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.

ATIC FORM 329 (REV 26 SEP 52)

OFFICIAL FILE COPY
4E

AFCIN-4E /Maj Friend/vw/69216

25 APR 1961

UFO Sighting (5 January 1956)

The [redacted], Inc.
ATTN: Mr. [redacted]
Troy, Ohio

Dear Mr. Shertle

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 propeller discs. 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 great 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 qualities.

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

for L J Stutson
PHILIP G. EVANS
Colonel, USAF
Deputy for Science and Components
25 Apr 61

COORDINATION: AFCIN-4E Robert J Friend Maj DATE 24 April 61
Maj Robert J. Friend

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~~ Franklin 1-4942

Dear Mr. [redacted],

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

The flight was made on January 5, 1956. 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

Dark time at place
about ten times and lasted
for about an hour.

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

The flash like up the
sky. I believe there the
reported the aircraft 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 or photography.
It had a halo effect might make
the light something like looking
into a light with a highly polished
reflector.

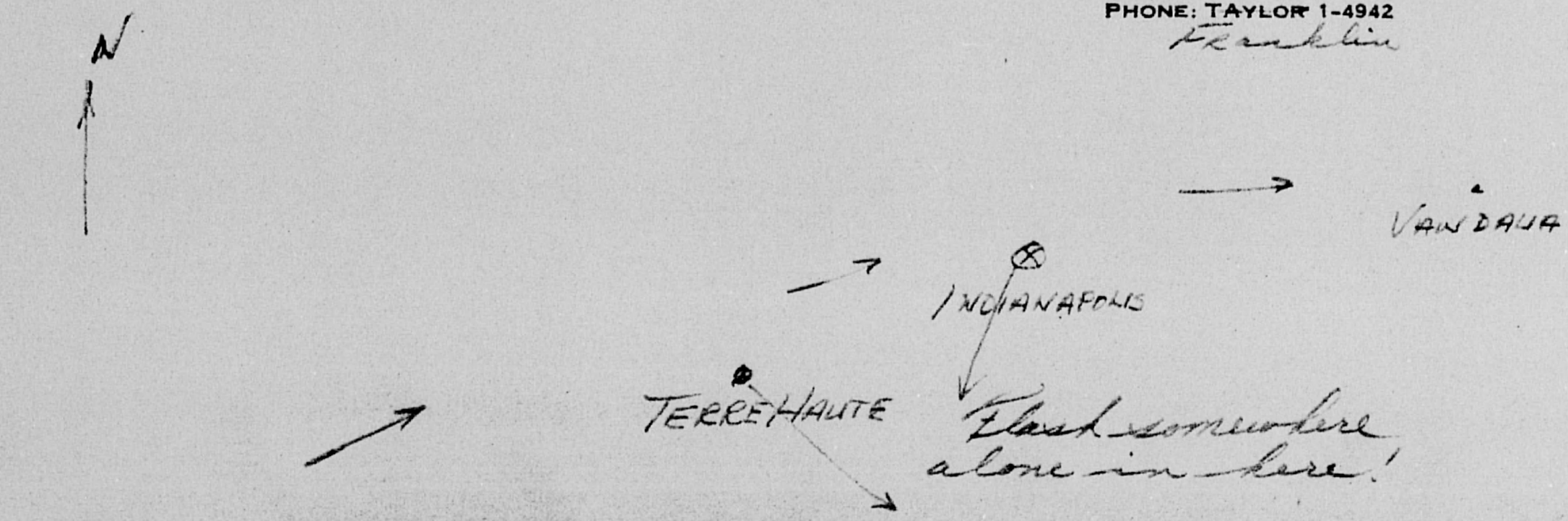
TELEPHONE 21266



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



I'm 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 coming outside of Chicago reported seeing that he saw a flash in the same direction.

I hope the weather
is clear. If there are any
further questions let me
know.

Id like to hear more
about this if possible.

Sincerely,

[redacted]

[redacted] 6/00304

Multi

33

THE BROWN-BRIDGE MILLS, INC.

TROY, OHIO

OFFICE OF [redacted]

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,

[redacted]

[redacted]/g
encl

(84 +84 18

THE BROWN-BRIDGE MILLS, INC.

TROY, OHIO

[redacted] 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,

[redacted]

[redacted]g
encl

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 (Day) Jan. (Month) 1956 (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) Indianapolis (City or Town) Indiana (State or Country)

Additional remarks: Between Terre Haute and Indianapolis about Clayton Marker on airway west of Indianapolis

5. Estimate how long you saw the object. _____ (Hours) 5 to 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

ATIC FORM NO. 164 (13 OCT 54)

NCL #12

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? See g.	(Yes)	No	Don't Know
f. Change shape?	Yes	(No)	Don't Know
g. Flicker, throb, or pulsate? Regularly on and 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, than 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	(Yes)	No	e. Binoculars	Yes	(No)
b. Sun glasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	Yes	(No)	g. Theodolite	Yes	(No)
d. Window glass	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 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 headlight 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
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 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
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
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
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
h. Northwest

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

a. North
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
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).

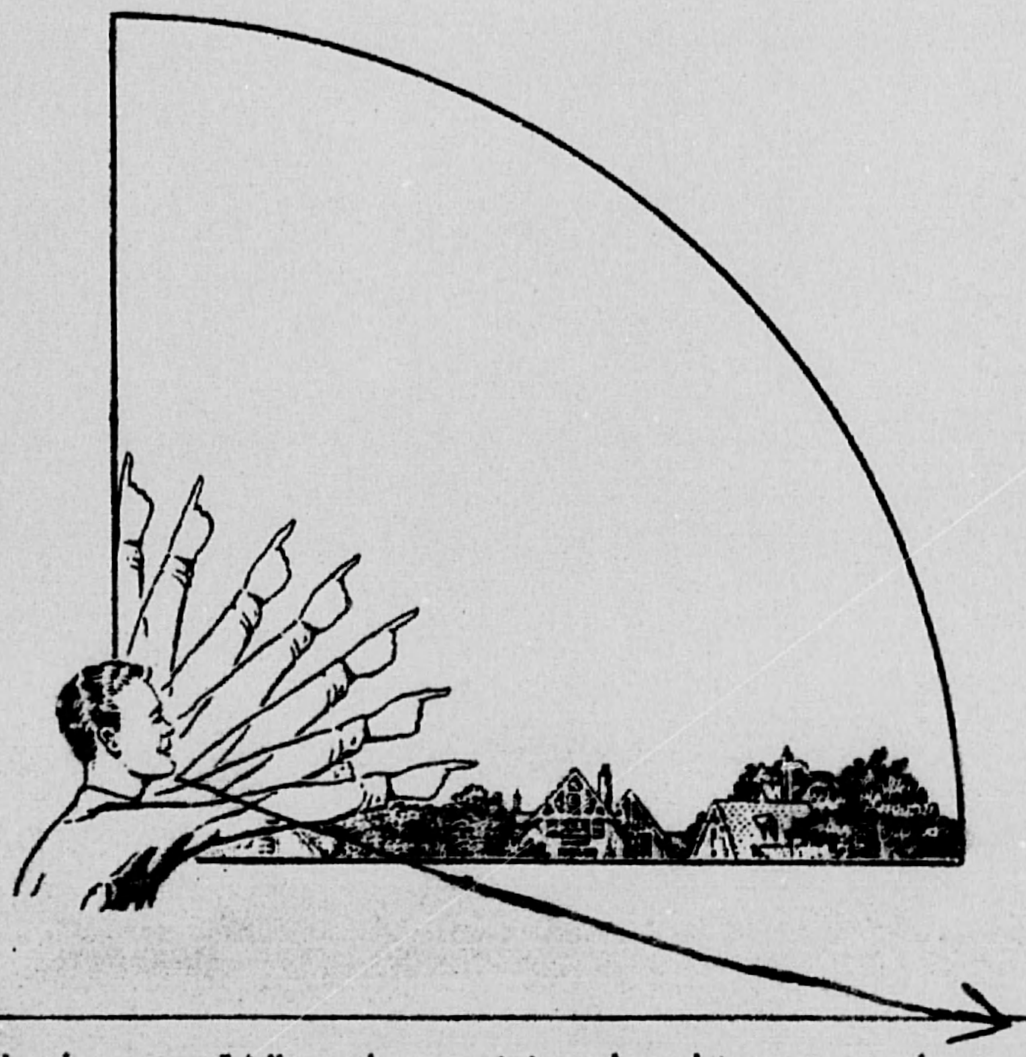
31.1 When it first appeared: I was on course of 70° - object at right angles to aircraft on right-guess at 160°

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

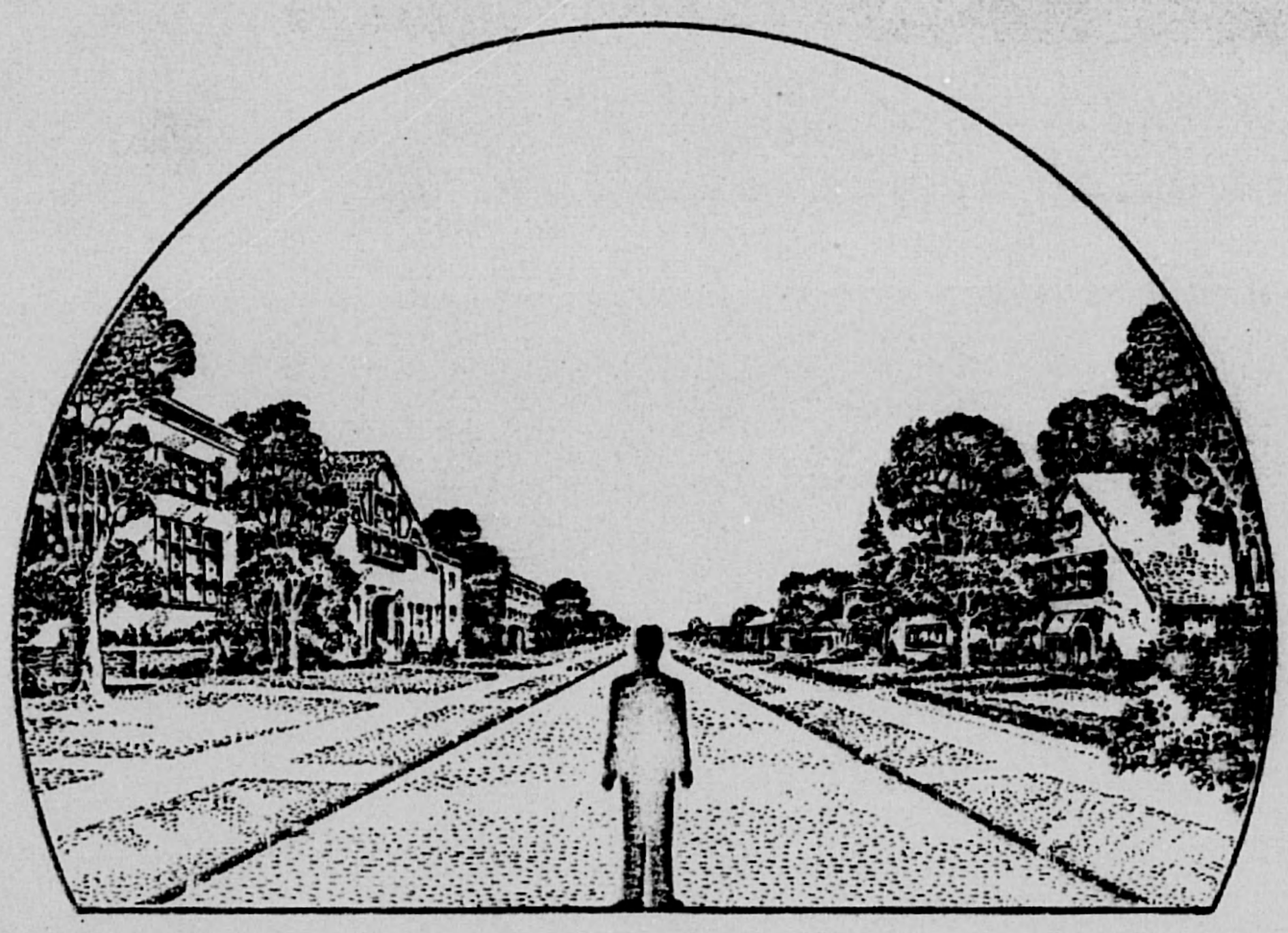
31.2 When it disappeared:

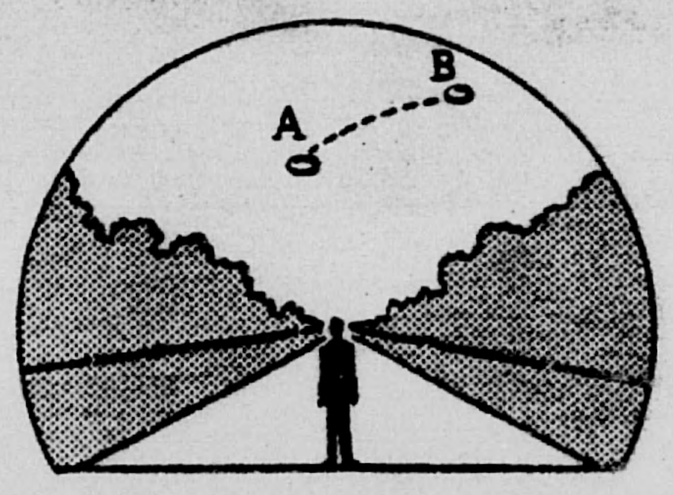
a. From true North _____ degrees.
b. From horizon _____ degrees.

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.
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)

IF you answered YES, then what speed would you estimate? same as mine 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 [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 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 [redacted]
(Please Print)

SIGNATURE _____

DATE 8 February, 1956

(Do Not Write in This Space)

CODE:

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 - <u>after</u> the light went out, or disappeared, I did <u>not</u> 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 (Day) Jan (Month) 1956 (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) Indianapolis (City or Town) Ind. (State or Country)

Additional remarks: Between Terre Haute & Indpls. about Clayton Marker on airway west of Indpls

5. Estimate how long you saw the object. _____ (Hours) 5 6 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

ATIC FORM NO. 164 (13 OCT 54)

ENCL #1

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? See 9.	(Yes)	No	Don't Know
f. Change shape?	Yes	(No)	Don't Know
g. Flicker, throb, or pulsate? 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, than 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	(Yes)	No	e. Binoculars	Yes	(No)
b. Sun glasses	Yes	(No)	f. Telescope	Yes	(No)
c. Windshield	Yes	(No)	g. Theodolite	Yes	(No)
d. Window glass	Yes	(No)	h. Other Plexiglas of aircraft		

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

a. Sound No sound as 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 & 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, as definite as a auto head light blinding your eyes as definite as

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 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
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
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
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
h. Northwest

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

a. North
b. Northeast
c. East
d. Southeast
e. South
f. Southwest
g. West
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).

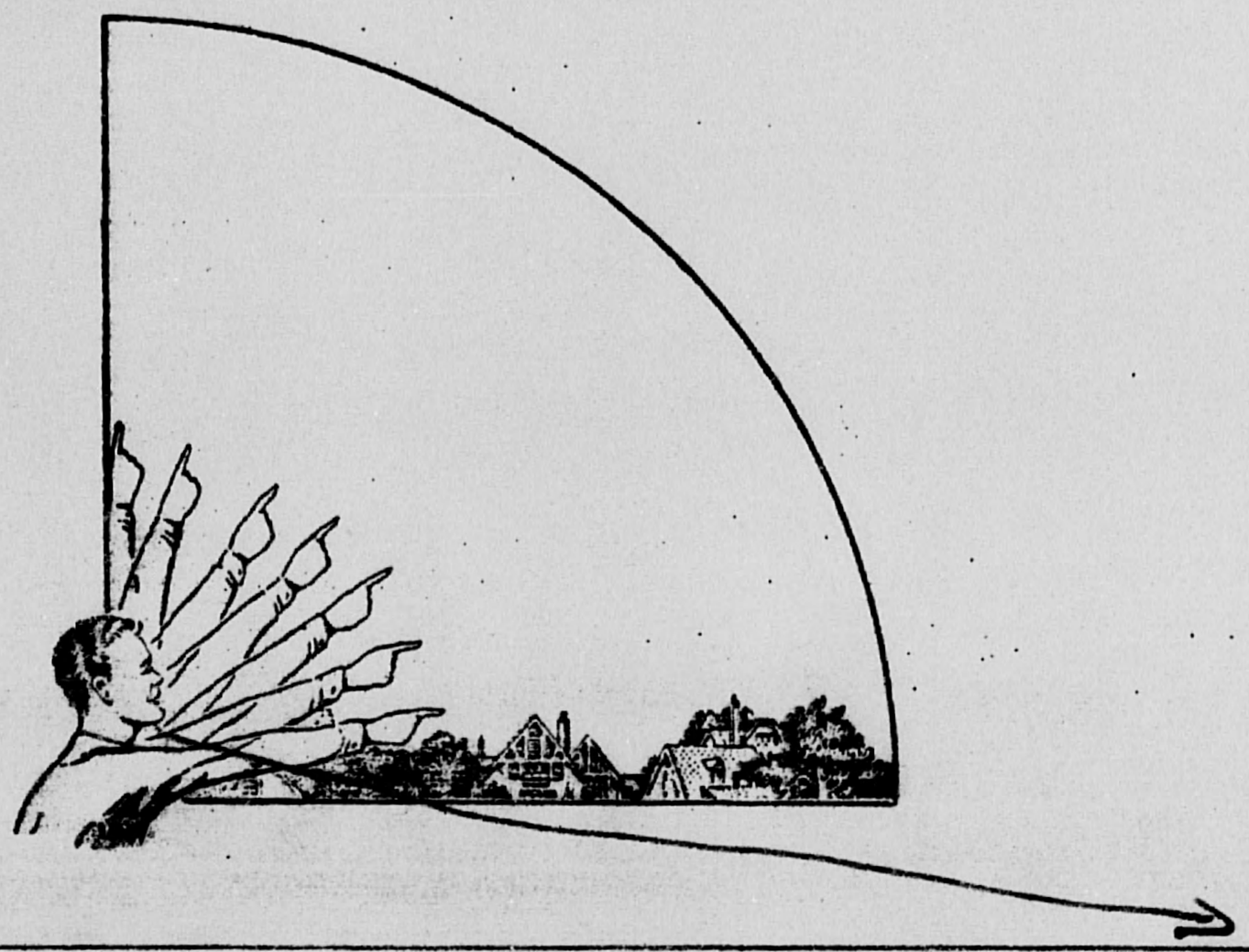
31.1 When it first appeared: I was on course of 70° - object at right angle & aircraft on right - guess at 160°

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

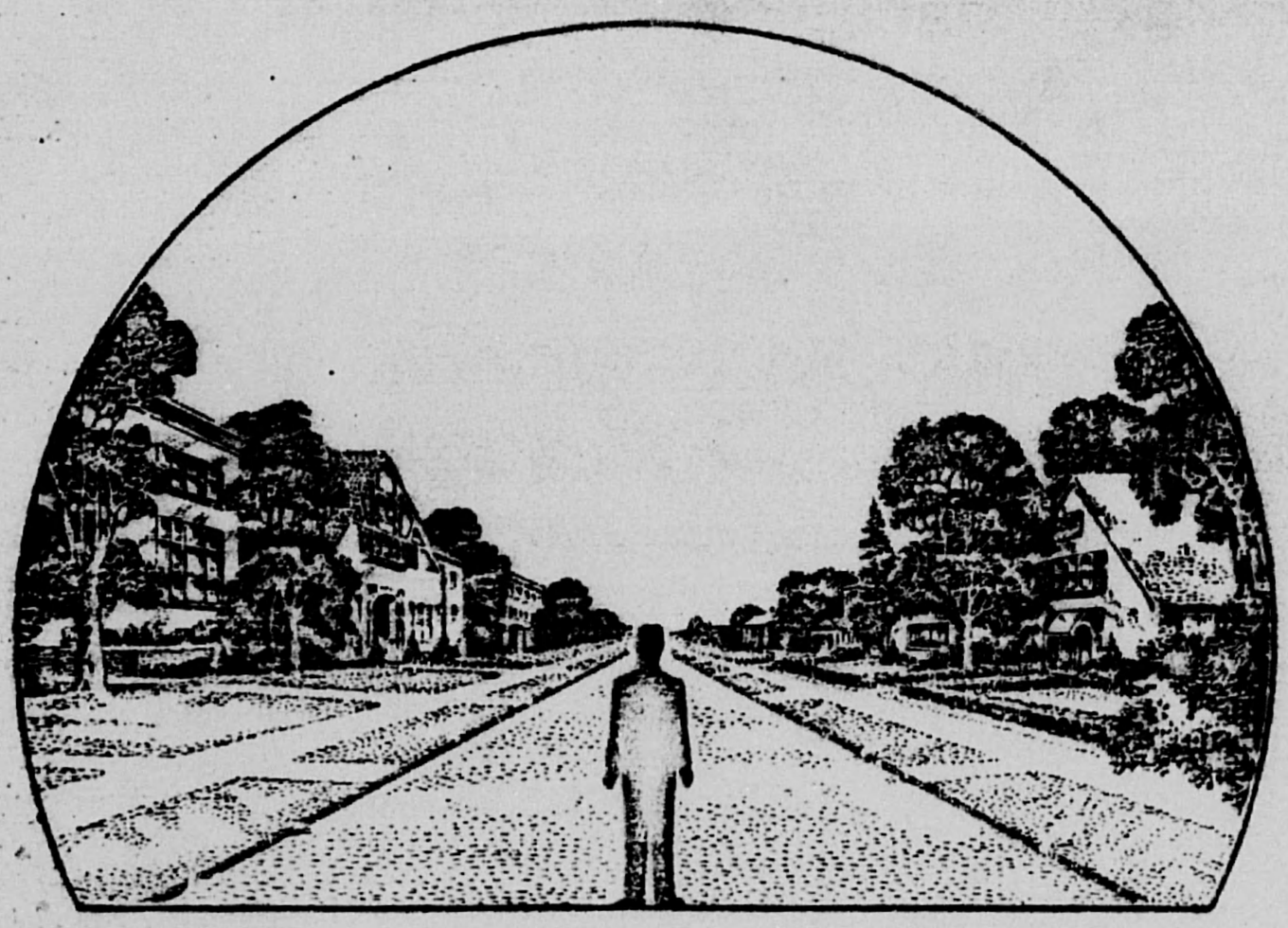
31.2 When it disappeared:

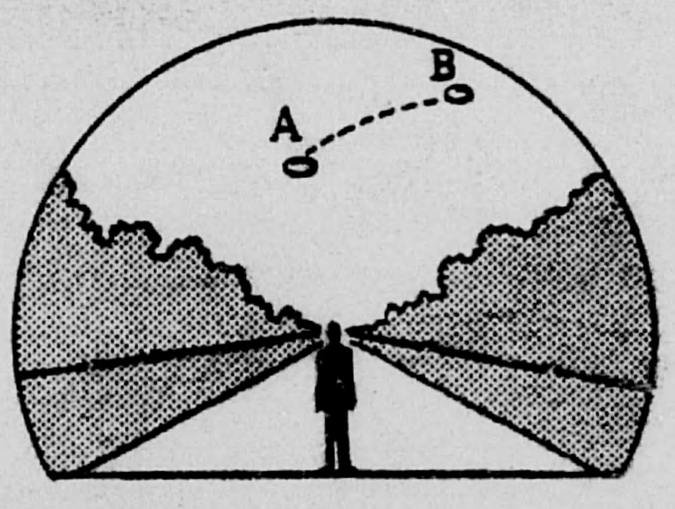
a. From true North _____ degrees.
b. From horizon _____ degrees.

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 on this answer

6 Day | Feb Month | 1956 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
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 strip mosks 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? 150 m.p.h.

40. Do you think you can estimate how far away from you the object was? At first thought I 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 [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 [redacted] (Please Print)

SIGNATURE [redacted]

DATE 8th Feb, 1956

(Do Not Write in This Space)

CODE:

I left St Louis Lambert Field at dusk Jan 5. with my passenger [redacted], on a St. Louis Saleman. We climbed VFR & 5000' and flew airways using Omni Range stations. Ran refuel about 180 MPH. At about Terre Haute [redacted] (an ex air force man) said "Do you believe in flying saucers?" I said "No" 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 aircraft 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 & pledge by - no horizon. But seems on distance

was some what south and west of Indpls
Weir took airport. I called Indpls radio &
asked what it was & light went off. While
C & D 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 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 observing
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

[redacted]
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,

[redacted]

[redacted]

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 5 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 ATIC, we will attempt to determine the probable cause of the sighting.

The ATIC address follows:

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

Sincerely

FRED O. HUNT
Colonel, USAF
Deputy for Science and Components

1 Atch
ATIC Form 10

COORDINATION: AFCIN-4E Robert J. Friend Maj DATE 12 Apr 61
Maj Robert J. Friend

	Code Check	Level No.	PRESSURE: Contact	PRESSURE: mb.	TEMPERATURE: Ordinate	TEMPERATURE: Ascent (°C)	TEMPERATURE: Correction	TEMPERATURE: Corrected	RELATIVE HUMIDITY: Ordinate	RELATIVE HUMIDITY: % Including Correction of %	DEW POINT: °C	REMARKS
			SIGNIFICANT LEVELS									

ADIABATIC CHART

WBAN-31B

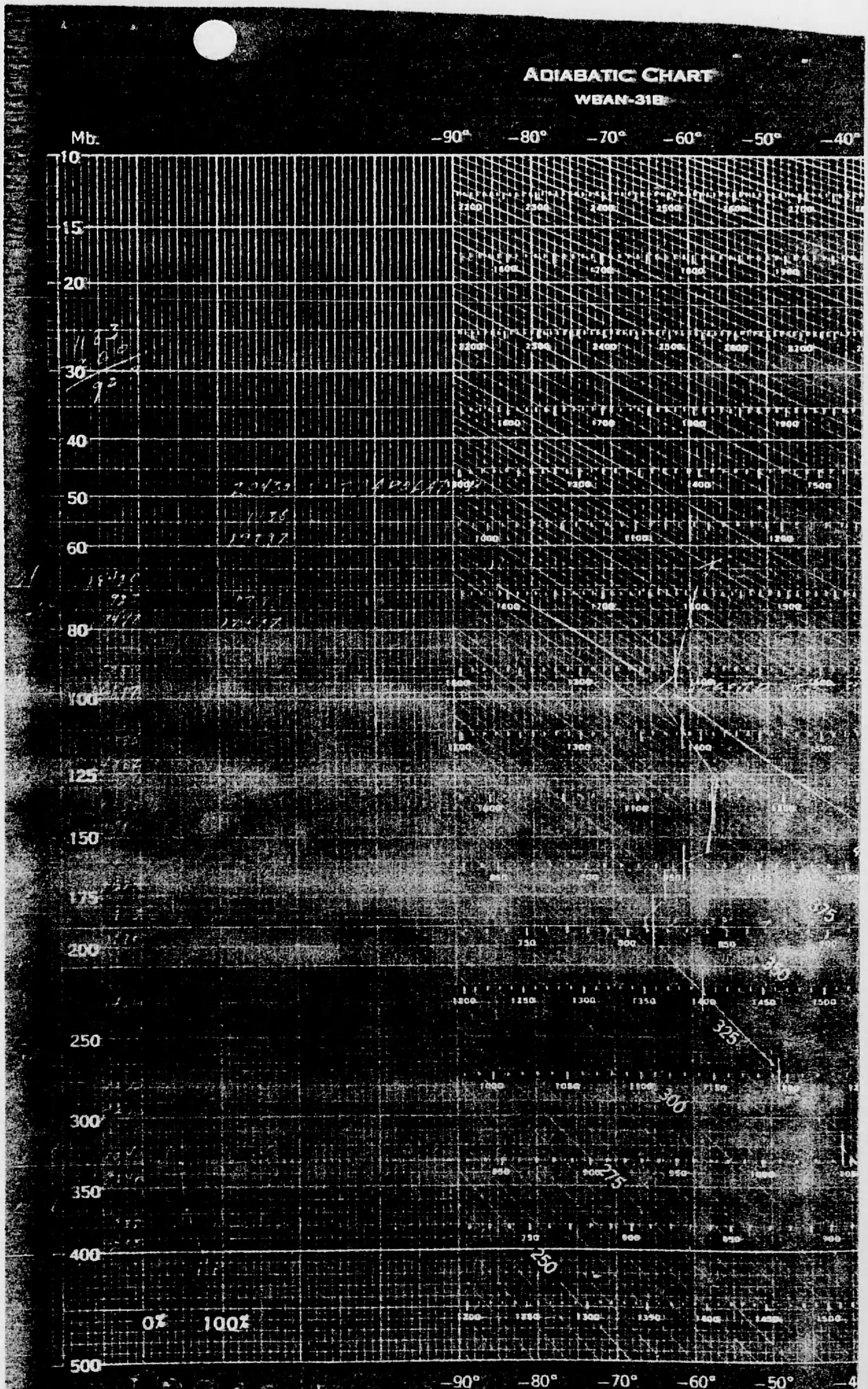
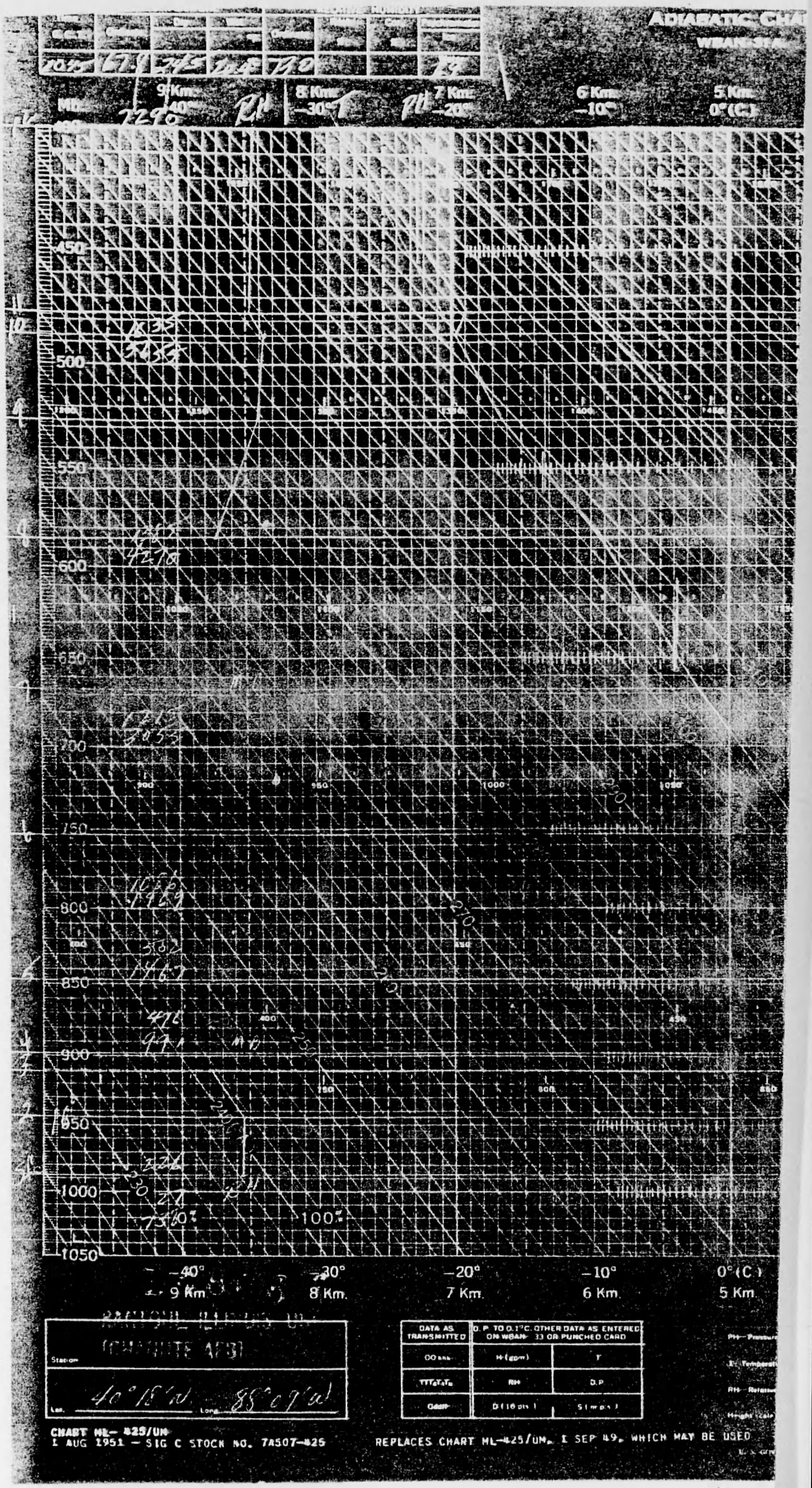
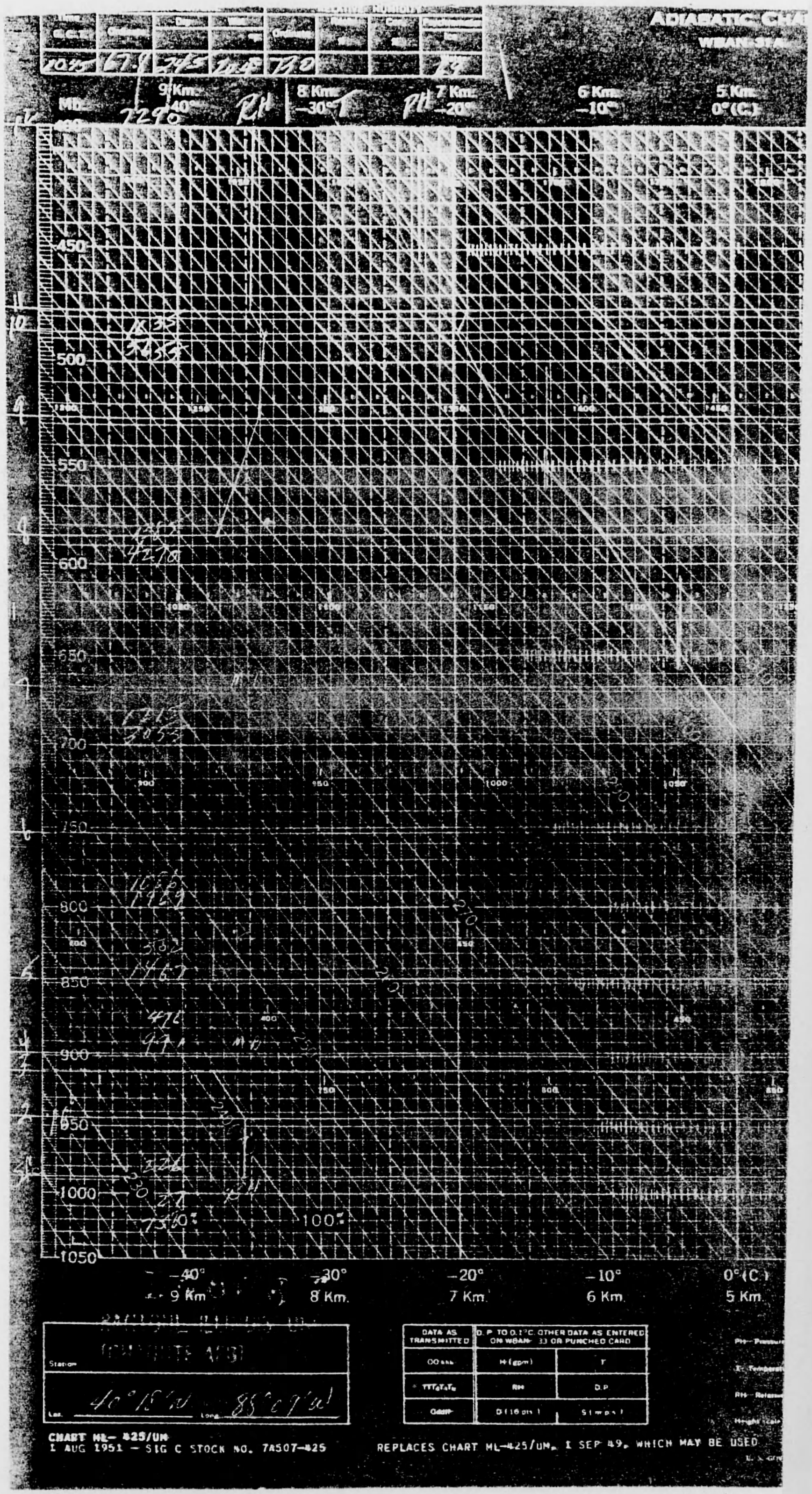
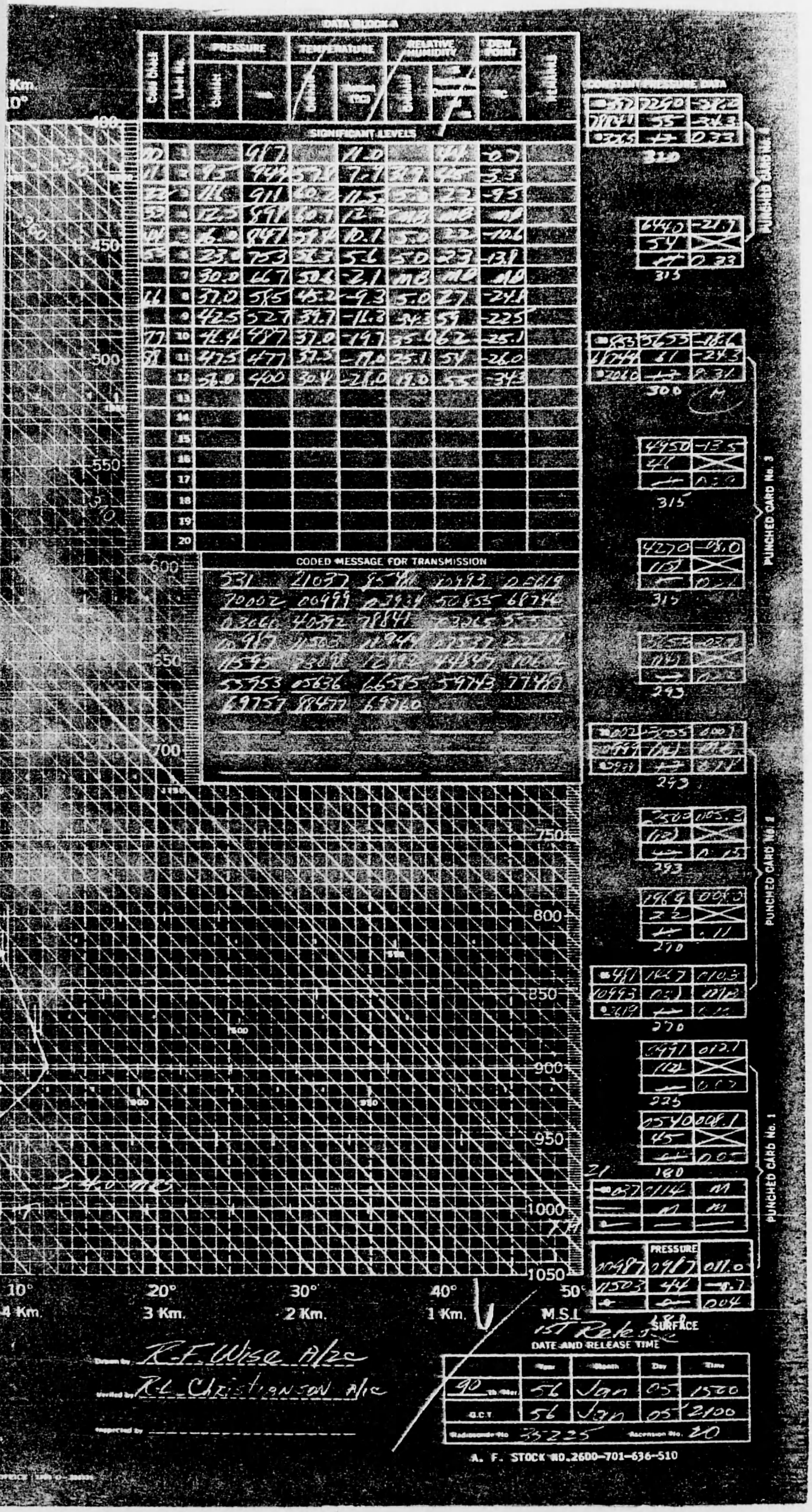


CHART ML-426/UM
1 AUG 1951 — SIG C STOCK NO. 7A507-426

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


ADIABATIC CHART
WBAN-33
9 Km
8 Km
7 Km
6 Km
5 Km
−40°
−30°
−20°
−10°
0°(C)
450
500
550
600
650
700
750
800
850
900
950
1000
1050
100%
Station
Lat.
Long.
DATA AS TRANSMITTED
O. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN 33 OR PUNCHED CARD
CHART ML- 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-33
9 Km
−40°
8 Km
−30°
7 Km
−20°
6 Km
−10°
5 Km
0°(C)
450
500
550
600
650
700
750
800
850
900
950
1000
1050
100%
CHART ML- 425/UM
1 AUG 1951 — SIG C STOCK NO. 7A507-425
REPLACES CHART ML-425/UM, 1 SEP 49, WHICH MAY BE USED


PRESSURE
TEMPERATURE
RELATIVE HUMIDITY
DEW POINT
SIGNIFICANT LEVELS
CODED MESSAGE FOR TRANSMISSION
PUNCHED CARD No. 3
PUNCHED CARD No. 2
PUNCHED CARD No. 1
10° 20° 30° 40° 50°
4 Km. 3 Km. 2 Km. 1 Km. M.S.L.
Data by R.E. Wise A/2c
Verified by R.L. Christianson A/1c
Inspected by
DATE AND RELEASE TIME
Year Month Day Time
90 th Mer. 56 Jan 05 1520
G.C.T. 56 Jan 05 2100
Radiosonde No. 35225 Ascension No. 20
A. F. STOCK NO. 2600-701-636-510

Code Check	Level No.	PRESSURE Constant	PRESSURE mb	TEMPERATURE Ordinate	TEMPERATURE Ascent (°C)	TEMPERATURE Correction	TEMPERATURE Corrected	RELATIVE HUMIDITY Ordinate	RELATIVE HUMIDITY % Including Correction of %	DEW POINT °C	REMARKS
SIGNIFICANT LEVELS											
99	13	59.5	373	-26.8	-32.9			12.6	52	-39.4	
	14	71.0	297	18.0	-45.1						
	15	77.0	252	13.4	-53.8						
	16	86.4	200	8.7	-64.0						
22	17	92.0	175	7.1	-61.2						Trop
11	18	94.0	167	7.3	-59.8						
22	19	95.0	163	9.3	-62.5						
	20	98.5	149	11.6	-57.5						
33	21	105.0	125	9.7	-61.6						
44	22	109.0	112	11.0	-58.5						
	23	114.0	96	9.0	-63.3						
	24	116.0	87	10.5	-59.9						
	25	119.7	80	10.0	-61.0						

CODED MESSAGE FOR TRANSMISSION

53121 30040 15990 03177 2[illegible]
04410 03194 20844 A20 08102
15411 07116 03153 10504 12060
03047 3553[illegible] [illegible] 8251 6[illegible]
[illegible]

SOLAR RADIATION CORRECTIONS FOR HIGH TEMPERATURE

1. [illegible] at terminations, if observed, 400 mb. and 200 mb.
2. Correction for TST
3. [illegible]
4. Difference between (3) and solar noon
5. Elevation angle of sun
6. Elapsed time from 200 mb. to terminating level.
7. Occasional rate

CONSTANT PRESSURE DATA

PUNCHED CARD No. 7

PUNCHED CARD No. 8

PUNCHED CARD No. 9

PUNCHED CARD No. 4

100 200 250 300 350 400 500

-30° -20° -10° 0° 10°(°C.)

13 Km. 12 Km. 11 Km. 10 Km. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.

R.E. Wise AFC

Plotted by R.L. Christianson A/1c

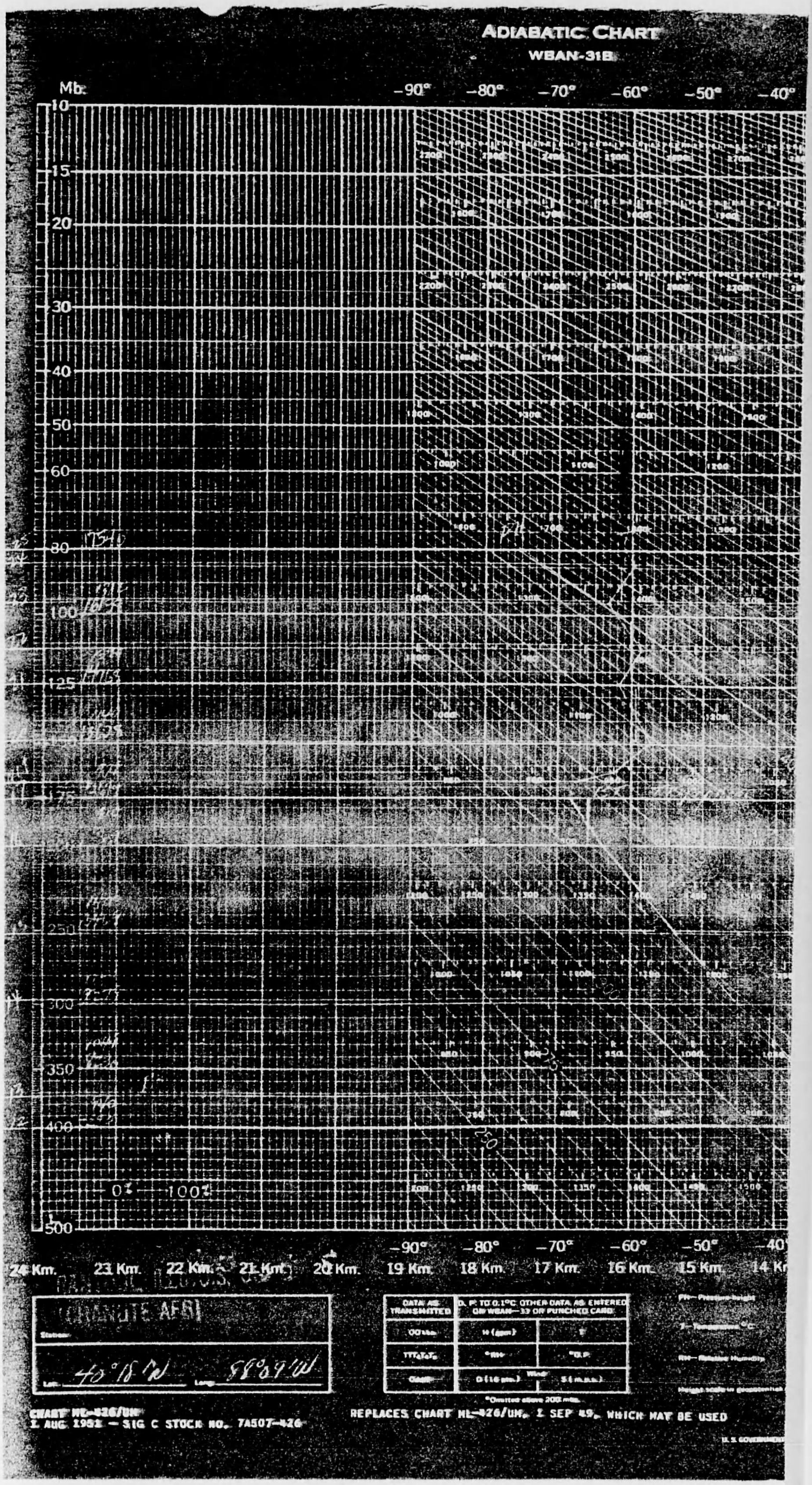
Checked by

DATE AND RELEASE TIME

	Year	Month	Day	Time
90	56	Jan	05	1500
G.C.T.	56	Jan	05	2100

Release No. 35225 Sequence No. 70

A. F. STOCK NO. 2600-701-636-515


ADIABATIC CHART
WBAN-31B
Mb.
−90°
−80°
−70°
−60°
−50°
−40°
10
15
20
30
40
50
60
80
100
125
150
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 Km.
40°18'N
58°07'W
DATA AS TRANSMITTED
T, P TO 0.1°C; OTHER DATA AS ENTERED ON WBAN—33 OR PUNCHED CARD
Wind
*Omitted above 200 mbs.
CHART HL-826/UM
1 AUG 1951 — SIG C STOCK NO. 7A507-826
REPLACES CHART HL-826/UM, 1 SEP 49, WHICH MAY BE USED
U. S. GOVERNMENT

ADIABATIC CHART

WBAN-31B

Mb.

−90° −80° −70° −60° −50° −40°

10
15
20
30
40
50
60
80
100
125
150
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

−90° −80° −70° −60° −50° −40°

Station: CORNWALLIS AFRI

Lat. 45°18'N Long. 58°04'W

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN—33 OR PUNCHED CARD	
00	H (gpm)	T
TTTdTdTd	*RH	*D.P.
dddff	D (16 pts.) Wind	S (m.p.h.)

*Omitted above 200 mb.

P— Pressure-height
T— Temperature °C
RH— Relative Humidity
Height relative to geopotential

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

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

U. S. GOVERNMENT

DATA BLOCK A

Quad Check	Level No.	PRESSURE Combined	PRESSURE	TEMPERATURE		RELATIVE HUMIDITY		DEW POINT	Significant Level Code

SIGNIFICANT LEVELS

	1		984		3.5			-2.9	
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								
	13								
	14								
	15								
	16								
	17								
	18								
	19								
	20								

CODED MESSAGE FOR TRANSMISSION

DOMINANT PRESSURE DATA

PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

	PRESSURE	

10° 4 Km. 20° 3 Km. 30° 2 Km. 40° 1 Km. 50° M.S.L.

SURFACE

Drawn by R. X. FELLOWS JR.

Verified by C. B. HALLMAN JR.

Inspected by

DATE AND RELEASE TIME 1ST FLIGHT

	Year	Month	Day	Time
GCT				

Radiosonde No 35097 Accession No 21

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

OFFICE : 1948 O-898834

ADIABATIC CHA

WEAKER

9 Km. −40

8 Km. −30

7 Km. −20

6 Km. −10

5 Km. 0 (C)

500

550

600

650

700

750

800

850

900

950

1000

1050

100%

−40° −30° −20° −10° 0° (C)

9 Km. 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	
QQ hhh	w (gm/kg)	T
TTTaTdTd	RH	D. P.
Odddff	D (16 pts)	S (m.p.s.)

T- Temperature

RH- Relative Hu

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

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

U. S. GOVERN

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											
99	12	630	352	239	-36.5			22.4	74	-39.5	
	13	700	302	16.0	-45.1						
	14	879	200	8.2	-65.0						
00	15	932	176	-6.7	-69.2	✓					
11	16	975	169	9.4	-62.0						
33	17	1005	146	10.6	-59.3						
33	18	1105	112	9.0	-62.9						

CODED MESSAGE FOR TRANSMISSION

[illegible]	30037	91994	0 5 5 9	21121
[illegible]	0 5 0 1 5	20551	11 5 5 5	0 5 1 2
[illegible]	0 5 9 9 5	23016	5 1 1 5	44 5 1 2
86 [illegible]		11616	15612	14639
12 5	10171	11319	11526	10190
11 2 4	30159			

SOLAR RADIATION CORRECTIONS FOR MAGS TEMPERATURE

1. Time, IST, of 200 mb. or [illegible] 400 mb. and 300 mb.	
2. Correction for EST	
3. Time, IST, Algebraic sum of (1) and (2)	
4. Difference between (3) and solar noon	
5. [illegible]	
6. Elapsed time from 200 mb. to terminating level	
7. Ascensional rate	

CONSTANT PRESSURE DATA

PUNCHED CARD No. 6

PUNCHED CARD No. 7

PUNCHED CARD No. 5

PUNCHED CARD No. 4

175 200 250 300 350 400 500

30° −20° −10° 0° 10° (°C.)

8 Km. 12 Km. 11 Km. 10 Km. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.

Drawn by D. T. HALLPIKE, Ed.

Verified by P. M. JELBERT, Ed.

DATE AND RELEASE TIME

	Year	Month	Day	Time
G.M.T.	1956	JAN	5	2100
G.C.T.	1956	JAN	6	0700

Reference No. 35097 Transmission No. 21

A. F. STOCK LTD. 2600-701-636-515

ADIABATIC CHART

WBAN-31B

Mb.

−90° −80° −70° −60° −50° −40°

10 15 20 30 40 50 60 80 100 125 150 200 250 300 350 400 500

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

0% 100%

−90° −80° −70° −60° −50° −

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN—33 OR PUNCHED CARD	
00Sss	N(tenths)	T
TTTaJaTa	°RH	°D.P.
0dd00	D(10 pts.) Wind	S(m.p.h.)

*Omitted above 200 mbs.

Station

Lat. Long.

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

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

P—Pressure-height
T—Temperature °C
RH—Relative Humidity
Height scales in geopotential

U.S. GOVT.

Km.

10°

CARD NO.	LEVEL NO.	PRESSURE		TEMPERATURE		WIND DIRECTION	WIND VELOCITY	HEIGHT
			SIGNIFICANT LEVELS					
	1		904		15			
	2		752		10.4			
	3		700		10.0			
	4		576		13.2			
	5		450		12.0			
	6		325		5.1			
	7		200		-5.1			
	8		175		-5.1			
	9		370		-11.0			
	10		364		-13.4			
	11		415		-17.1			
	12		537		-17.2			
	13		525		-23.1			
	14		432		-25.2			
	15		341		-28.1			
	16		400		-30.7			
	17							
	18							
	19							
	20							

500

550

600

650

700

750

800

850

900

950

1000

1050

CODED MESSAGE FOR TRANSMISSION

531	09032	85473	17990	03123
70994	00647	02614	50850	67752
09472	40357	78571	03024	55515
00984	01534	11952	11523	22400
10571	32878	13582	04791	09621
55564	61492	66337	63752	77432
75781	11			

CONSTANT PRESSURE DATA

6430	7235	-2341
69	67	-280
+2	+3	0124

290

9650	5640	-172
67752	49	-2553
09472	+3	0337

290 M

4920	-120	
42	X	
12	032	

300

4748	-0779	
43	X	
—	1274	

300

3620	-0344	
38	X	
—	021	

300

34 104

292

2480	00417	
27	X	
—	011	

300

1744	0085	
(13)	X	
—	013	

310

0473	1941	0194
12950	(12)	1140
0013	—	013

310

0963	0102	
29	X	
—	110	

293

0523	0107	
37	X	
—	011	

293

07

032	00516	1
	1	1

	PRESSURE	
00964	0964	0015
01534	71	-32
—	—	000

000

PUNCHED CARD No. 1

10° 4 Km. 20° 3 Km. 30° 2 Km. 40° 1 Km. 50° M.S.L.

FIRST RELEASE SURFACE

Drawn by E.P. HALLMAN A/IC

Verified by R.K. BELESKY A/IC

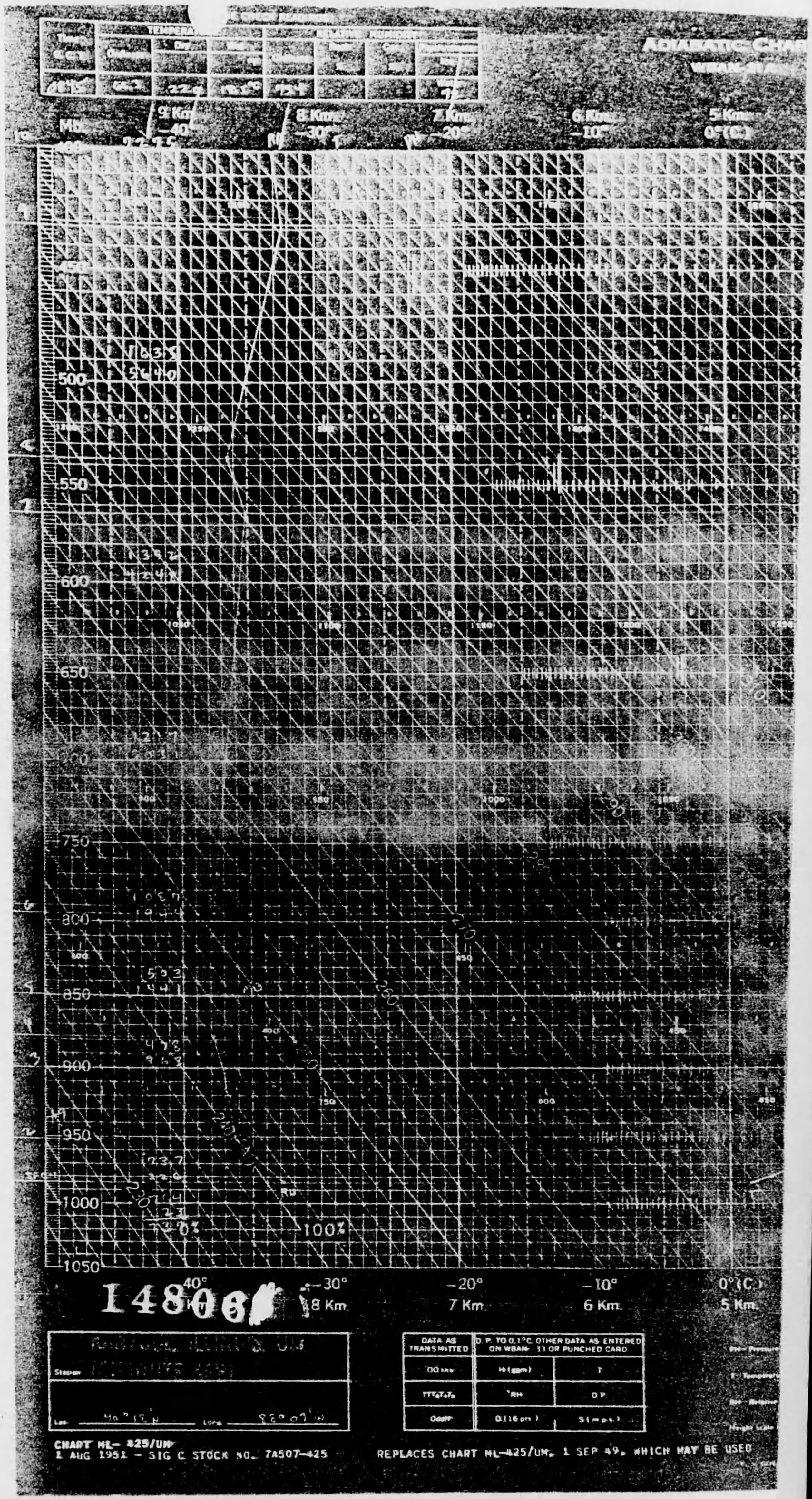
Inspected by

DATE AND RELEASE TIME

	Year	Month	Day	Time
90 m. Mon	1956	JAN	6	0300
G.C.T.	1956	JAN	6	0900

Radiosonde No. 35020 Observation No. 22

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



DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN 33 OR PUNCHED CARD	
00 hhh	Ht (gpm)	T
TTTqTdTd	%RH	DP
dddff	d (16 pts)	S (mph)

PH – Pressure
T – Temperature
RH – Relative
Height Scale

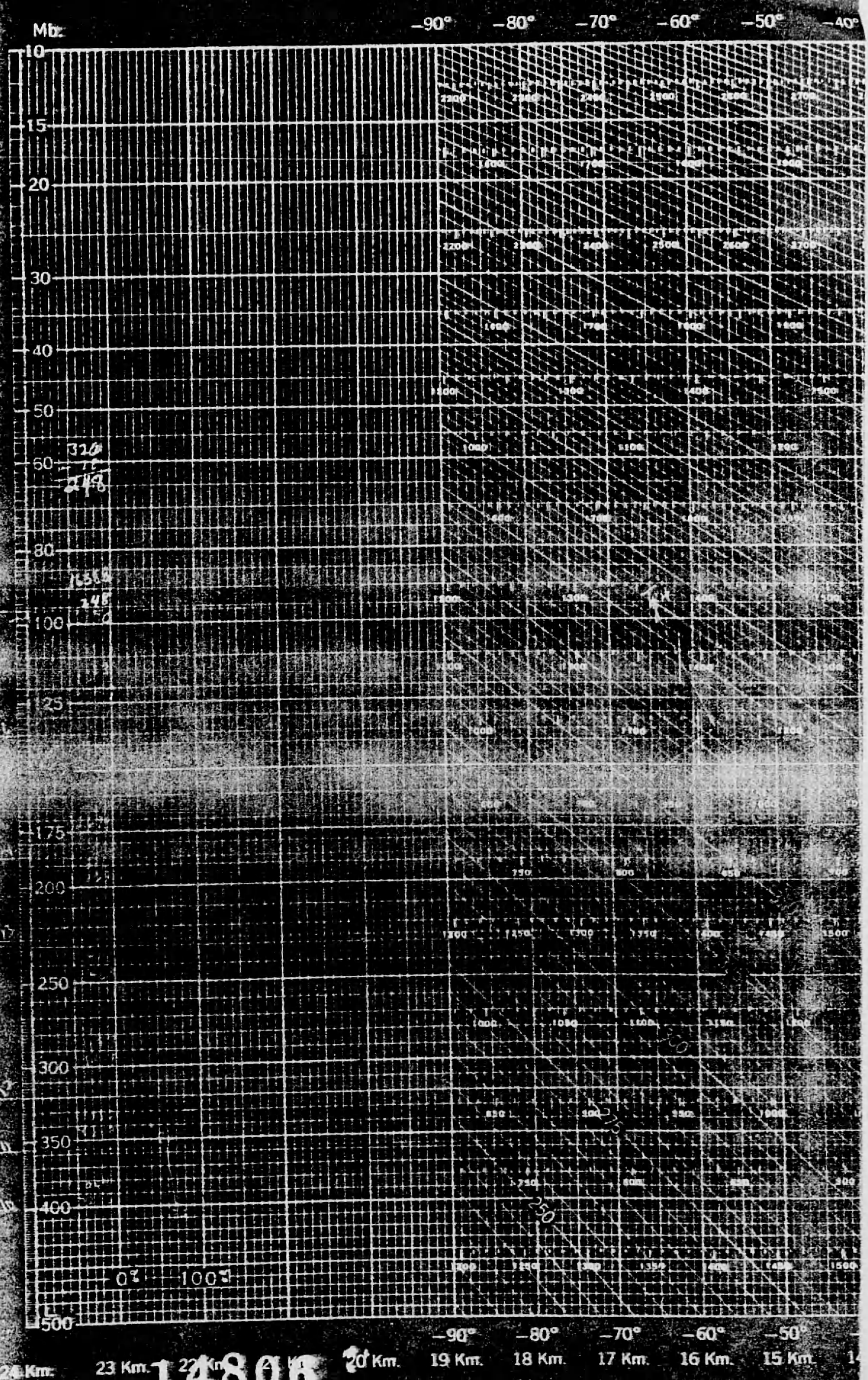
CHART ML– 425/UM
1 AUG 1951 – SIG C STOCK NO. 7A507–425

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

Code Check	Level No.	PRESSURE		TEMPERATURE				RELATIVE HUMIDITY		DEW POINT	REMARKS
		Coniact	mb.	Ordinate	Ascent (°C)	Correction	Corrected	Ordinate	% Including Correction of	°C	
SIGNIFICANT LEVELS											
88	11	6.15	357	25.5	-34.4			16.3	59	-37.6	
	12	66.5	320	21.1	-40.5						
	13	81.5	224	11.1	-56.4						
	14	88.5	186	7.4	-66.6						
	15	96.5	155	8.2	-65.1						
24	16	111.5	116	11.9	-57.6						
7	17	113.5	96	8.4	-69.6						

ADIABATIC CHART

WBAN-31B



14806

DATA AS TRANSMITTED	D. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
OO sss	H (gpm)	T
$TTT_dT_dT_d$	*RH	*D.P.
Odd	D (16 pts.) Wind	S (m.p.s.)

*Omitted above 200 mb.

PH—Pressure height

T—Temperature °C

RH—Relative Humidity

Height scale in gradu

Station

Lat. Long.

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

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

U.S. GOVE

SIGNIFICANT LEVELS

CODED MESSAGE FOR TRANSMISSION

PUNCHED CARD No. 3

PUNCHED CARD No. 2

PUNCHED CARD No. 1

10° 20° 30° 40° 50°

4 Km. 3 Km. 2 Km. 1 Km. M.S.L.

SURFACE

DATE AND RELEASE TIME

	Year	Month	Day	Time
95th Mer.	56	Nov.	5	1600
G.C.T.	56	Nov.	5	2100

Radiosonde No. 51017 Ascension No. 20

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

1st Release

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

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

Station WRIGHT-PATTERSON A.F.B.

Lat. 39° 52' N Long. 84° 03' W

DATA AS TRANSMITTED	O. F. TO 0.1°C OTHER DATA AS ENTERED ON WBAN—33 OR PUNCHED CARD	
QQsss	H (gpm)	T
TTTdDTw	*RH	*D.P.
OddFF	D (16 pts.) Wind	S (m.p.h.)

*Omitted above 200 mbs

PH— Pressure-height

T— Temperature °C

RH— Relative Humidity

Height scale in geopotential

CHART ML-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

Code Check	Level No.	PRESSURE: Constant	PRESSURE: mb.	TEMPERATURE: Ordinate	TEMPERATURE: Ascent (°C)	TEMPERATURE: Correction	TEMPERATURE: Corrected	RELATIVE HUMIDITY: Ordinate	RELATIVE HUMIDITY: % Including Correction of %	DEW POINT: °C	REMARKS
SIGNIFICANT LEVELS											

CONSTANT PRESSURE DATA

PUNCHED CARD No. 1

PUNCHED CARD No. 2

PUNCHED CARD No. 3

PUNCHED CARD No. 4

CODED MESSAGE FOR TRANSMISSION

SOLAR RADIATION CORRECTIONS FOR RAOB TEMPERATURE

1. Time, LST, at 200 mb. or at termination, if between 400 mb. and 200 mb.
2. Correction for LST
3. Time, LST, Algebraic sum of (1) and (2)
4. Difference between (3) and solar noon.
5. Elevation angle of sun.
6. Elapsed time from 200 mb. to terminating level.
7. Recessional rate

-30° -20° -10° 0° 10° (°C.)

8 Km. 12 Km. 11 Km. 10 Km. 9 Km. 8 Km. 7 Km. 6 Km. 5 Km.

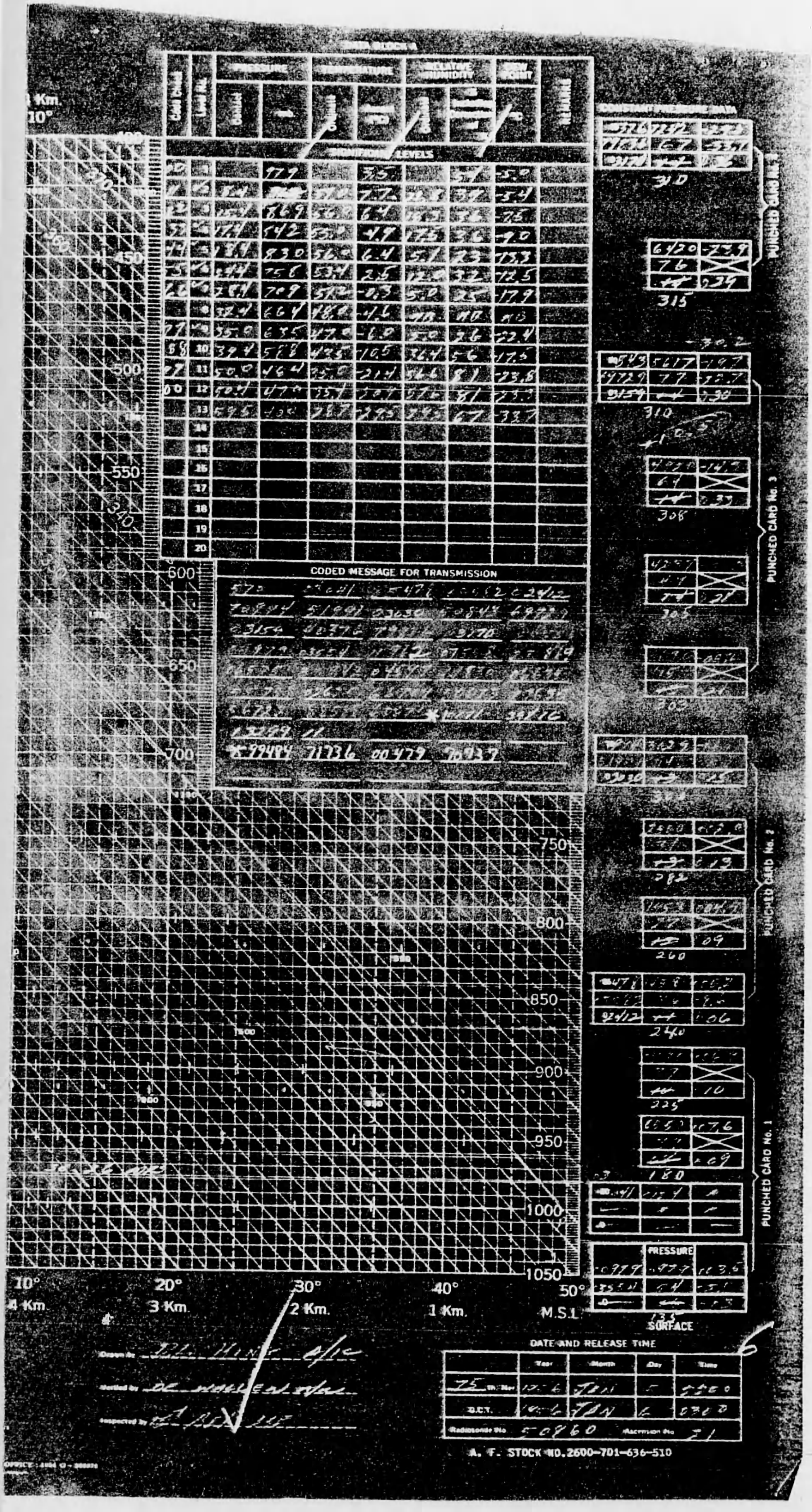
DATE AND RELEASE TIME

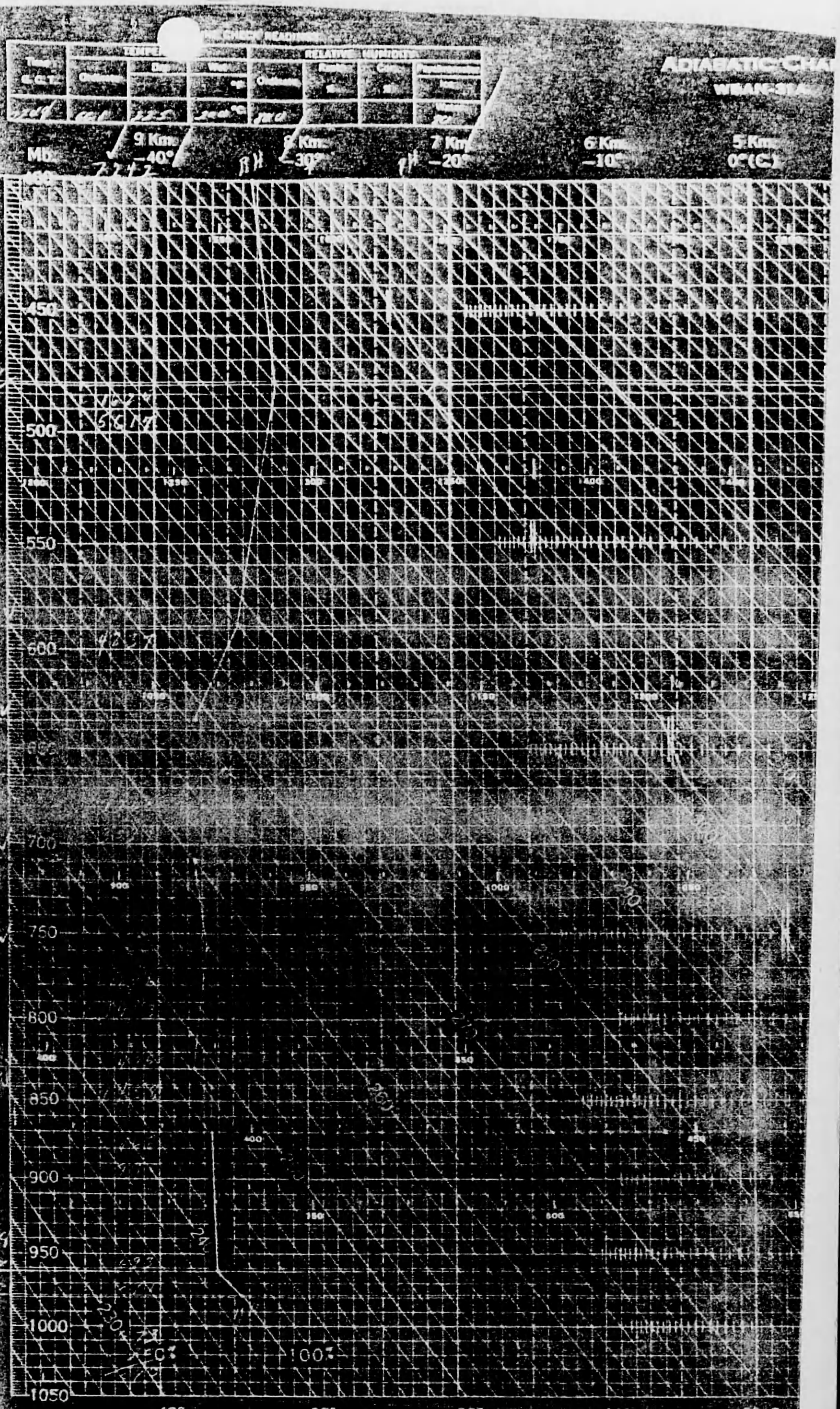
	Year	Month	Day	Time
75th Mer.	56	Nov.	5	1645
G.C.T.	56	Nov.	5	2100

Radiosonde No. [illegible] Observation No. 30

1st Release

A. F. STOCK NO. 2600-701-636-515.


Km.
10°
500
550
600
650
700
750
800
850
900
950
1000
1050
1500
CODED MESSAGE FOR TRANSMISSION
PUNCHED CARD No. 3
PUNCHED CARD No. 2
PUNCHED CARD No. 1
PRESSURE
SURFACE
10°
20°
30°
40°
50°
4 Km.
3 Km.
2 Km.
1 Km.
M.S.L.
DATE AND RELEASE TIME
Year
Month
Day
Time
G.C.T.
Radiosonde No.
Ascension No.
A. F. STOCK NO. 2600-701-636-510



13840

Station
Lat. _____ Long. _____

DATA AS TRANSMITTED	D. P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
OO kkk	H (gpm)	T
TTT$_a$T$_a$T$_a$	RH	D.P.
Odd	D (16 pts.)	S (m.p.s.)

PH— Press
T— Tempe
RH— Rela
Height sc

CHART ML- 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

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

Station (A.F.B.)

Lat. 52 N Long. 94° 07'W

DATA AS TRANSMITTED	O. P. TO 0.1°C OTHER DATA AS ENTERED ON WBAN—33 OR PUNCHED CARD	
00$n_0n_0n_0$	N (cpm)	T
$TTT_dT_dT_d$	°RH	°D.P.
$ddfff$	D (16 pts)	Wind S (m.p.s.)

*Omitted above 200 mbs.

Ptn—Pressure-height

T—Temperature °C

RH—Relative Humidity

Height scale in geopoten

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

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

U. S. GOVERN

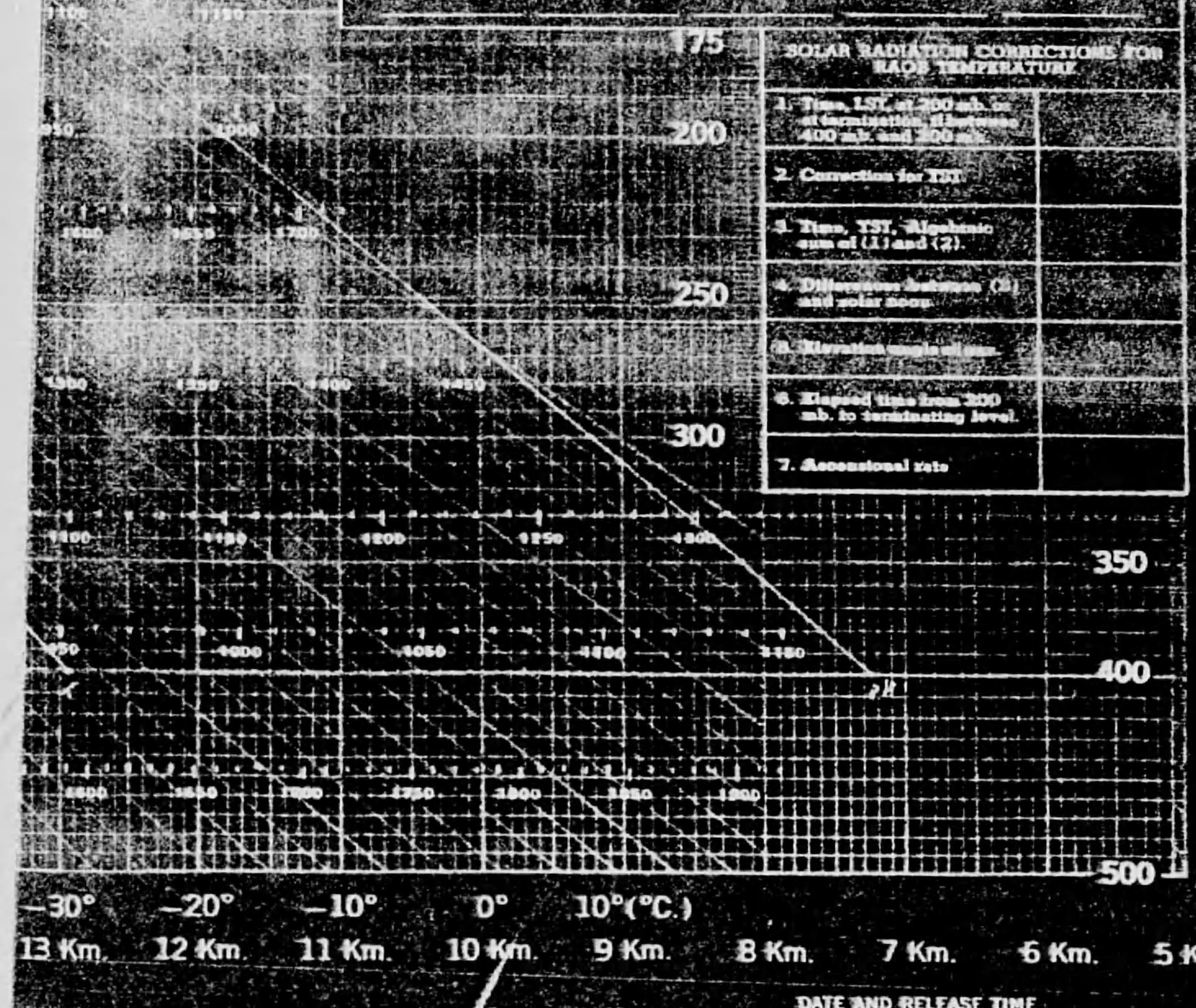
Code Check	Level No.	PRESSURE Contact	PRESSURE mb.	TEMPERATURE Ordinate	TEMPERATURE Ascent (°C)	TEMPERATURE Correction	TEMPERATURE Corrected	RELATIVE HUMIDITY Ordinate	RELATIVE HUMIDITY % Including Correction of %	DEW POINT °C	REMARKS
SIGNIFICANT LEVELS											
11	[illegible]	682	[illegible]	211	-460			174	75	-427	
	[illegible]	790	258	126	-547						
	[illegible]	[illegible]	[illegible]	124	-551						
22	[illegible]	910	[illegible]	78	-689	✓					
33	[illegible]	920	[illegible]	95	-615						
44	[illegible]	[illegible]	[illegible]	115	-570						
	[illegible]	1010	142	98	-607						
	[illegible]	1050	[illegible]	112	-576						
55	[illegible]	1074	116	110	-580						

CODED MESSAGE FOR TRANSMISSION

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

SOLAR RADIATION CORRECTIONS FOR RAOB TEMPERATURE

1. Time, LST, at 200 mb. or at termination of between 400 mb. and 200 mb.	
2. Correction for TST.	
3. Time, TST, Algebraic sum of (1) and (2).	
4. Difference between (3) and solar noon.	
5. [illegible]	
6. Elapsed time from 200 mb. to terminating level.	
7. Ascensional rate	



CONSTANT PRESSURE DATA

PUNCHED CARD No. 1

PUNCHED CARD No. 2

PUNCHED CARD No. 3

PUNCHED CARD No. 4

PUNCHED CARD No. 5

Drawn by [illegible]

Verified by [illegible]

Reproduced by [illegible]

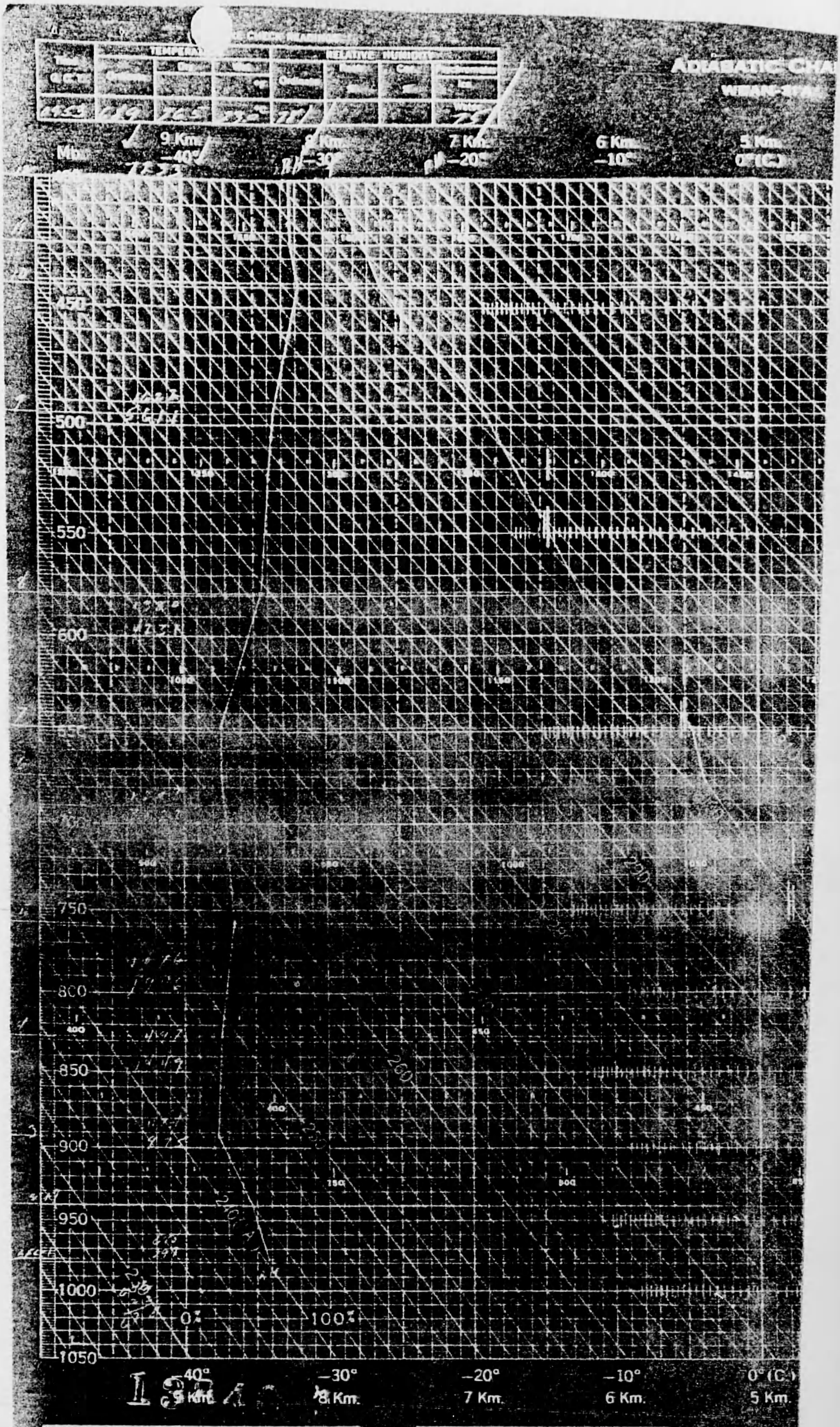
DATE AND RELEASE TIME

	Year	Month	Day	Time
[illegible]	[illegible]	[illegible]		[illegible]
G.C.T.	[illegible]	[illegible]	[illegible]	[illegible]

Radiosonde No. [illegible] Ascension No. [illegible]

A. F. STOCK NO. 2600-701-636-515

[illegible] OFFICE : [illegible]



DATA AS TRANSMITTED	D.P. TO 0.1°C. OTHER DATA AS ENTERED ON WBAN-33 OR PUNCHED CARD	
00 bbb	H (gpm)	T
TTT$_4$T$_4$T$_3$	RH	D.P.
Oddff	D (16 pts.)	S (m.p.s.)

Station

Lat. Long.

PH— Pres

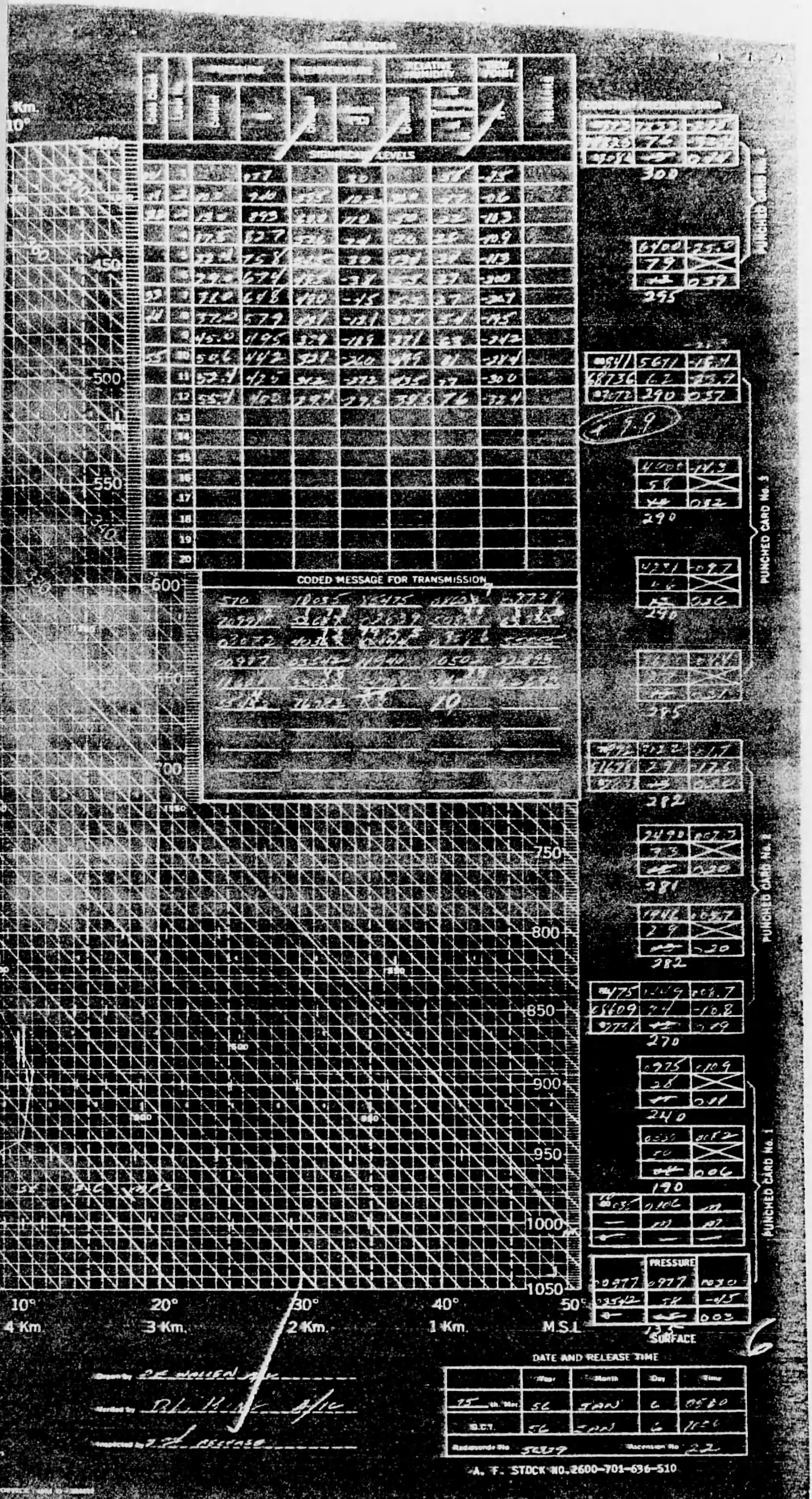
T— Temp

RH— Rel

Height

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

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


Km.
10°
SIGNIFICANT LEVELS
CODED MESSAGE FOR TRANSMISSION
PUNCHED CARD No. 1
PUNCHED CARD No. 2
PUNCHED CARD No. 3
PUNCHED CARD No. 4
PUNCHED CARD No. 5
PRESSURE
SURFACE
DATE AND RELEASE TIME
Month
Day
Time
A. F. STOCK NO. 2600-701-636-510
10°
20°
30°
40°
50°
4 Km.
3 Km.
2 Km.
1 Km.
M.S.L.