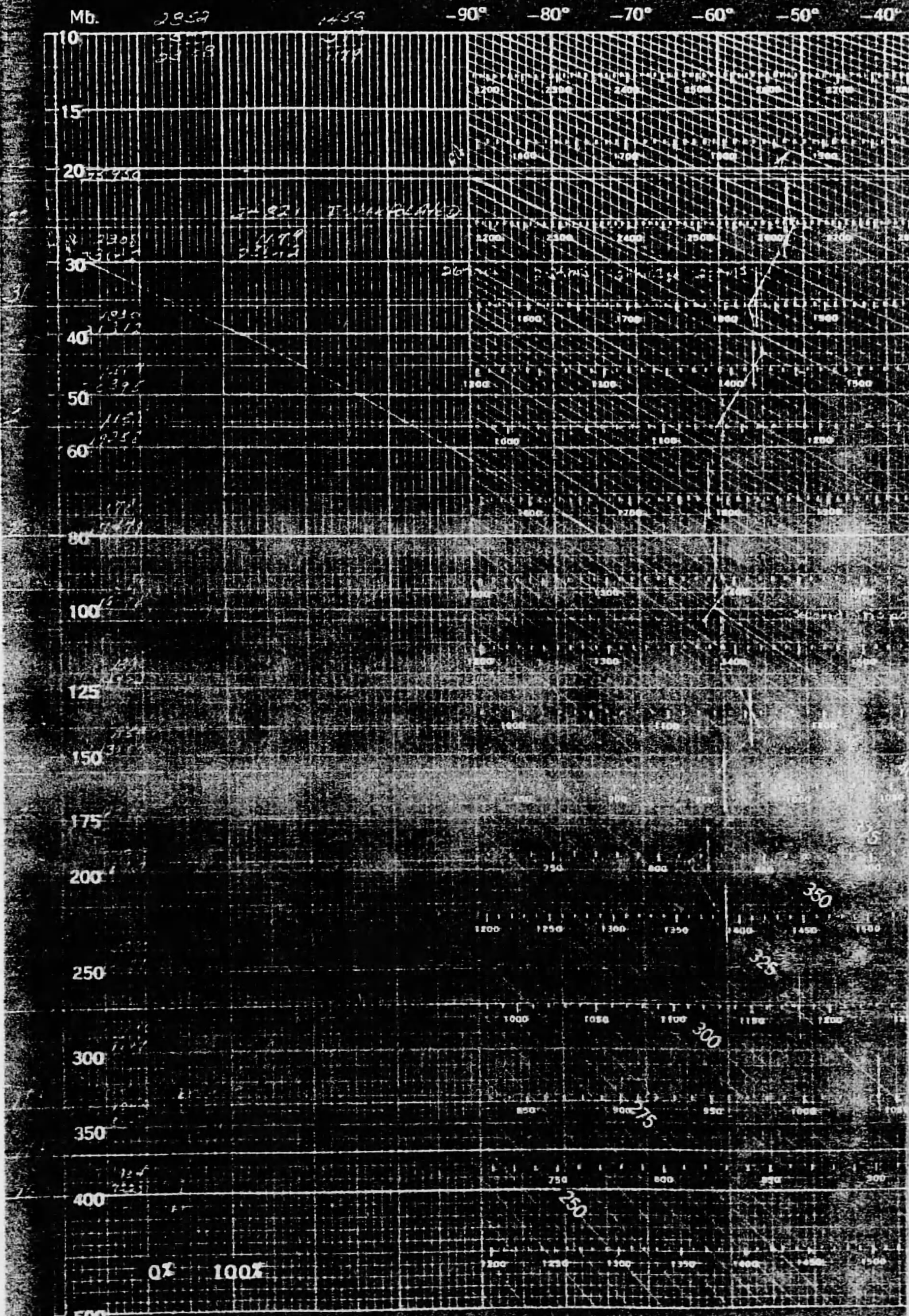
H. L. 200 1/30

1st Release

65617
15817
8/13

ADIABATIC CHART

WEAN-31B



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

Station	WRIGHT PATTERSON AFB.	
Lat	39° 52' N	84° 07' W

DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED ON WEAN-33 OR PUNCHED CARD	
	H (mm)	T
	°RH	°D.P.
	Q (16 pts.)	Wind S (m.p.s.)

PH - Pressure Height
T - Temperature °C
RH - Relative Humidity
Height scale in feet

10°
4 Km

Chart	Level	PRESSURE		TEMPERATURE		WIND		REMARKS
		Bar	mm	°C	°F	Dir	Spd	
10	1	77.7		3.5		5.1	5.0	
11	2	8.4		7.7		3.9	3.4	
12	3	86.9	56.9	6.4		3.6	7.5	
13	4	17.1	14.2	5.9		4.9	17.5	
14	5	18.9	83.0	56.0		6.4	5.1	23
15	6	2.4	75.6	53.4		2.5	12.0	32
16	7	2.9	70.9	51.2		0.3	5.0	25
17	8	32.4	66.4	48.0		4.6	11.0	11.3
18	9	35.0	63.5	47.0		6.0	7.0	2.6
19	10	39.4	57.8	43.5		10.5	36.4	5.6
20	11	50.0	46.4	35.0		21.4	56.6	8.1
21	12	50.1	47.9	35.1		20.1	57.6	8.1
22	13	59.5	40.0	28.7		29.5	29.5	6.7
23	14							
24	15							
25	16							
26	17							
27	18							
28	19							
29	20							

CONSTANT PRESSURE DATA

57.6	7.7	3.5
17.1	6.7	3.4
86.9	5.2	7.5

64.20	7.3.9
7.6	X
1.4	2.3.9

54.3	5.6.17	1.9.7
14.7.2.9	7.7	7.2.7
51.5.9	4	7.3.0

4.0.2.0	14.7
6.4	X
1.4	2.3.9

4.2.7	
4.7	X
7.4	2.1

1.7.0	15.7
1.5	X
4.5	2.1

4.9.1	3.0.2.9	1.5.1
5.1.9.1	7.1	
0.3.0.0	3	1.5

2.5.0.0	5.2.0
3.1	X
1.3	6.1.3

1.4.5.3	0.0.1.7
1.7	X
1.5	0.9

4.7.8	1.5.8	1.5.2
5.2.2	1.6	7.0
0.2.4.1.2	1.4	1.0.6

1.7.1	1.5.6.7
7.7	X
4.0	1.0

6.5.7	1.7.6
1.7	X
1.7	1.0.9

4.1	1.5.1	1.0
1.7	1.0	1.0
1.7	1.0	1.0

PRESSURE	
0.97.9	1.7.7
3.5.1	5.4
0	1.3

13.5 SURFACE

CODED MESSAGE FOR TRANSMISSION

570 57041 5476 5052 2412
70844 51991 23030 50848 6972.9
03154 40376 73816 9170 2000
10479 03054 11712 075.2 2.5 81.9
11525 20072 04576 11870 06635
05705 06550 06701 04013 01535
06720 08501 08870 04011 39116
13049 11
879484 71736 00479 70937

PUNCHED CARD No. 1

PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

10°
4 Km

20°
3 Km

30°
2 Km

40°
1 Km

50°
M.S.L.

Drawn by J.P. HINE a/c
Checked by DE WOLLEN
Inspected by 1.1.1.1

DATE AND RELEASE TIME

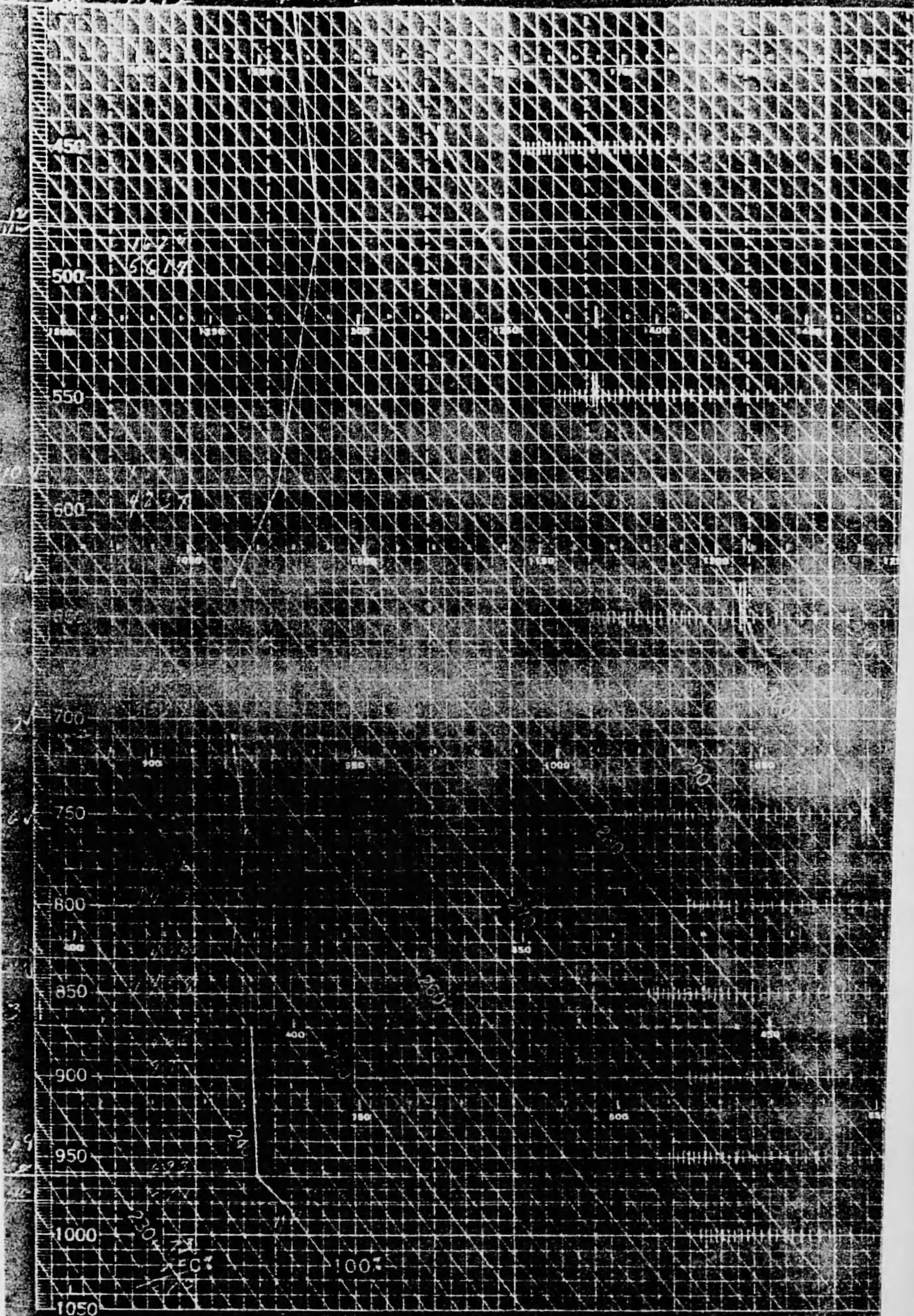
Year	Month	Day	Time
75	Nov	12	6
2.7.	14	6	7

Radionote No 50860 Macrom No 21

TEMPERATURE				RELATIVE HUMIDITY			
Time	Observed	Depth	Water	Observed	Relative	Humidity	Time
1200	65.1	12.5	20.0°C	90.0			12

ADIABATIC CHART
WEATHER

9 Km -40° 8 Km -30° 7 Km -20° 6 Km -10° 5 Km 0°(C)



-40° -30° -20° -10° 0°(C)
9 Km 8 Km 7 Km 6 Km 5 Km

13840

Station	
Lat.	Long.

DATA AS TRANSMITTED	O. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
OQ bar	H (gpm)	T
TITATP	RH	O. P.
Odwp	D (16 pm)	S (m.p.h.)

CHART NO. 425/UM
1 AUG 1951 - SIG C STOCK NO. 7A507-425

REPLACES CHART ML-425/UM, 1 SEP 49, WHICH MAY BE USED

ADIABATIC CHART

WBAN-31B

Mb.

-90° -80° -70° -60° -50° -40°

10

15

20

30

40

50

60

80

100

125

150

175

200

250

300

350

400

500

0%

100%

-90° -80° -70° -60° -50° -40°

24 Km.

23 Km.

22 Km.

21 Km.

20 Km.

19 Km.

18 Km.

17 Km.

16 Km.

15 Km.

14

Station	SUN AF.B.7	
Lat.	52°N	Long. 84°07'W

DATA AS TRANSMITTED		D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
Q ₁₀₀₀	W (gpm)	T	
T ₁₀₀₀	RH	D.P.	
Q ₀₀₀	Q (16 cts)	Wind	S (m.p.s.)

PS—Pressure-Height
T—Temperature °C
RH—Relative Humidity
Height scale in proper

*Omitted above 200 mbs.

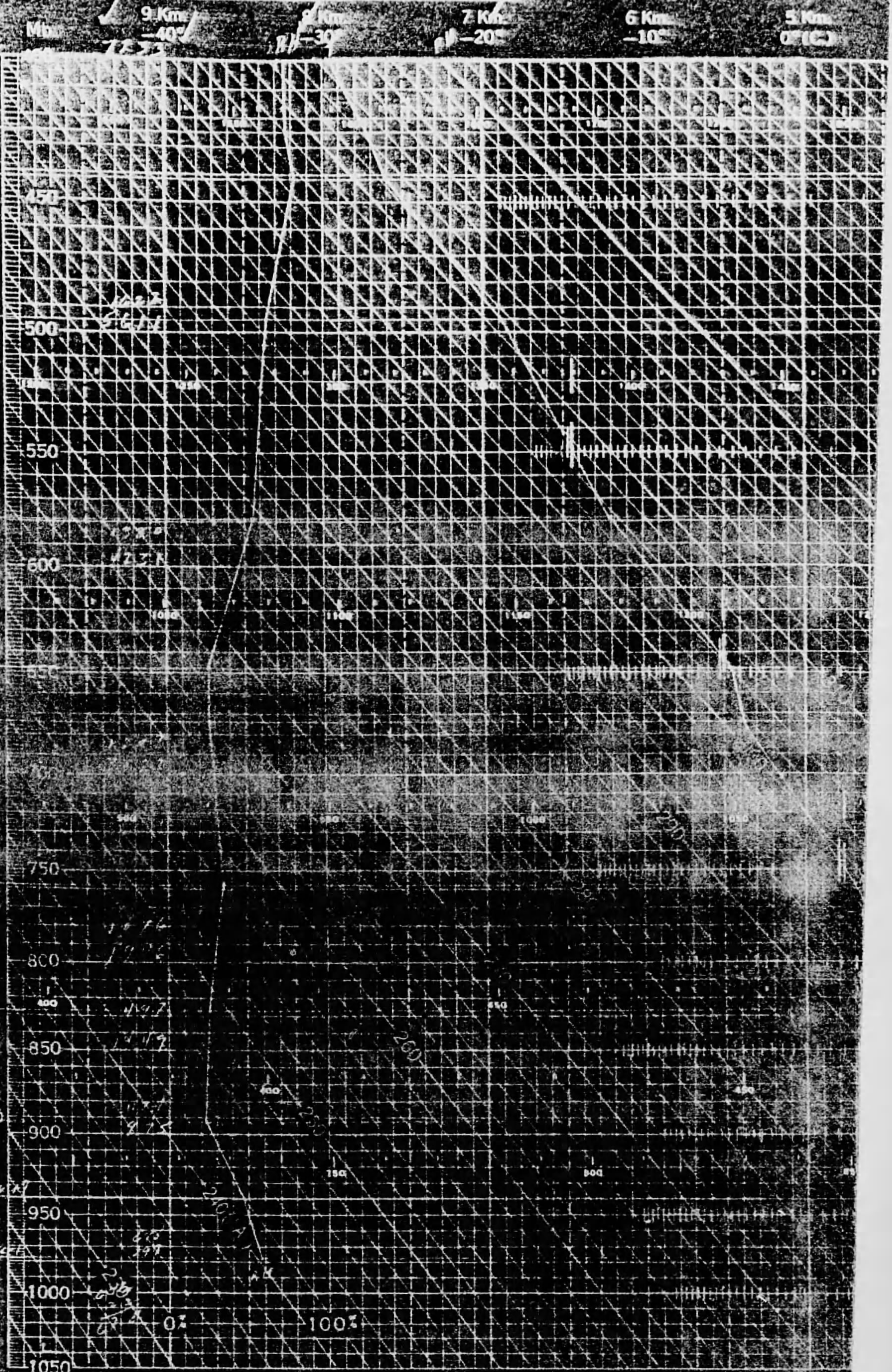
CHART ML-426/UM
1 AUG 1951 - SIG C STOCK NO. 74507-426

REPLACES CHART ML-426/UM, 1 SEP 49, WHICH MAY BE USED

U. S. GOVERNMENT

TEMPERATURE				RELATIVE HUMIDITY			
Obs	Red	Wet	Dew	Wet	Wet	Wet	Wet
12.5	11.9	10.5	7.2	77			75

ADIABATIC CHART
WMO-304



40° 30° 20° 10° 0° (C)
9 Km 8 Km 7 Km 6 Km 5 Km

Station	
Lat	Long

DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
OO bbb	W (g/m ³)	T
TTT ₂ T ₂ T ₂	RH	O. P.
OOdd	O (10 pps)	S (m p.s.)

