PROJECT 10073 RECORD CARD

1. DATE	2. LOCATION	12. CONCLUSIONS
21 Jan 61	Akron, Ohio	☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon
3. DATE-TIME GROUP Local 2305 GMT 220405Z	**4. TYPE OF OBSERVATION** ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft
5. PHOTOS ☐ Yes ☒ No	**6. SOURCE** Civilian	☐ Was Astronomical Moon ☒ Probably Astronomical ☐ Possibly Astronomical
7. LENGTH OF OBSERVATION 15-20 Min	**8. NUMBER OF OBJECTS** 1	**9. COURSE**
		☐ Other_____ ☐ Insufficient Data for Evaluation ☐ Unknown

10. BRIEF SUMMARY OF SIGHTING Like a circle or plate with the top cut off and approx 5 times the size of moon. Color reddish-orange. Appeared 12° N of due W. Disappeared same position.

See: Slides 7-3745-458

(SLIDES IN PHYSICAL SPECIMEN FILE)

11. COMMENTS It is concluded by FTD that the object viewed by witnesses was the setting moon distorted by atmospheric refraction. Weather conditions probably contributed to misidentification. Conclusion substantiated by fact that moon was just N of W; and all sightings occurred at approx time of moonset.

ATIC FORM 329 (REV 26 SEP 52)

Akron Ohio

21 January 1961

On 21 Jan 61, several witnesses in the Akron, Ohio area reported seeing an unidentified ~~mhjmmk~~ flying object. The information from the witnesses was generally consistent; the object being sighted between 2230 and 2300; appearing as a red-orange object just north of west and on the horizon. The object was further described by the witnesses as appearing as a circle or plate with the top cut off and appeared to be larger than the moon. The sighting was reported to have lasted 10 to 15 minutes.

On 21 Jan 61 official moonset at Akron was 2304. This time, of course, will deviate due to topographical conditions, manmade structures and the vantage point of the observer. However these deviations will be small. The moon was approaching the first quarter and only 23% of the surface visible from the earth was illuminated.

When the moon is just rising or setting, it often assumes an elliptical shape with the longer diameter parallel to the horizon. This is caused by atmospheric refraction raising the lower edge more than the upper and therefor apparently shortening the diameter perpendicular to the horizon. If there are several layers of discontinuity in the atmosphere, the distortion will be even more pronounced. In the Akron sighting the fact that the moon already was irregularly shaped, due to the approach of the first quarter, added to the effect created by the refraction. This is probably the resaon the witnesses did not recognize the object for what it was and reported the top as flat or "cut off".

On 21 Jan 61 at 2258 the weather at Akron-Canton Airport was a 2,000 foot overcast composed of stratiform clouds, the visibility was 7 miles, and the temperature was 7 degrees Farenheit.

It is the Air Force conclusion that the ~~xxxxxxxx~~ object viewed by the witnesses in Akron, Ohio on 21 Jan 61 was the setting moon distorted by atmospheric refraction. This conclusion is substantiated by the facts that the moon was located just north of west at the time of the sighting on 21 Jan 61, the direction reported for the UFO by the witnesses. The sightings occured at the approximate time of moonset with none occuring after 2309 which is only ONE minute after the official moonset time for Akron,Ohio on 21 January 1961.

DEPARTMENT OF THE AIR FORCE
OFFICE OF THE SECRETARY

MEMORANDUM

MEMORANDUM:

Forwarded a copy of this ATIC evaluation to SAFLL (L/C Poe) 21 April 1961.

WTC

AEROSPACE TECHNICAL INTELLIGENCE CENTER
UNITED STATES AIR FORCE
WRIGHT-PATTERSON AIR FORCE BASE
OHIO

REPLY TO
ATTN OF: AFCIN-4E

13 APR 1961

SUBJECT: UFO Sighting (Akron, Ohio, 21 January 1961)

TO: SAFOI-3d (Major Coleman)

1. During March 1961 your office forwarded a tape recording to ATIC which was prepared by Mr [redacted] of Akron, Ohio, concerning the subject of Unidentified Flying Objects. The tape contained specific information about a sighting which occurred in Akron, Ohio, on the night of 21 January 1961. Mr. [redacted] forwarded a copy of this tape to the President of the United States and also to several members of Congress. This case was not brought to the attention of the Air Force except through Mr [redacted] tape recording which reached ATIC on 14 March 1961.

2. On 21 March 1961 two officers were dispatched from ATIC to Akron for the purpose of investigating the 21 January 1961 UFO sighting. From the data collected by the investigators it was determined that the UFO sighting resulted from the misidentification of the setting moon due to atmospheric refraction.

3. The Air Force investigators interviewed Mr. J[redacted] whose account of the sighting is on the [redacted] tape recording. Mr. [redacted] was contacted and his taped accounts of the sighting by Mr. and Mrs. [redacted], Mrs [redacted] and her eleven years old daughter, [redacted] Mr. and Mrs. [redacted], and Mr. and Mrs. [redacted] were run off for the investigators. The information from the witnesses was generally consistent; the object being sighted between 2230 and 2300, appearing as a red-orange object just to the north of west and very low on the horizon. The object was further described by all witnesses as appearing like a circle or plate with the top cut off and approximately five times the size of the moon. The sighting was reported to have lasted approximately fifteen minutes.

4. On 21 January 1961 at 2258 the weather at the Akron-Canton Airport was a 2000 foot overcast composed of stratocumulus clouds, the visibility was 7 miles, and the temperature was 7°F. The witnesses stated that in Akron it was partly cloudy rather than overcast; however, the most significant point is the presence of stratiform clouds which are indicative of stable conditions (inversions). Inversions increase the index of refraction of the atmosphere.

5. On 21 January 1961 official moonset at Akron was 2304. This time, of course, can deviate due to topographical conditions, manmade structures and the vantage point of the observer; however, these deviations are

usually small. The moon was approaching its first quarter and only 23% of the surface visible from the earth was illuminated. The semidiameter on this date was 15' 58.85".

6. When a ray of light consisting of vibrations of the same wave length (monochromatic light) passes from a rarer medium such as air to a denser medium such as glass, the ray is bent toward the perpendicular to the surface separating them. When the ray passes from a denser to a rarer medium, it is bent away from a similar perpendicular. This bending of the ray is called refraction. Light of different wave lengths is refracted differently under the same conditions, the shorter the wave length the greater the refraction. Thus, since red light has a longer wave length than yellow, it is refracted less; and yellow light is refracted less than blue light and so on. If a ray of light should, therefore, be composed of each of these colors (polychromatic), the effect of passing from a denser to a rarer medium would be to distribute the light into the various colors. This decomposition of a ray of light into its constituent colors is called dispersion. In the instance of the atmosphere we do not have different mediums but different densities of the same medium occurring in an infinite number of layers resulting in a curved path rather than one bend as when the one separating surface is clearly defined. As we increase our altitude the atmosphere becomes less dense, and as a result we have refraction. However, on certain occasions we have an increase in temperature with altitude (inversion) which increases the rate of change of density with altitude and therefore increases the index of refraction.

7. When the moon is just rising or setting it often assumes an elliptical shape with the longer diameter parallel to the horizon. This is caused by the refraction raising the lower edge more than the upper and therefore apparently shortening the diameter perpendicular to the horizon. In the Akron sighting the fact that the moon already was irregularly shaped, due to the approach of the first quarter, added to the effects created by the refraction. This is probably what caused the witnesses to report that the top of the object appeared flat or cut off on top. It is not unusual to experience the illusion that the moon is larger when it is rising or setting. This illusion results from being able to compare it with objects of known size when it is near the horizon.

8. It is concluded by ATIC that the object viewed by the witnesses in Akron, Ohio, on 21 January 1961 was the setting moon distorted by atmospheric refraction. The apparently irregular shape, apparently greater size, and possibly weather conditions probably contributed to the misidentification. This conclusion is substantiated by the facts that the moon was located just north of west on 21 January 1961 the direction reported for the UFO and all of the sightings occurred at the approximate time of moonset with none occurring after 2305 which is only one minute after the official moonset time for Akron, Ohio, on 21 January 1961.

9. It is requested that you pass this information to SAFLL for forwarding to Mr. Robert Smart, House Armed Services Sub-Committee.

FOR THE COMMANDER:

PHILIP G. EVANS
Colonel, USAF
Deputy for Science and Components

UFFICIAL FILE COPY
4E

AFCIN-4E/Maj Friend/vw/69216

UFO Sighting (Akron, Ohio, 21 January 1961) 13 APR 1961

SAFOI-3d (Major Coleman)

1. During March 1961 your office forwarded a tape recording to ATIC which was prepared by Mr. [redacted] of Akron, Ohio, concerning the subject of Unidentified Flying Objects. The tape contained specific information about a sighting which occurred in Akron, Ohio, on the night of 21 January 1961. Mr. [redacted] forwarded a copy of this tape to the President of the United States and also to several members of Congress. This case was not brought to the attention of the Air Force except through Mr. [redacted] tape recording which reached ATIC on 14 March 1961.

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3. The Air Force investigators interviewed Mr. [redacted] whose account of the sighting is on the [redacted] tape recording. Mr. [redacted] was contacted and his taped accounts of the sighting by Mr. and Mrs. [redacted], Mrs. [redacted] and her eleven years old daughter [redacted], Mr. and Mrs. [redacted] and Mr. and Mrs. [redacted] were run off for the investigators. The information from the witnesses was generally consistent; the object being sighted between 2230 and 2300, appearing as a red-orange object just to the north of west and very low on the horizon. The object was further described by all witnesses as appearing like a circle or plate with the top cut off and approximately five times the size of the moon. The sighting was reported to have lasted approximately fifteen minutes.

4. On 21 January 1961 at 2258 the weather at the Akron-Canton Airport was a 2000 foot overcast composed of stratocumulus clouds, the visibility was 7 miles, and the temperature was 7°F. The witnesses stated that in Akron it was partly cloudy rather than overcast; however, the most significant point is the presence of stratiform clouds which are indicative of stable conditions (inversions). Inversions increase the index of refraction of the atmosphere.

5. On 21 January 1961 official moonset at Akron was 2304. This time, of course, can deviate due to topographical conditions, manmade structures and the vantage point of the observer; however, these deviations are

usually small. The moon was approaching its first quarter and only 23% of the surface visible from the earth was illuminated. The semidiameter on this date was 15' 58.85".

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1. PPT Nr.

TASK ACTIVITY REPORT

2. Subject: UFO Sighting	3. Initiator: Capts R. T. Smith, E. J. Wolf	6. Card Nr.
	4. Symbol: 4E2x 5. Phone:	7. Date: 4 Apr 61

8. NATURE OF REQUEST OR ACTION: ☐ Product Coordination (4E); ☐ Schedule Change (4X7); ☐ Program Change (4X6); ☒ Trip Report; ☐ Staff Digest (4X2a); ☐ Contract Status (4X6); ☐ Graphics (4D2); ☐ Collect Support (4A)

_____ ACTION _____ INFORMATION _____ REPORTED _____ REQUESTED

9. Comment: On 21 March 61, Captains Robert T. Smith and Earl J. Wolf, Jr. traveled to Akron, Ohio, to check on reported UFO sighting.

The first task upon arrival in Akron was to locate the Pulliam family who had reported a Phenomena Sighting the night of 21 January 61. The information was obtained by going to the city's newspaper, the Akron Beacon Journal, which specializes in the reporting of spectacular controversial incidents, and [redacted] then researching the desired reports in the paper's file library.

The newspaper issues of 26 and 31 January 61 carried articles relative to the "Pulliam Sighting" of 21 Jan 61. Two of the articles reported the reaction of city (Akron) officials relative to the report (i.e [redacted]

The family reporting the incident was identified as the [redacted] family, [redacted] located on the North edge of Lake Nesmith, a very small lake (pond) situated in the South industrial section of the city of Akron.

Before making contact with the [redacted] Family, we inspected the whole area of Lake Nesmith (pond) thoroughly, making complete photo coverage while doing so. Also, we secured lodging in a motel, located on the South side of Lake Nesmith, almost directly

PPT Nr. _____ Card Nr. _____

across from the [redacted] residence.

Item 9 (Cont)

Established contact with the [redacted] on 22 March and arranged for an interview later on in the day. Mr. [redacted] and his oldest son, [redacted] 17 years old, were quite cooperative but a little apprehensive during the interview due to the fact that Mr. [redacted] [redacted] of the Unidentified Flying Objects Research Committee of Akron, Ohio, was not present. We assured Mr [redacted] that before we departed the city we would get in touch with Mr [redacted] after that, the interview went somewhat more smoothly.

The interview was recorded on tape and in general went along with a previous tape recording of the [redacted] Incident" made by Mr. [redacted] and sent thru channels to ATIC. However, one major discrepancy was that during the interview Mr. [redacted] stated that he and his entire family went outside of the house together and observed "The Object". The previously received tape stated that he [redacted] stayed inside the house and other

10. NEXT COURSE OF ACTION OR REFERENCES:

11. COORDINATION & APPROVAL

Capt R. T. Smith Capt E. J. Wolf	Maj R. Friend	Col R. R. Shoop	Col P. G. Evans

ATIC FORM DEC 60 46a This form supersedes ATIC Test Form 46a, Jun 60, which is obsolete.

9. It is requested that you pass this information to SAFLL for forwarding to Mr. [redacted] House Armed Services Sub-Committee.

FOR THE COMMANDER:

PHILIP G. EVANS
Colonel, USAF
Deputy for Science and Components

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

PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

Electric Company, Akron. Inquired if any power line trouble had occurred in the area of Nesmith Lake on 21-22 Jan 61. None was recorded; and if any trouble had occurred, Mr. [redacted]s office would have had a record of it. The above contact was made as [redacted] reported that there was an odor associated with the sighting as though electric wires were burning. Also from the reported behavior and location of the [redacted] UFO it could/ should have come through near an electric high tension line located West of [redacted] home.

ACCOMPLISHMENTS:

Conducted personal interview with Mr [redacted] and recorded the interview on tape.

Conducted a complete photo-recon of the area in which the [redacted] incident of 21 January occurred.

Established a friendly working relationship with Mr [redacted] Director of the UFO Research Committee, Akron.

Established working support of Akron Civilian Defense Office, Mrs. [redacted].

Became area orientated in case future incidents dictate repeated trips.

PERSONAL OBSERVATIONS:

All people contacted were very eager to cooperate and gave freely of their time.

Believe that the people involved with the [redacted] incident and contacted gave no false information - all were very sincere and from many personal debriefing experiences,

- -

PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

I believe that they were stating, as best they could and honestly, an experience of personal involvement which they actually witnessed but did not, perhaps, could not, understand.

[redacted], whatever his motivations, is very eager and capable of honestly and unbiasly assisting in UFO investigations.

Local area Civilian Defense Offices can and should be utilized while conducting UFO investigations.

RECOMMENDATIONS:

Utilize local area Civilian Defense Organizations during UFO investigations.

Utilize various Civilian UFO Organizations in any/all of the following ways: (However make it understood that the organizations do not represent the USAF during organizational activities !!)

Conduct on the spot taped interviews plus photo reconnaissance.

Perform finished studies of each factually backed up incident.

Perform a study of previous unexplained UFO reports.

Remuneration to the various UFO organizations could be accomplished by replacing material such as blank tapes to replace equipment which is taken from the organization as evidence.

PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

members of the family went outside during the observation of the incident. It was also brought out during the interview that a similar incident occurred on 23 November 60 while Mr. [redacted] was away from Akron on a business trip; both incidents occurred approximately at the same time of the evening (11:05 p.m.) and behaved in a like manner; however, the November sighting was not reported to the officials and no public record was made of it. During the interview, Mr [redacted] showed us the location of the incident both from their points of observation and the location of the objects appearance/behavior. (On-the-spot photographs were made of all points.)

At the termination of the [redacted] Interview, contact was made with Mr. [redacted] of the UFO Research Committee, Akron, and an interview was established.

Mr [redacted] brought along to the interview his assistant, Mr. [redacted] At first the two gentlemen were very unfriendly, due mainly to previous rude treatment (treated him as a seeker of publicity, out for his own gains, a crack pot, a liar, and in general, the old idiot treatment) by both city officials and a representative of the Dept of Defense.

During some 7 hours of interview Mr. [redacted] and [redacted] showed us every consideration, took us to interview a Mrs. [redacted] whose home is located in the general area of Lake Nesmith, at [redacted] and had also reported to [redacted] the sighting of a UFO during the night of 22 Feb 61. Later during the evening Mr. [redacted] took us to his residence to review a great deal of UFO work he and his committee has compiled throughout the previous years.

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PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

While at [redacted] home we listened and recorded taped interviews of 4 other individual sightings of the [redacted] incident of 21 Jan 61. The other sightings were made by Mr. [redacted] at 10:30 p.m., Mrs. [redacted] and 11 year old daughter, [redacted] at 10:40 p.m., Mr. and Mrs. [redacted] at 10:40 p.m., and Mr. and Mr [redacted] at 10:40 p.m., all on the night of 21 Jan 61 and none of the people are related or were known to one another.

The other people did not report their sightings of a UFO officially except to Mr. [redacted] who has his interviews with them recorded on tape.

During our interview with [redacted] he brought out the very irritating fact of the great amount of trouble he and other consciencious citizens have had dealing with various governmental officials, especially with Lt Colonel Lawrence Tacker, Chief SAFOI-3d, Washington D. C. [redacted] pointed out Tacker's new book has some very stupid and elementary errors in it; and indicated that this official has treated him with childish disrespect. [redacted] possesses taped telephone conversations with Tacker which pretty well bare out [redacted] position.)

We also had an interview with Mrs. [redacted] or of the City of Akron's Civilian Defense Office, [redacted] She was very cooperative and has offered to us (USAF representatives) the use of any/all of the city's services at any time - even the use of her offices as our headquarters in the area should the need arise.

Contacted Mr. [redacted] Line Service Dept., Edison

Akron Beacon Journal

...Seen Over Nesmith Lake

26 JAN 61

Slap Police Attitude On 'Flying Object'

A "nerve-shattering experience" an Akron family had with an unidentified flying object (UFO) was described today to Akron Councilmen by the UFO Akron Area Research Committee.

In a letter to Council, two committee officials told of the object sighted by the James Pulliam family, 652 W. Waterloo rd., last Saturday over a Nesmith Lake cove.

• • •

"AN UNIDENTIFIED flying object, 30 or more feet in diameter, hovered, tilted and illuminated a small cove in the lake," wrote Chairman George Popowich and Sighting Chairman Laurence Moyers.

"The object generally paced the area at 40 feet altitude and frequently within 300 feet of the (Pulliam) home," the letter continued.

• • •

THE COMMITTEE sent the letter to formally protest the attitude of the Police Department when the Pulliams called to report what they had seen.

"The Pulliams were greeted with light talk and a laughing response," Popowich and Moyers charged. "This family was exposed to a soul-searching phenomon which should have been handled (by police) with interest and investigation."

The UFO leaders asked Councilmen to "guide policemen to a more alert receptivity" to such reports.

The letter will be read at Tuesday's City Council meeting.

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31 JAN 61

Saucer Laws Needed

The UFO Akron Area Research Committee has written to City Council to complain about the treatment an Akron family received from the police department when it telephoned to report the sighting of an unidentified flying object hovering over Nesmith Lake.

The flying saucer group says somebody at the police station received the news "with light talk and a laughing response." The letter asks Council to "guide policemen to a more alert receptivity" to reports of this kind.

Our first reaction was to wonder why the saucer spotters didn't complain to the Mayor, who is ex officio safety director and boss of the police department, instead of taking the matter to Council. But then it dawned on us that admonishing the police to take UFO reports seriously is only part of what is involved here.

In the absence of any laws governing the conduct of visitors from outer space, what could the police have done about it if they HAD taken the Nesmith Lake report seriously and gone out and lassoed the saucer?

The police need guidance, all right, but not just in being polite to the public— the earth public, that is. They need ordinances which at least would give them authority to take saucer crews into custody for questioning. Otherwise we're liable to have an interplanetary incident around here.

way now under construction. Title cost.

Won't Act, On Protest

31 JAN 61

'Flying Object' Quiz Rejected By Council

City Council decided today not to launch its own investigation into the mysterious area of Unidentified Flying Objects, better known as UFOs.

Council, 9 to 3, voted to file a letter from two members of the UFO Akron Area Research Committee protesting the attitude of the Police Department last week when a "UFO sighting" was reported over a Nesmith Lake cove.

• • •

COUNCIL'S vote followed a file motion by Joseph Wheeler (D-4), who said he felt the matter had been "adequately discussed."

The vote came after Joseph Denholm (D-1), said that, "Since the letter referred to a flying object, perhaps it should be referred to the Airport and Aviation Committee."

Voting against filing were Edward Davis (D-3), J. P. Riddle (R-at-large) and Denholm.

• • •

DAVIS declared that "UFOs are no laughing matter. Ninety-eight per cent of the reports prove false, but it's the other 2 per cent that bother officials..."

The UFO reportedly was sited by the James Pulliam family, 652 W. Waterloo rd. The UFO Committee had asked Council to "guide policemen to a more alert receptivity to such reports."

TASK ACTIVITY REPORT (Page)

PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

We believe that by utilizing the Civilian UFO organizations two things can be readily realized:

1. Gain any/all available information that may contribute to the solutions of UFO reports via the most economical means available to responsible USAF/ATIC departments.

2. Realize a very amicable and responsible relationship between offices of the DOD and the American Public which during the past years has become increasingly more antagonistic in many areas to include congressional intervention.

ROBERT T. SMITH
Captain, USAF
AFCIN-4E

EARL J. WOLF JR.
Captain, USAF
AFCIN-4E

PPT Nr. _____ Card Nr. _____

Item 9 (Cont)

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

REPLY TO
ATTN OF: CCDPD/HHOE

SUBJECT: Data for Akron, Ohio 27 Mar 1961

TO: Aerospace Technical Intelligence Center
ATTN: AFCIN 4E 2X
Wright-Patterson AFB, Ohio

1. Reference: Your telephone requests on 17 March 1961 and 24 March 1961, and our letter 20 March 1961, subject: Data for Akron, Ohio and Vicinity.

2. We are inclosing photographic copies of hourly surface observations for Akron-Canton Airport, Ohio for the period 16 through 26 January 1961 which is the balance of data requested by your first telephone conversation. Included also is the period for Akron requested in your second call.

3. Copies of additional data requested in your second call are being prepared as listed below:

a. Surface hourly observations for 21 through 25 Nov 1960 from Cleveland, Pittsburgh, and Toledo.

b. Winds aloft observations for 21 through 25 Nov 1960 from Toledo, Ohio.

c. Radiosonde adiabatic charts for 21 through 25 Nov 60 from Pittsburgh.

4. Copies of these data will be forwarded by 31 Mar 1961.

FOR THE DIRECTOR

Pallas L. Tye Jr

PALLAS L. TYE, JR.
Captain, USAF
Administrative Officer

Atch
Data f/Akron, Ohio

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

REPLY TO
ATTN OF: CCDPD/HHOO

SUBJECT: Copy of Surface and Upper Air Data 29 Mar 1961

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

1. Reference: Your telephone request 24 March 1961 and our letter 27 March 1961, subject: Data for Akron, Ohio.

2. We are forwarding photographic copies of the following data:

a. Surface hourly observations for 21 through 25 Nov 1960 from Cleveland, Pittsburgh, and Toledo U. S. Weather Bureau stations.

b. Winds aloft observations for 22 through 25 Nov 1960 from Toledo, Ohio. No observations were taken on the 21 Nov 1960.

c. Radiosonde adiabatic charts for 21 through 25 Nov 1960 from Pittsburgh, Pennsylvania.

3. Surface data for Akron, Ohio were forwarded in the shipment on 24 Mar 1961.

FOR THE DIRECTOR

Pallas L Tye Jr

PALLAS L. TYE, JR.
Capt., USAF
Administrative Officer

1 Atch
Sfc & U/A data

ATIC

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

VIA AIRMAIL

REPLY TO
ATTN OF: CCDPD/HHOO

SUBJECT: WBAN-31 Adiabatic Charts for Pittsburgh 4 Apr 1961

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

1. Reference: Your telephone call 31 Mar 1961.

2. We are inclosing photocopies of adiabatic charts from Pittsburgh for 21 through 25 Nov 1960. We regret the oversight in our shipment 27 Mar 1961.

FOR THE DIRECTOR

JAMES R. DECOSTER
Chief, Data Processing Div.

1 Atch
WBAN-31 f/Pittsburgh

DDC

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?

21st Day / 1 Month / 61 Year

2. Time of day: 11 Hour / 05 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?

[redacted] Nearest Postal Address / AKRON 14 City or Town / Ohio Summit Co. State or Country

Additional remarks: _____

5. How long was object in sight? _____ Hours / 20 Minutes / _____ Seconds

5.1 How was time in sight determined?

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

6. What was the condition of the sky?

DAY
a. Bright
b. Cloudy

(NIGHT)
a. Bright
b. Cloudy Partly cloudy

7. IF you saw the object during DAYLIGHT, 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, 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. The object appeared:

(Circle One): a. As a light b. Shiny c. Dark d. Don't remember

10. If it appeared as a light, was it brighter than the brightest stars? Yes But Different color (Reddish Orange)

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. Flash or flicker?	Yes	No	Don't Know
h. Disappear and reappear ?	Yes	No	Don't Know

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

(Circle One): Yes No Don't Know. IF you answered YES, then tell what in front of: _____

14. Did the object appear: *(Circle One)*: a. Solid b. Transparent c. Vapor d. 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 Outside Eye view.		

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

a. Sound None

b. Color Reddish Orange (Bright White with known objects)

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.

18. The edges of the object were:

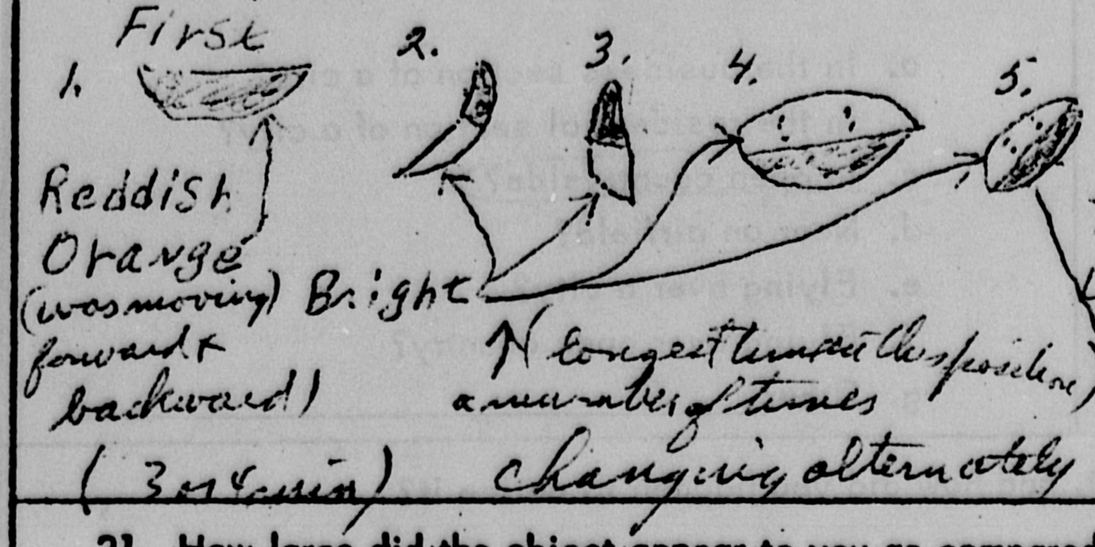
(Circle One): a. Fuzzy or blurred
b. Like a bright star
c. Sharply outlined more or less
d. Don't remember
e. Other _____

19. IF there was MORE THAN ONE object, then how many were there? _____

Draw a picture of how they were arranged, and put an arrow to show the direction that they were traveling.

Only one.

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.



21. How large did the object appear to you as compared to an object with which you are familiar?

30 or 40 FT.

22. We wish to know the angular size. Hold a match stick at arm's length in line with a known object and note how much of the object is covered by the head of the match. If you had performed this experiment at the time of the sighting, how much of the object would have been covered by the match head?

23. Did the object disappear while you were watching it? If so, how? Yes

IT Came Forward Then just Reversed + Vanished out of Sight

24. In order that you can give as clear a picture as possible of what you saw, 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.

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 (type)
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. 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?

watching T.V. My wife told me.

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)*

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

28.2 How fast were you moving?_____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
i. Overhead

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
i. Overhead

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

31.1 When it first appeared:

a. From true North_____degrees. 12 degrees North of due West.
b. From horizon_____degrees.

31.2 When it disappeared:

a. From true North_____degrees. Same.
b. From horizon_____degrees.

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

CLOUDS *(Circle One)*

a. Clear sky
b. Hazy
c. Scattered clouds
d. Thick or heavy clouds

WEATHER *(Circle One)*

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

35. When and to whom did you report that you had seen the object? (Wilbur Nice) George POPWICH.

21 Day / 1 Month / 61 Year

11:05 to 11:25

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 addre[redacted]

[redacted] AKRON 14 OHio

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

(Circle One) Yes (No)

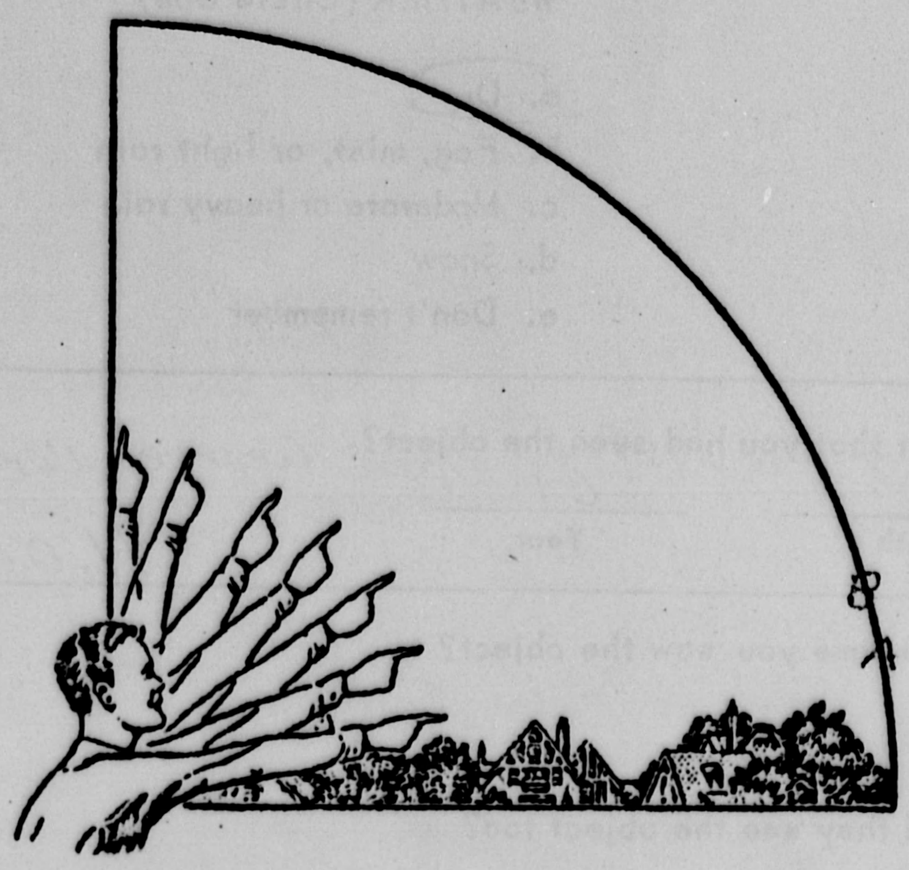
37.1 IF you answered NO, then when, where, and under what circumstances did you see other ones?

THANKSGIVING Night AT 1105 P.M. Night Same as above.

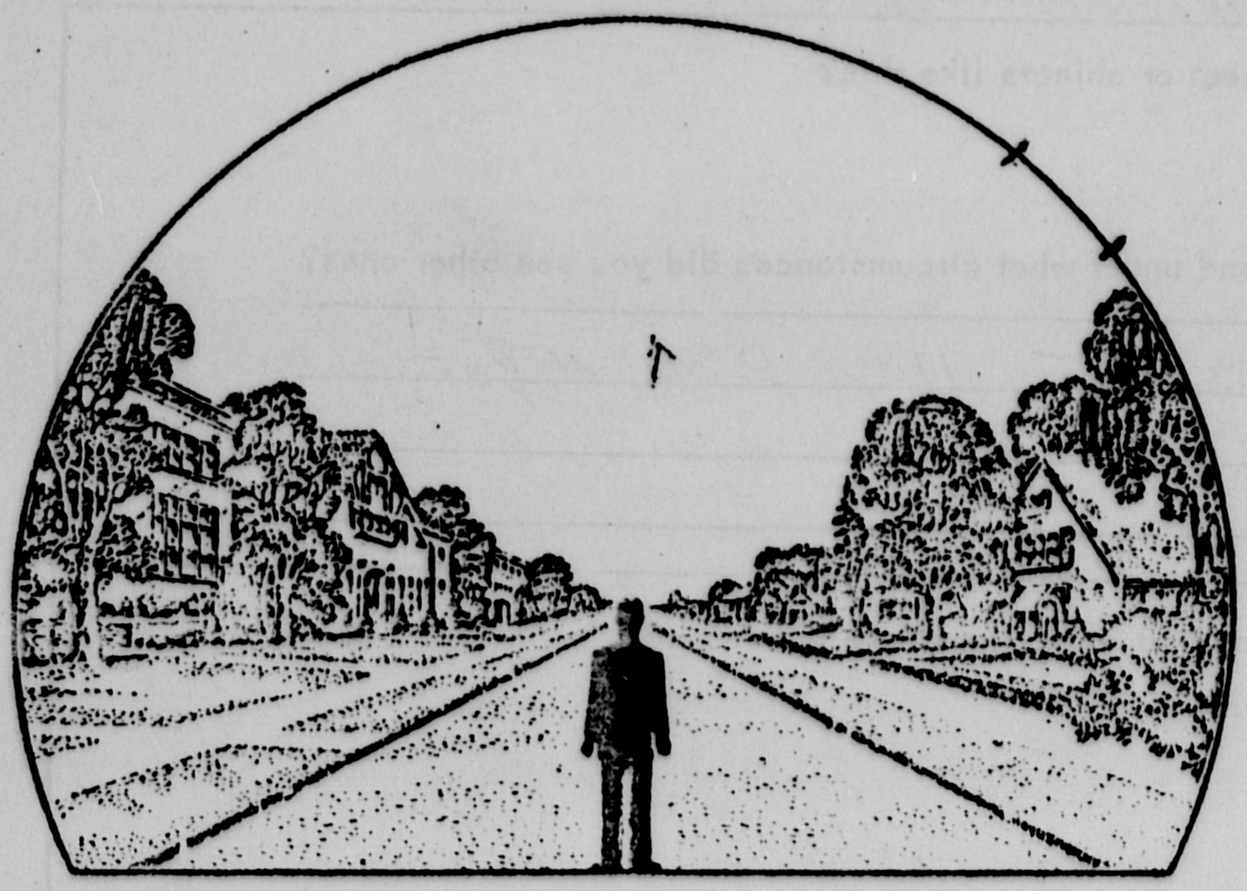
38. In your opinion what do you think the object was and what might have caused it?

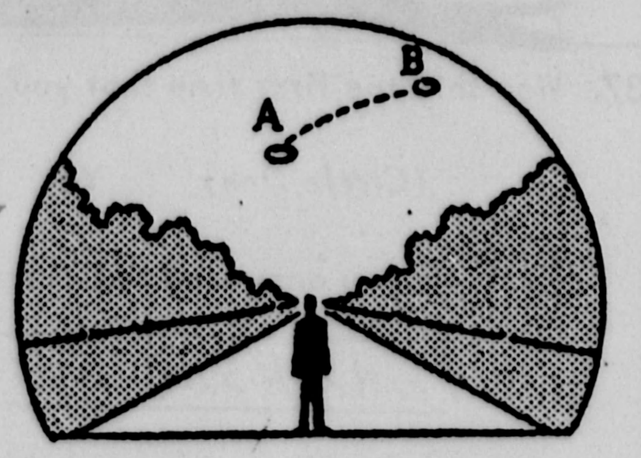
Have no Idea.

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.





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 _____

(Do Not Write in This Space)

CODE:

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? _____

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

(Circle One) (Yes) No

IF you answered YES, then how far away would you say it was? 200. to 300. FT.

41. Please give the following information about yourself:

NAME [redacted] (Last Name) [redacted] (First Name) _____ (Middle Name)

ADDRESS [redacted] (Street) AKRON (City) 14 (Zone) OHIO. (State)

TELEPHONE NUMBER [redacted]

Age 46 Sex Male

Indicate any additional information about yourself, including any education, which might be pertinent.

42. Date you completed this questionnaire: 23 (Day) 3 (Month) 61 (Year)

Witnessed

[redacted]

SLIDES

JAN. 21, 1961

AKRON, OHIO

OBSERVER: PULLIAM

FILE # 1003573

~~Excessively of Publication Desired~~

Retained in file

1975

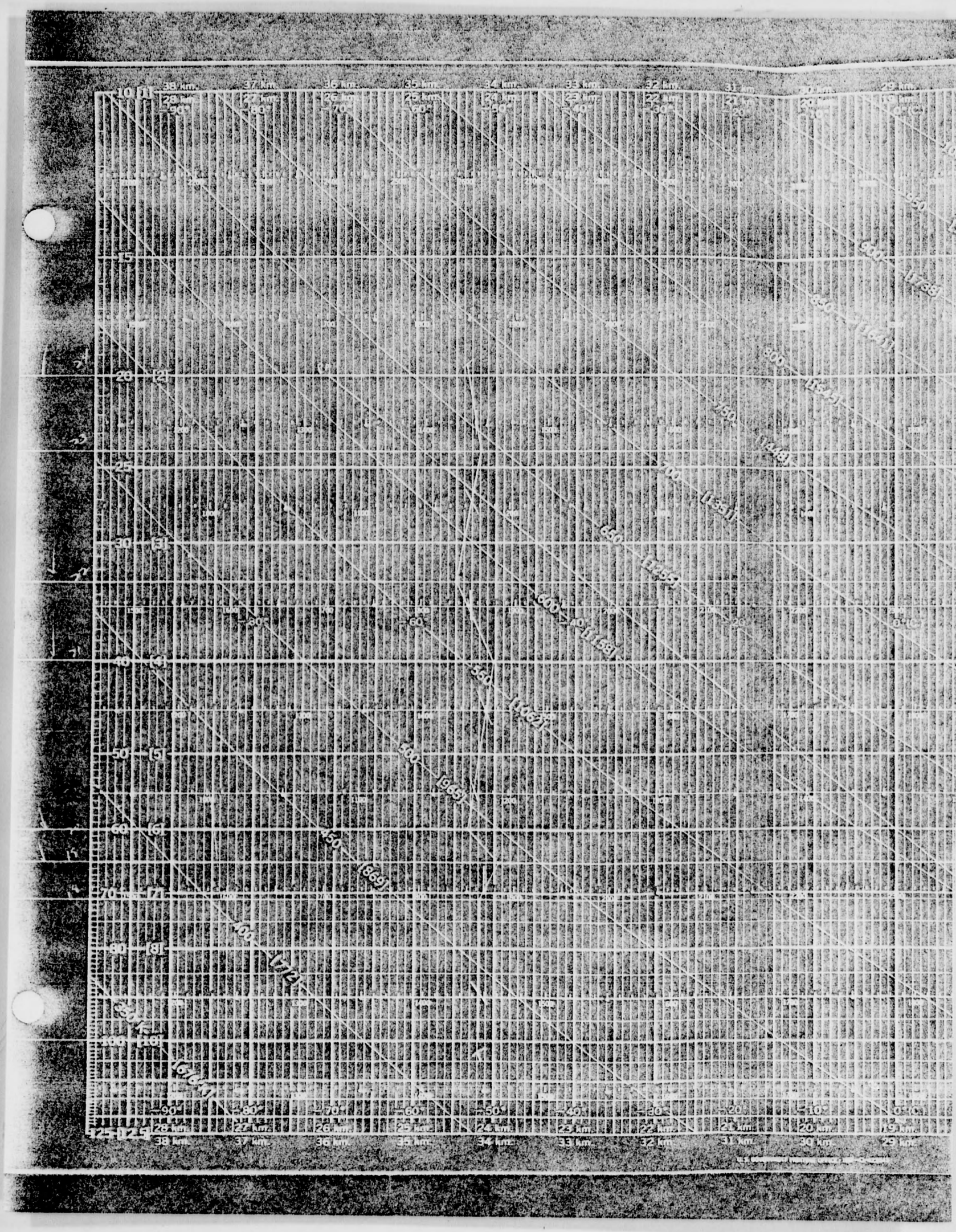
AKRON, OHIO

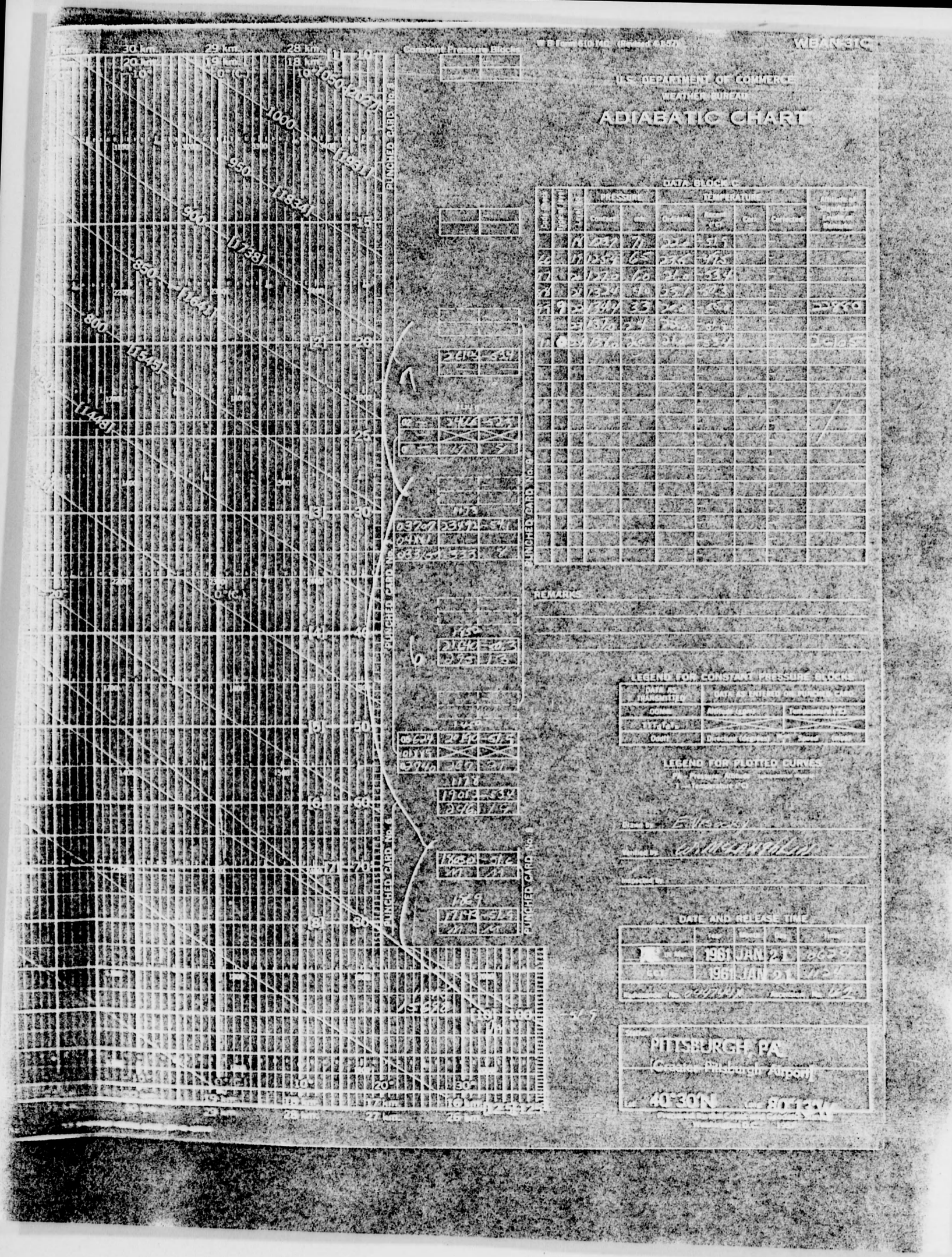
21 Jan 61

CASE INCLUDES

18 ADIABATIC CHARTS

35 COLOR SLIDES (IN separate folder)




WBAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK
PRESSURE
TEMPERATURE
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1961 JAN 21
1961 JAN 21
PITTSBURGH, PA.
(Greater Pittsburgh Airport)
40°30'N
80°13'W
PUNCHED CARD No. 1
PUNCHED CARD No. 2
PUNCHED CARD No. 3
PUNCHED CARD No. 4
PUNCHED CARD No. 5
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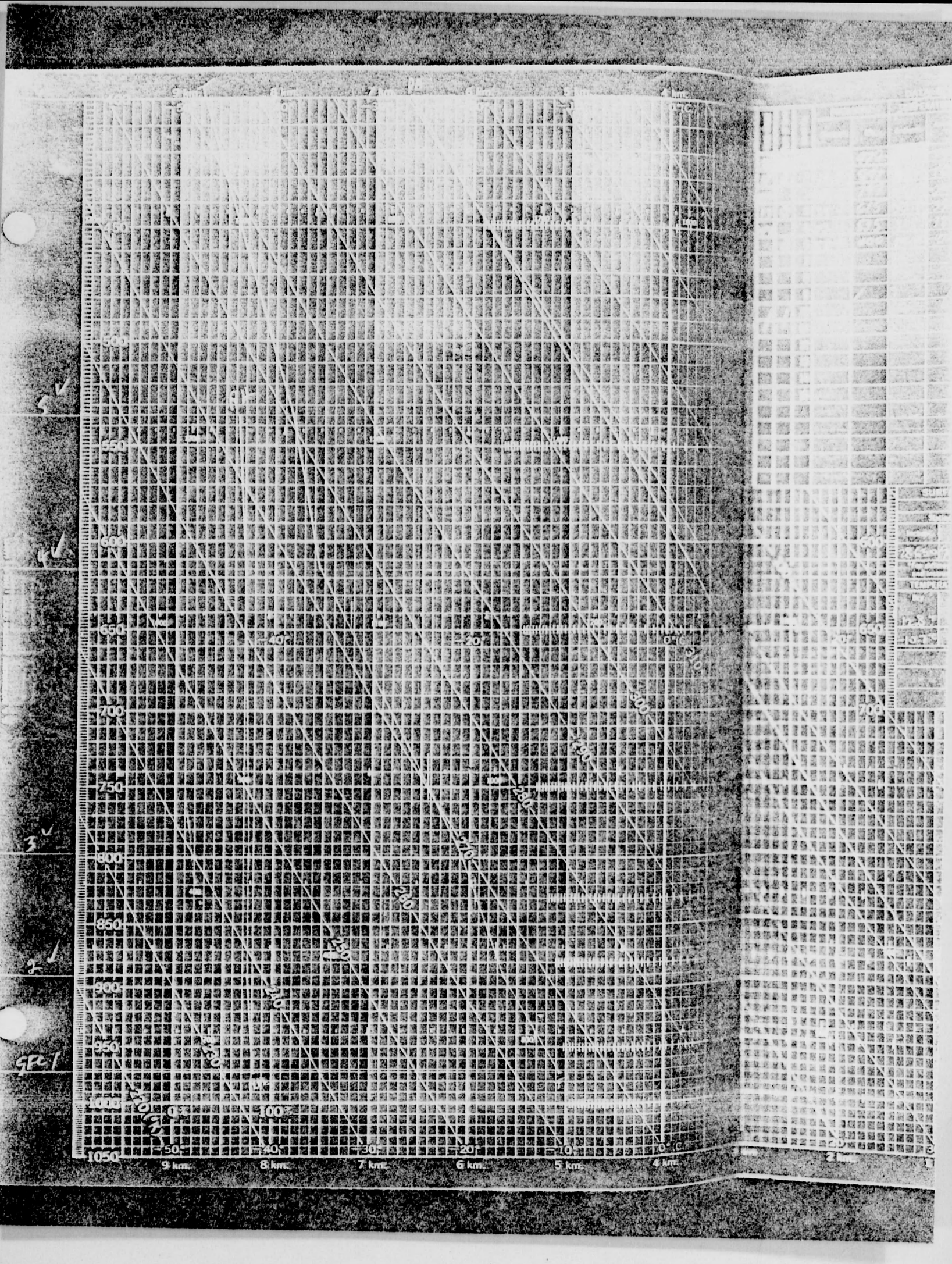
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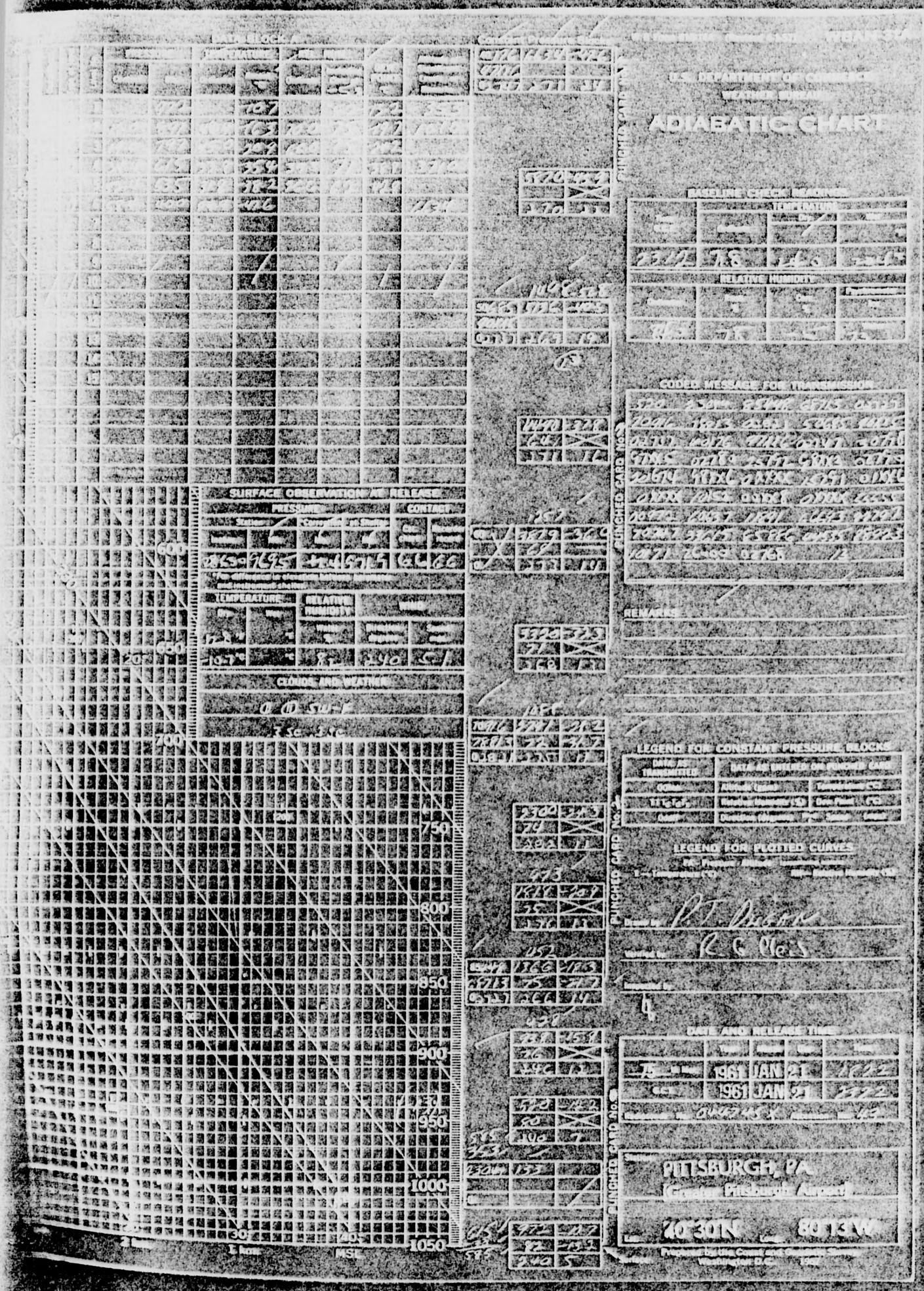
ADIABATIC CHART
BASELINE CHECK MEASURES
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RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
CLOUDS AND WEATHER
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIMES
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1961 JAN 21
PITTSBURGH, PA
(Greater Pittsburgh Airport)
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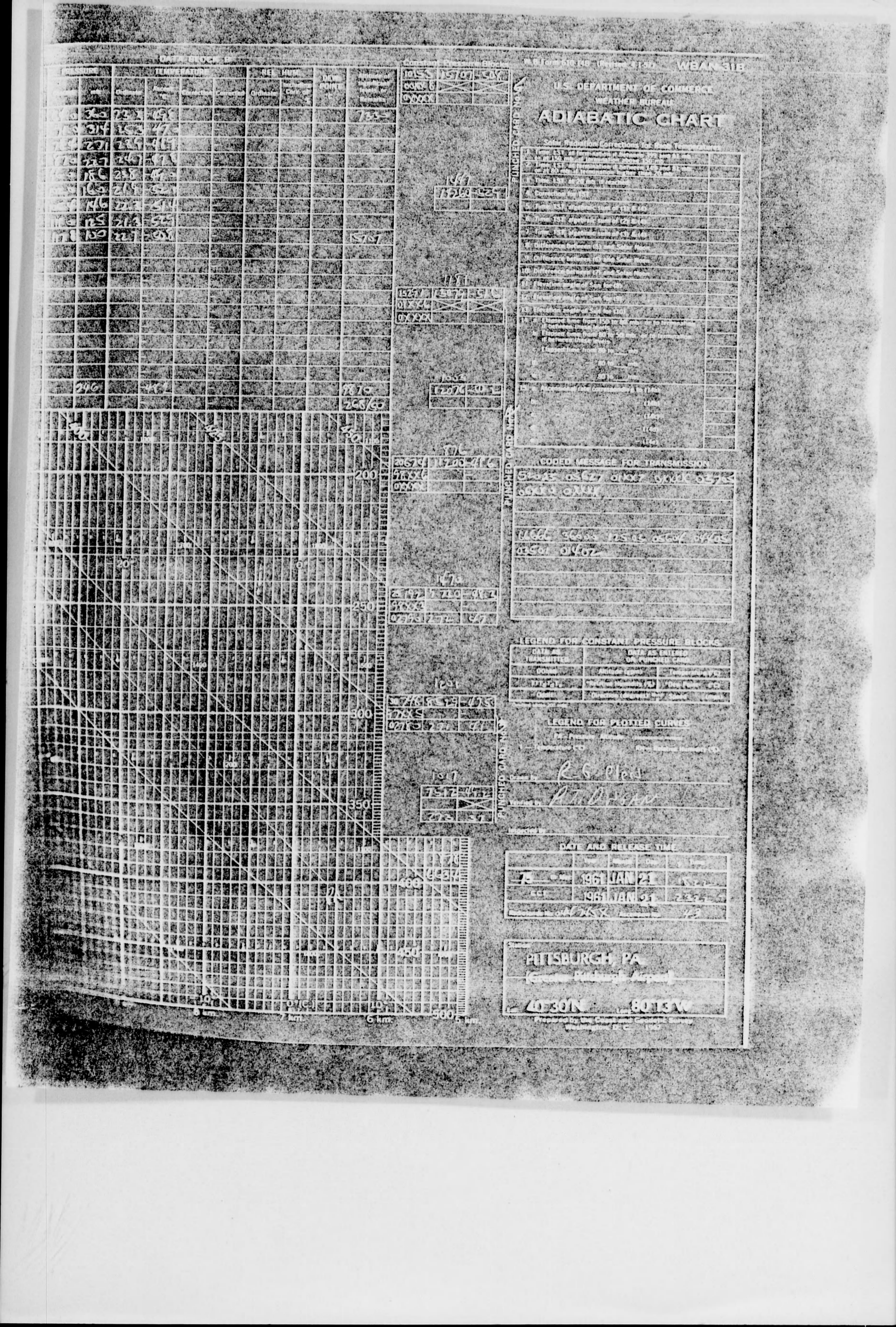
WBAN 31B
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
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LEGEND FOR PLOTTER CURVES
DATE AND RELEASE TIME
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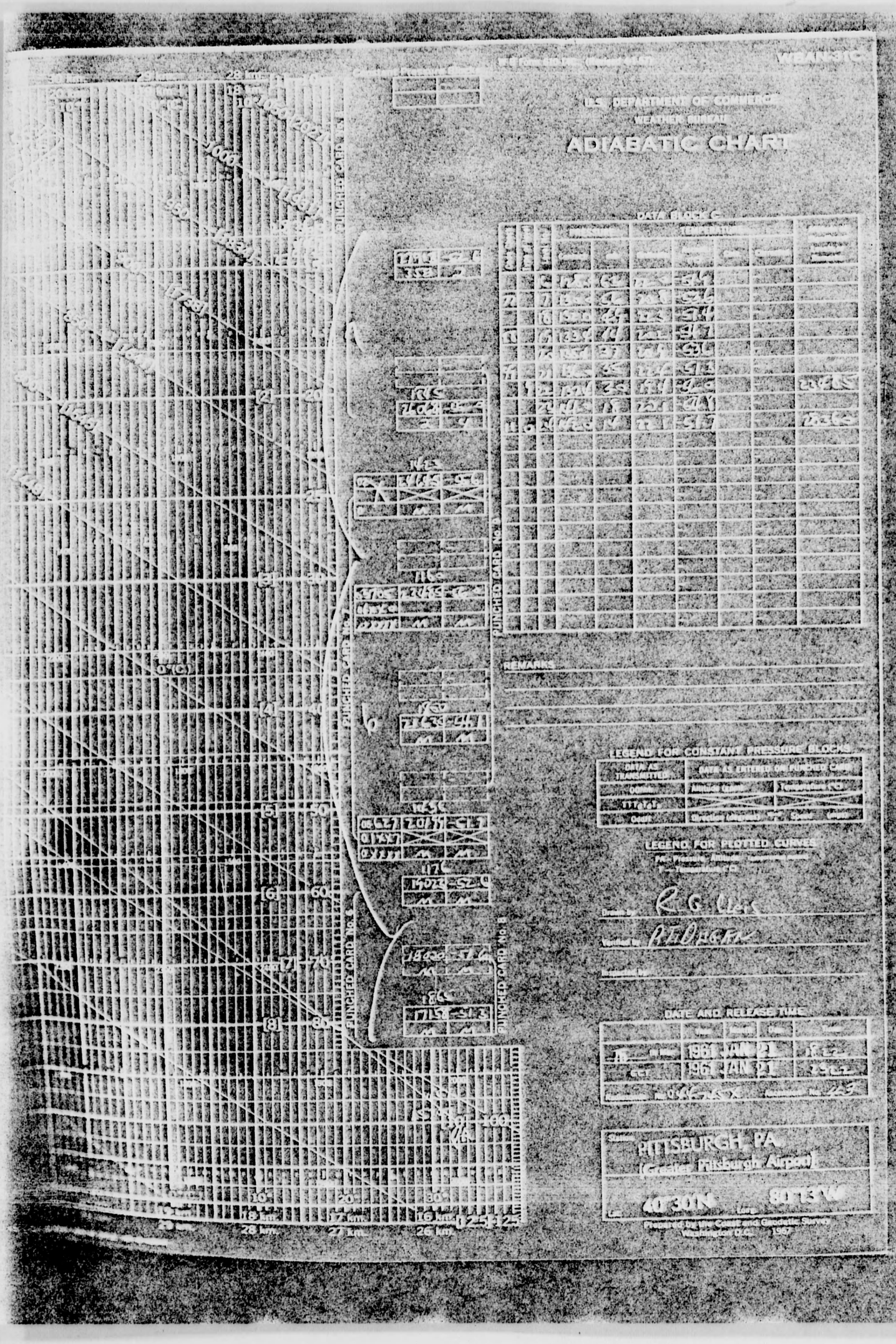
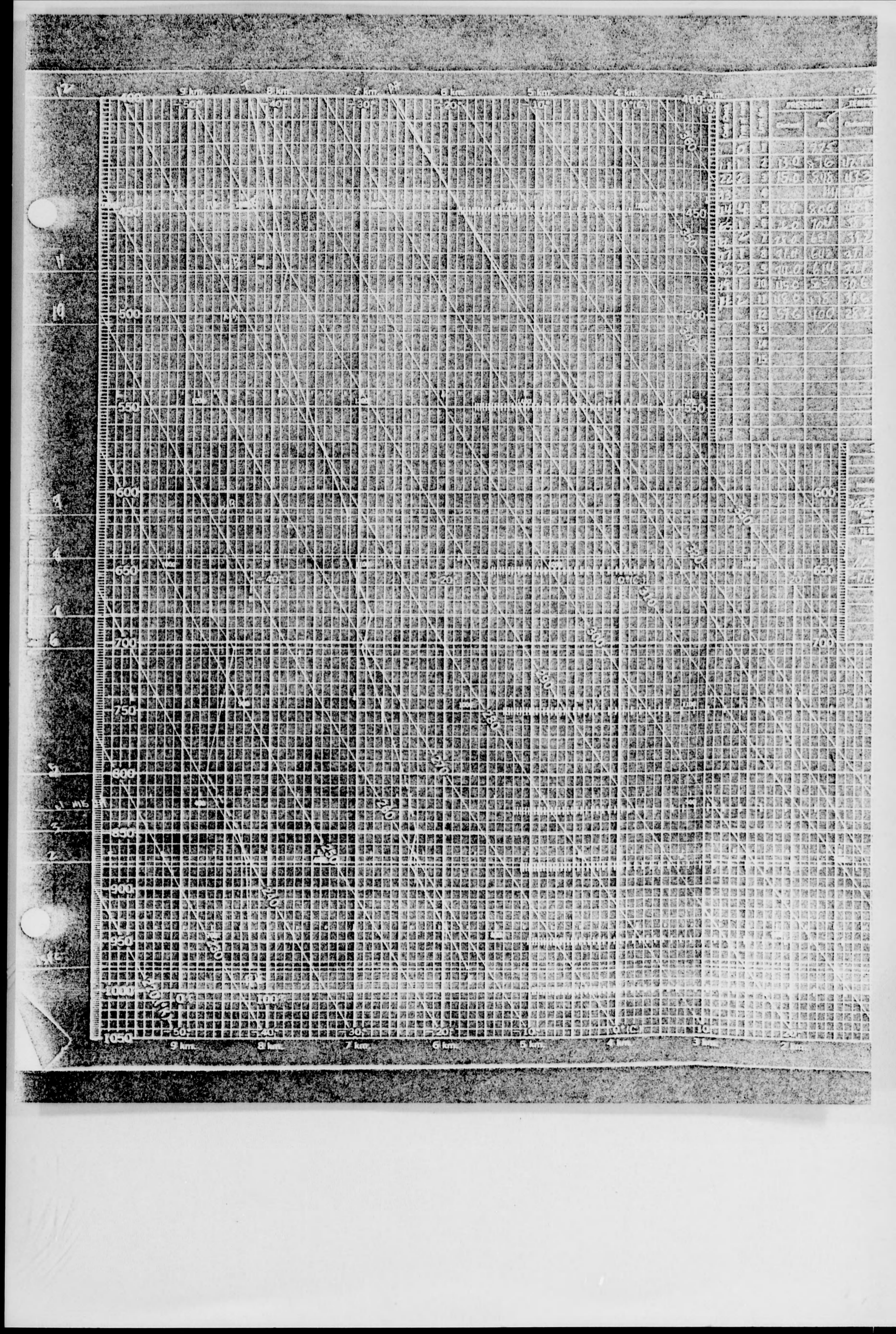
9990
10000


WBAN/STC
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
DATA BLOCKS
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
DATA AS TRANSMITTED
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
PITTSBURGH, PA.
(Greater Pittsburgh Airport)
40°30'N
80°13'W



WBAN Form 31

U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU

ADIABATIC CHART

DATA BLOCK

Station	Time	Pressure	Temperature	Wind	Dew Point	Height
	01		72.5		57.5	
	02	1000	70.0	070	55.2	1152
	03	950	64.8	080	54.0	1550
	04		61.1	090		
	05	900	60.0	090	49.0	1960
	06	850	56.0	090	45.2	2400
	07	800	51.8	090	41.0	2870
	08	750	47.0	090	36.2	3370
	09	700	42.0	090	31.0	3910
	10	650	37.0	090	25.8	4500
	11	600	31.6	090	20.6	5150
	12	550	28.2	090		
	13					
	14					
	15					

SURFACE OBSERVATION AT RELEASE

Pressure		Contact			
Station	Sea Level	Pressure Change	Time		
0823	29.70	+.02	0755	64	48

Temperature	Relative Humidity	Wind
72.5	50	10

Clouds and Weather

CONSTANT PRESSURE BLOCKS

1000	75.8	57.8
73.8	62	49
0752	47	29
950	64.8	54.0
89.8	52	34
0838	47	29
900	60.0	49.0
85.0	52	34
0823	47	29
850	56.0	45.2
80.0	52	34
0808	47	29
800	51.8	41.0
75.0	52	34
0752	47	29
750	47.0	36.2
70.0	52	34
0737	47	29
700	42.0	31.0
65.0	52	34
0723	47	29
650	37.0	25.8
60.0	52	34
0708	47	29
600	31.6	20.6
55.0	52	34
0652	47	29
550	28.2	

BASELINE CHECK READINGS

	Temperature			
Station				
1112	1120	1128	1136	

	Relative Humidity			

CODED MESSAGE FOR TRANSMISSION

REMARKS

LEGEND FOR CONSTANT PRESSURE BLOCKS

Data in Millimeters	Data in Millimeters Plus or Minus Change
Contact	Pressure Change
Time	Time
Contact	Contact

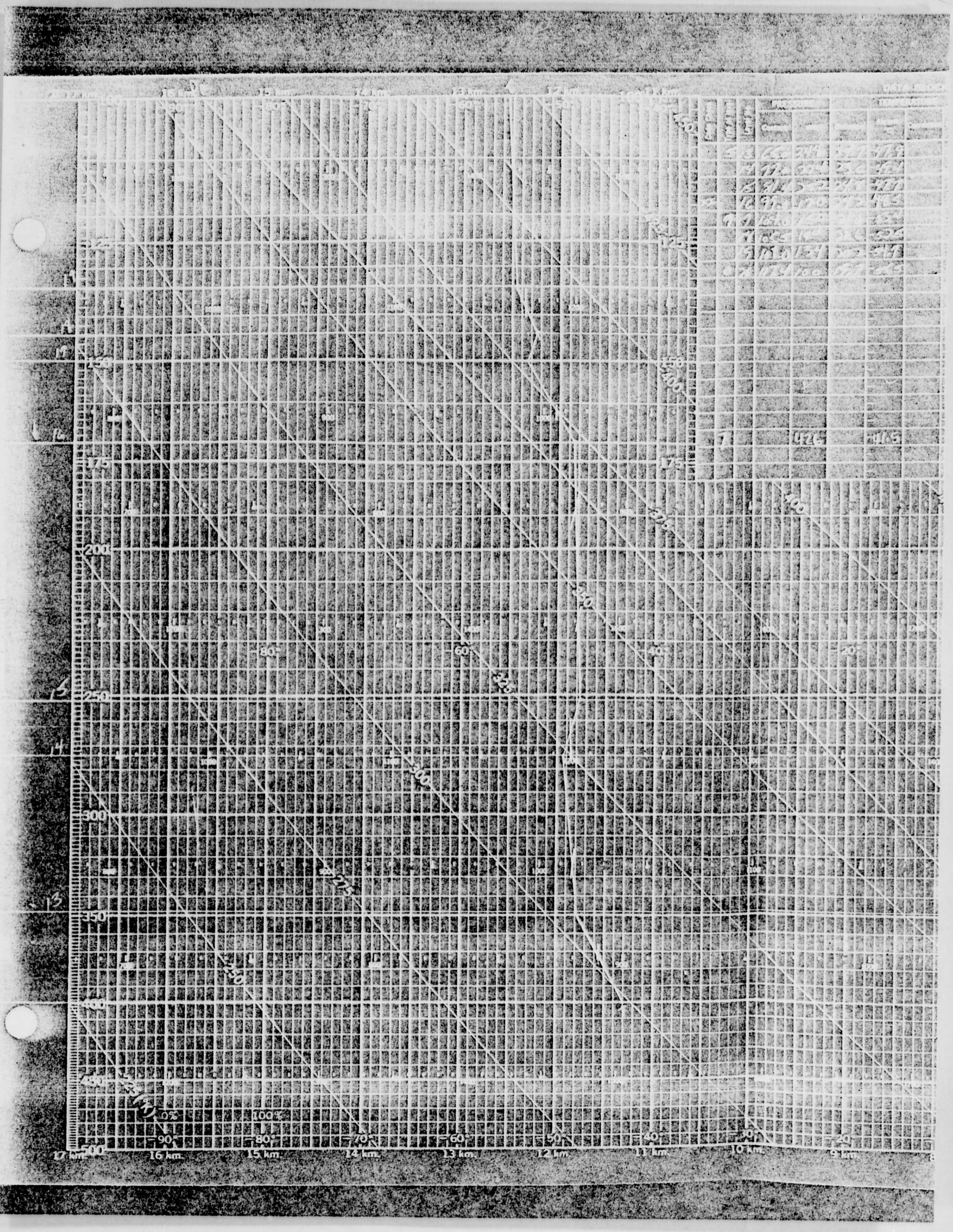
LEGEND FOR PLOTTED CURVES

DATE AND RELEASE TIME

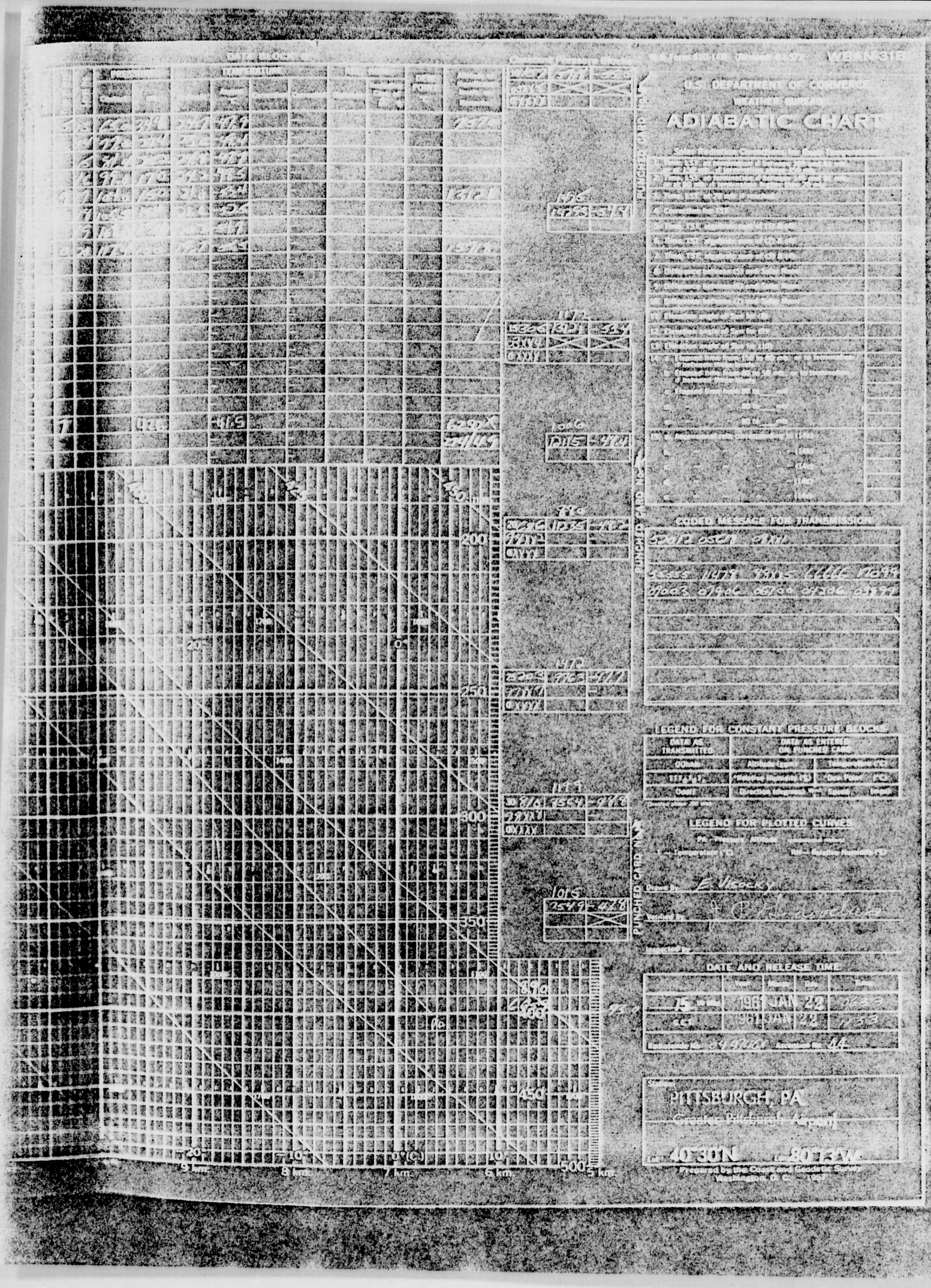
CST	1915	1944	72	48
CST	1915	1944	72	48

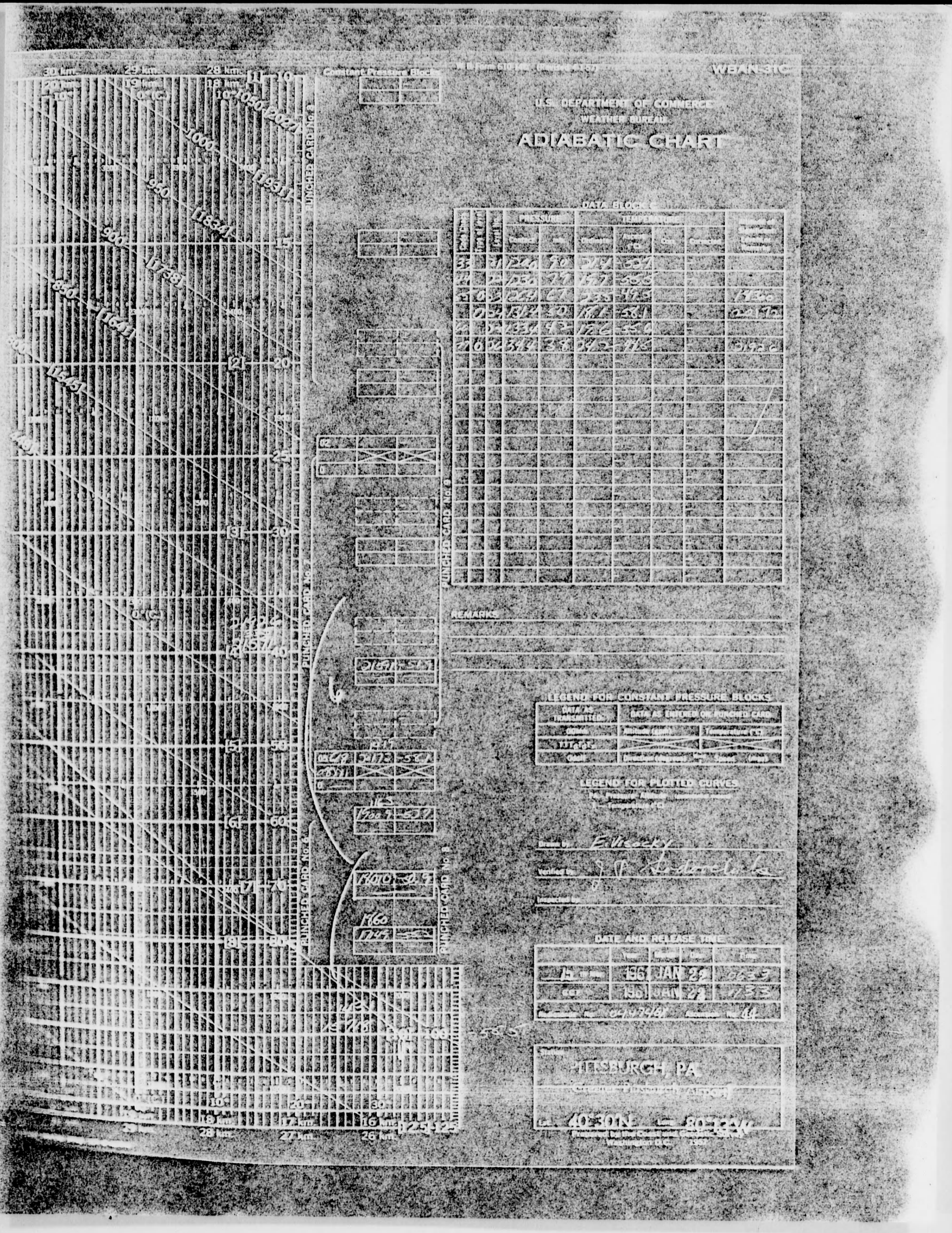
PITTSBURGH, PA.
Greater Pittsburgh

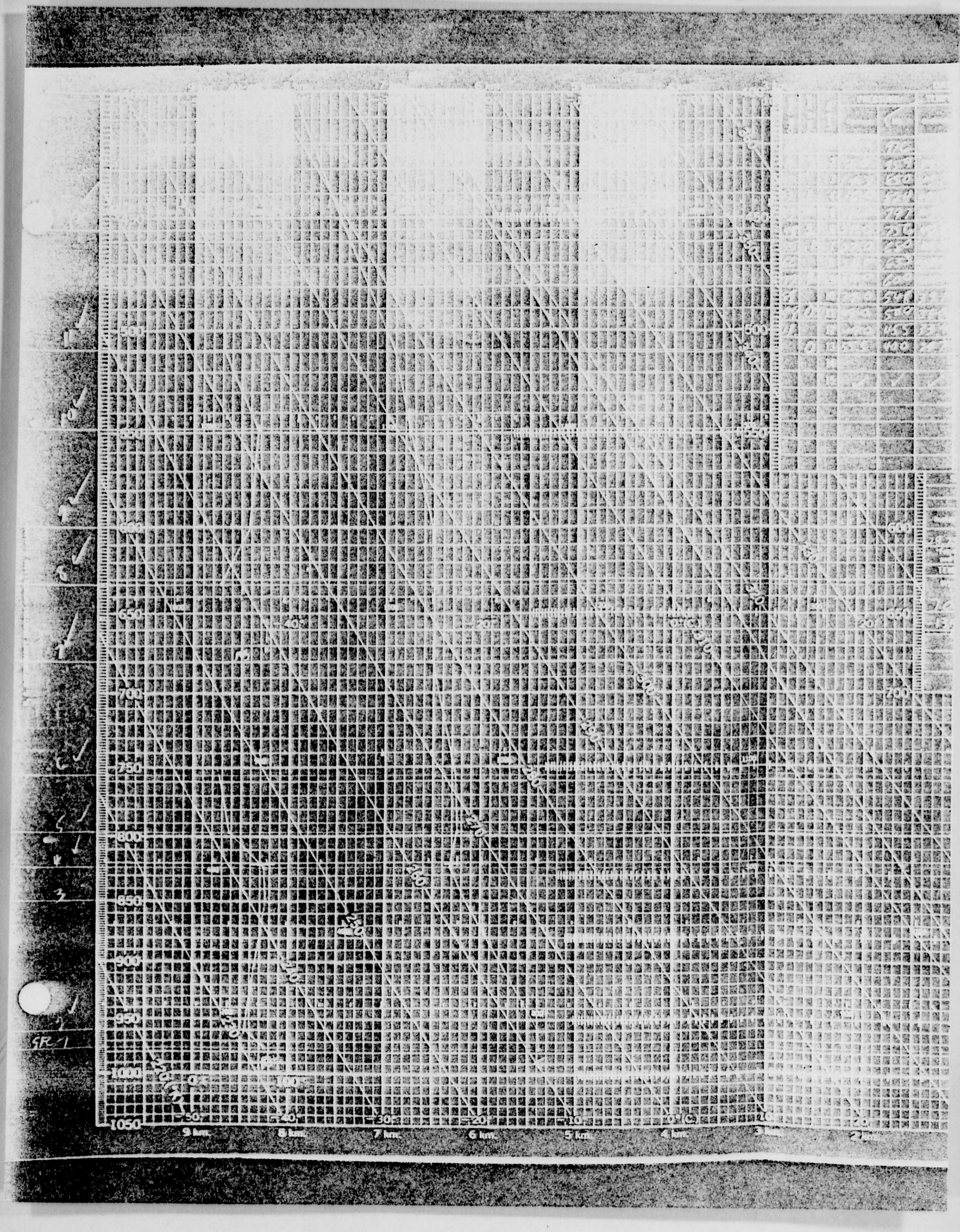
40° 30' N 80° 13' W

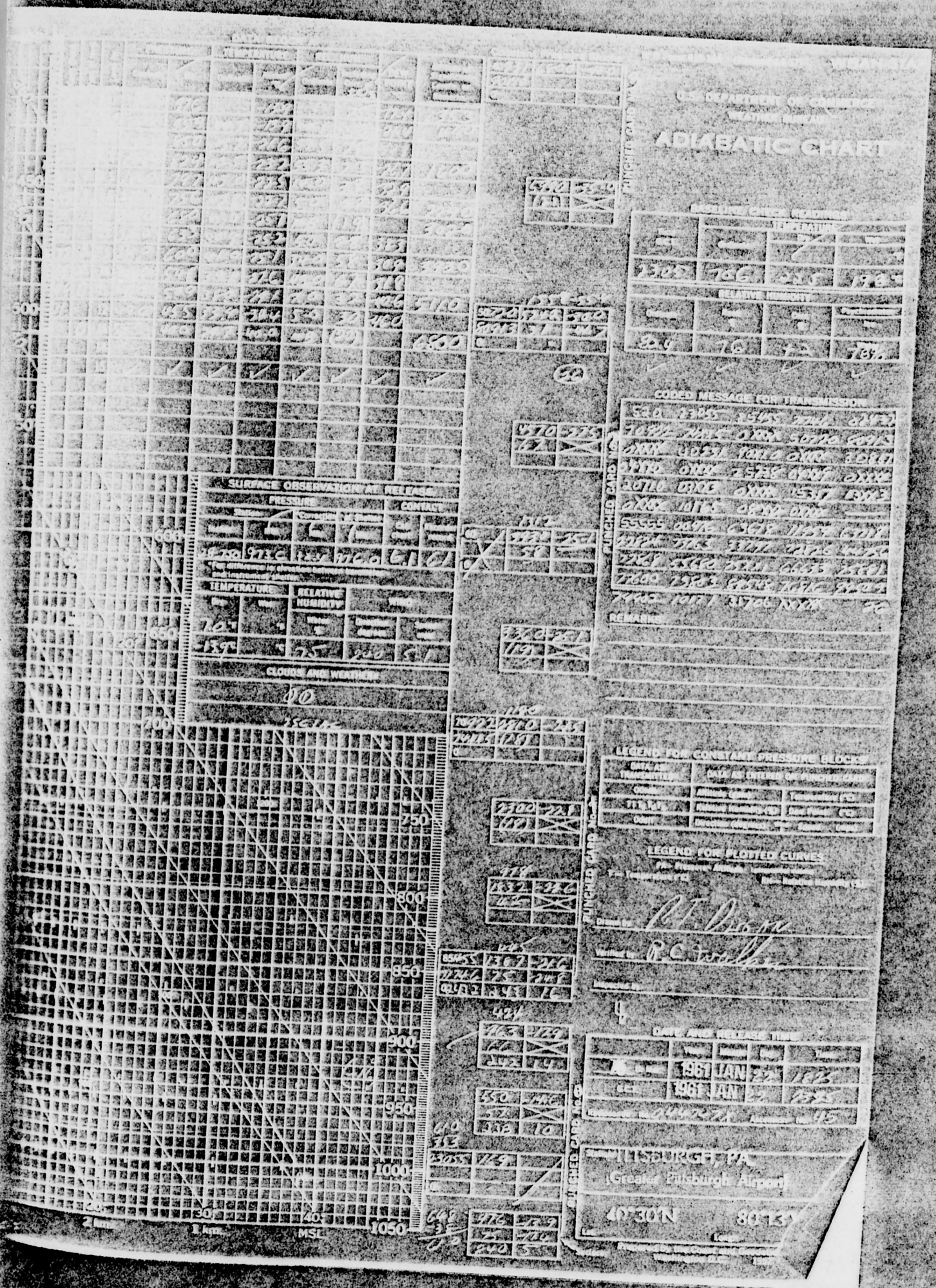


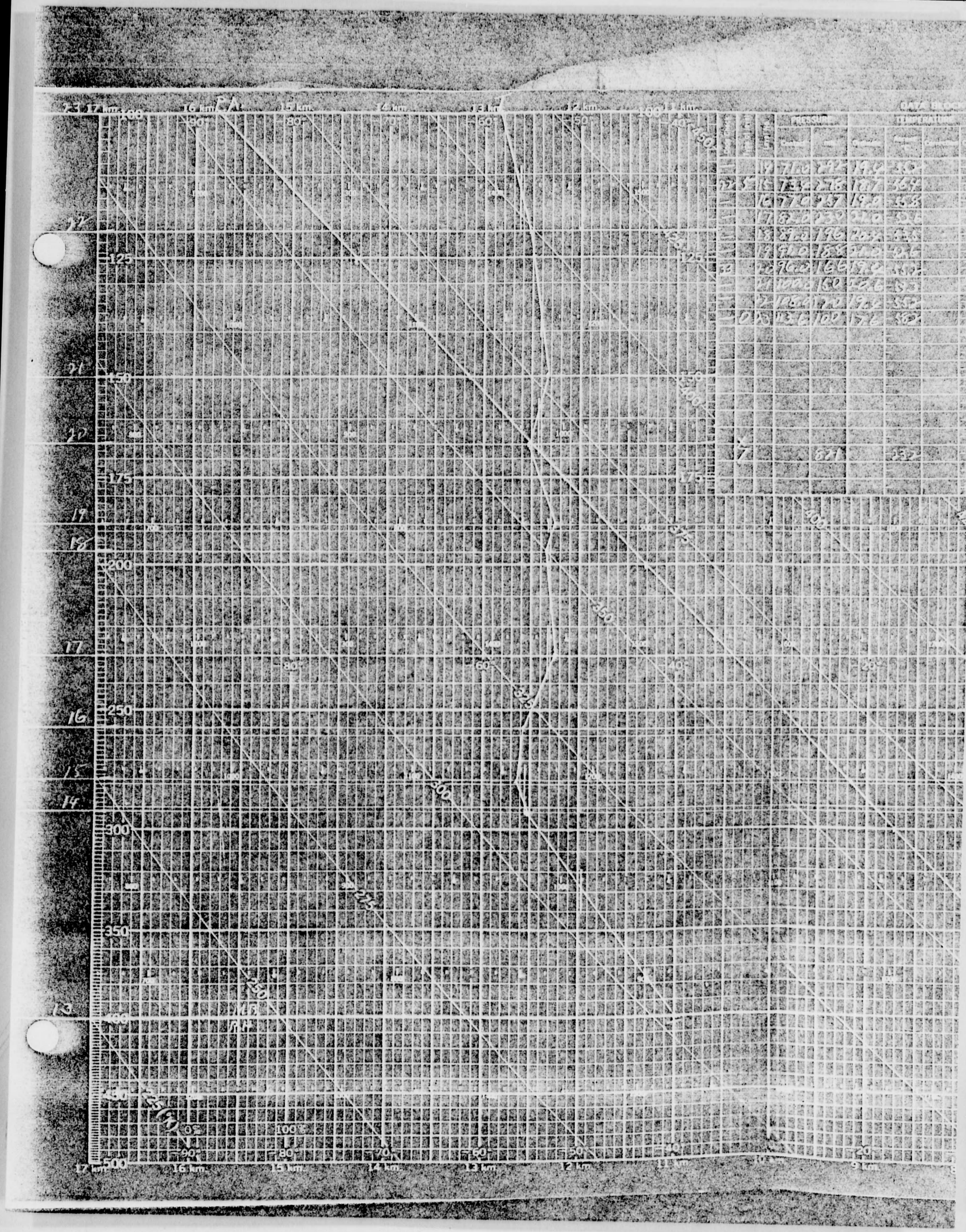
175
200
250
300
350
400
0%
100%
90
80
70
60
50
40
30
20
17 km
16 km
15 km
14 km
13 km
12 km
11 km
10 km
9 km

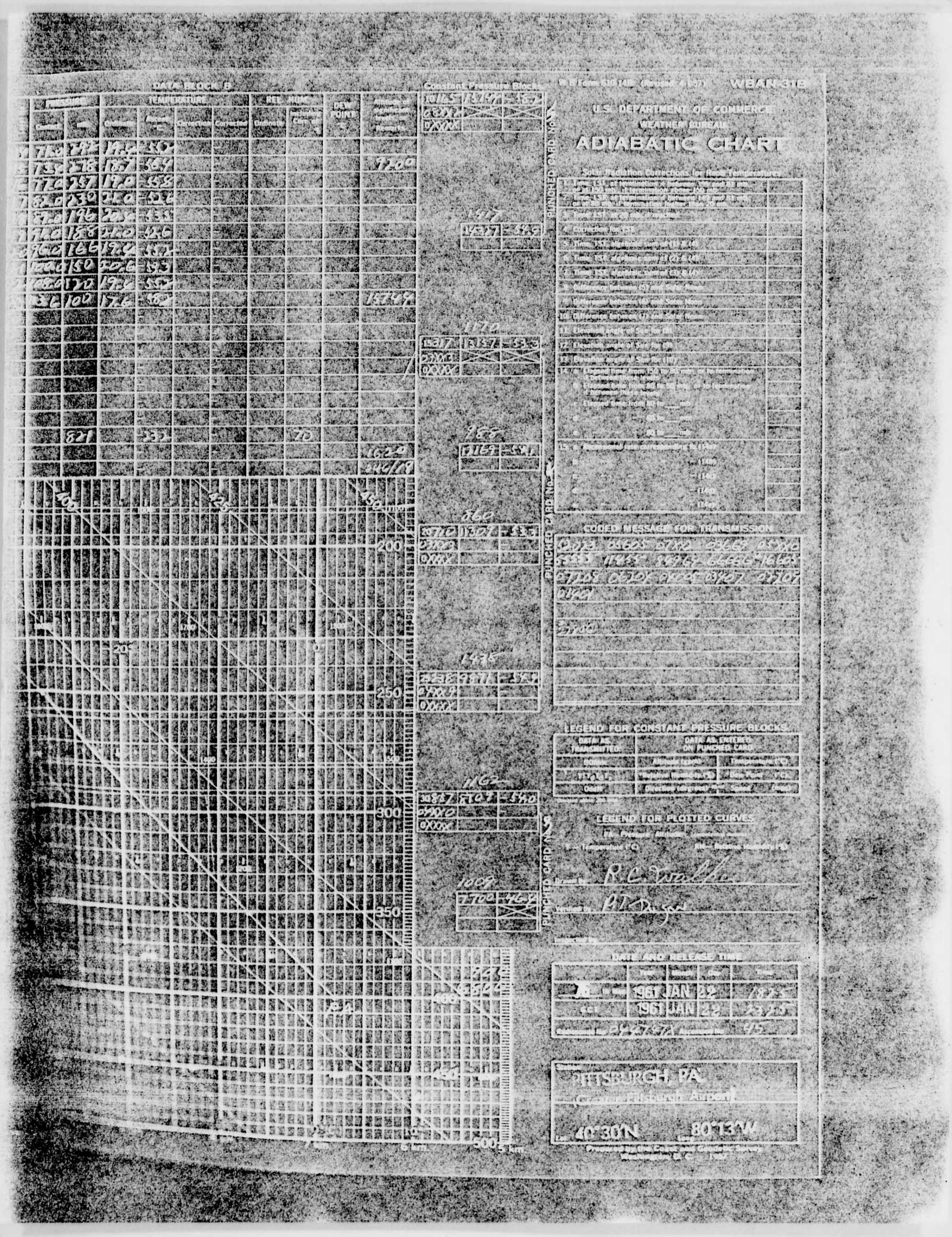

WBAN 31E
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
PITTSBURGH, PA
40°30'N
80°13'W
200
250
300
350
500
5 km
8 km
7 km
6 km
5 km

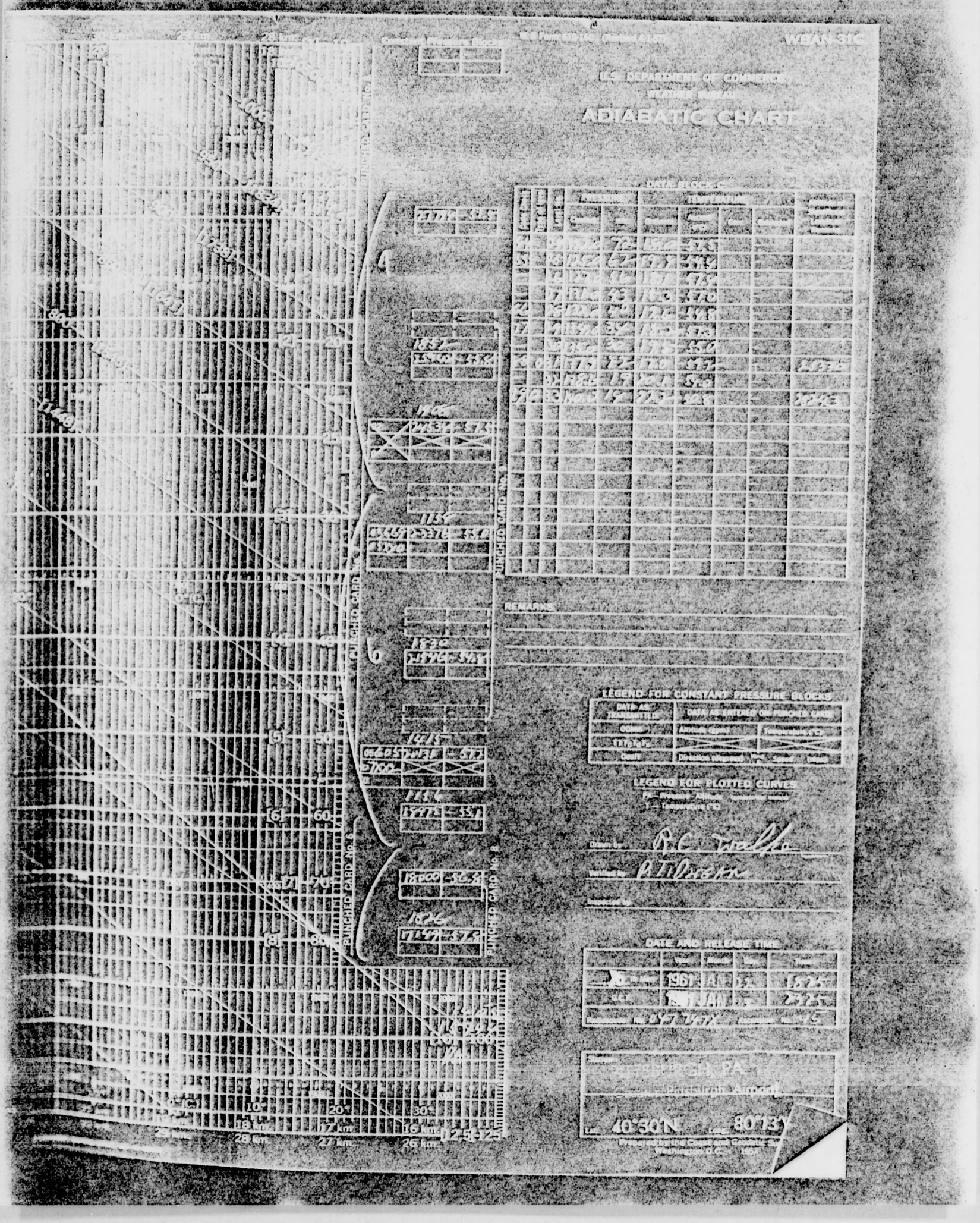

WEAN-31C
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCKS
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
PITTSBURGH, PA
40°30'N
80°13'W
PUNCHED CARD No. 1
PUNCHED CARD No. 2
PUNCHED CARD No. 3
PUNCHED CARD No. 4
PUNCHED CARD No. 5




ADIABATIC CHART
SURFACE OBSERVATION RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
CLOUDS AND WEATHER
CODED MESSAGE FOR TRANSMISSION
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1961 JAN
1961 JAN
(Greater Pittsburgh Airport)
40°30'N
80°13'
2 km
1 km
MSL
750
800
850
900
950
1000
1050




WEAN-31B
U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
DATA BLOCK B
Constant Pressure Block
PUNCHED CARD No.
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1961 JAN 22
1961 JAN 22
PITTSBURGH, PA.
40°30'N
80°13'W


WBAN-31C
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
DATA BLOCKS
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
Pittsburgh Airport
40°30'N
80°13'
28 km
27 km
26 km

WBAN 10A
Formerly WB Form 1394 (Rev. 1-1-65)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO - AKRON-CANTON AIRPORT DATE JAN. 20, 1961 (FRIDAY)

TYPE	TIME (LST)	SKY AND CEILING (Hundreds of Feet)	VISIBILITY (Miles)	WEATHER AND OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (mb)	TEMP (°F)	DEW PT (°F)	WIND DIRECTION	WIND SPEED (MPH)	WIND CHARACTERISTICS AND REMARKS	ALTIM. SETTING (Inches)	REMARKS AND SUPPLEMENTAL WEATHER DATA	PILOT'S REPORTS
R	0058	20 ⓓ E 50 ⊕	15	SW -	105	44	8	SW	15		1177	9 0402	
SM	0100	521 8 3315	74	B57 105	114	28	25	XX	28	110	1170	28 4 426 14 3000	
R	0158	E 40 ⓓ 90 ⊕	10	SW -	108	13	8	SW	11		1178		
R	0258	15 ⓓ E 25 ⓓ	7	SW -	119	18	8	W	14	20	1181	ⓓ V ⓓ	
RS	0358	E 15 ⊕	6	SW -	115	15	6	W	10		1180	010 15 4	
RS	0458	8	15+		122	9	1	W	10		1191	SE 30	
R	0558	8	15+	-	125	8	0	W	8		1192		
R	0658	8	15+		125	4	-3	W	10		1201	7 0402 3 0004	
SM	0700	521 ⓞ 3 3 10	44 02 ⊕		125	04	00	900	9		14	7 0 0 3 2 7 0 0 ⓓ 4 4 6 0 3	
R	0758	ⓞ	12		129	3	3	W	7		1185		
R	0858	ⓞ	15		129	5	0	W	10		1189		
R	0958	100 ⓓ	12		132	11	4	W	8		1197	8 10 1030	
R	1058	100 ⓓ	12		132	13	4	W	9		1197		
R	1158	20 ⓓ 100 ⓓ	12		132	14	4	W	7		1197		
R	1258	200 ⓓ E 100 ⓓ	12		133	18	7	WNW	12		1205	5 8 15 E 37	
SM	1300	521 6 30 10	49	260	135	18		WNW	0	07	1207	7 0 0 12 3 0 0 0 2 7 18 0 3	
R	1358	M 25 ⓓ 100 ⓓ	12		139	18	4	W	10		1214		
R	1458	25 ⓓ E 80 ⓓ	12		139	18	8	W	9		1212		
S	1521	M 20 ⓓ 80 ⓓ	2½	SW -				W	6			S 8 10	
RS	1558	M 20 ⓓ 80 ⊕	4	SW -	135	17	7	W	6		1185	S 8 10 1 500 D 70 B 45 V 4 10	
R	1658	E 35 ⓓ 80 ⓒ	7	SW -	142	16	5	W	6		1186		
R	1758	35 ⓓ E 100 ⓓ	7		142	14	7	W	5		1186	SE 30	
R	1858	M 10 ⓓ	8	SW -	146	14	8	W	3		1187	S 8 10	
SM	1900	521 6 2 30 3	69	858	147	65	00	090	20		7	0 0 12 3 0 0 0 4 14 0 3	
R	1958	95 ⓓ	8	SW -	146	14	7	W	3		1187		
R	2058	80 ⓓ	5	SW -	146	11	10	W	4		1187		
R	2158	E ⓞ 25 ⓞ	7	SW -	146	10	7	W	3		1187	400 1700 ⓓ V ⓓ 4 4 5 8	
S	2258	M 10 ⓓ 25 ⓓ	7	SW -				W	3				
S	2315	10 ⓓ 25 ⓓ	6	SW -				W	0				
R	2358	M 10 ⓓ 25 ⓓ	6	SW -	142	11	8		0		1196		
R	2458	25 ⓓ	3	SW -	139	11	7		0		1195		

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO AKRON - CANTON AIRPORT DATE JAN 20 1961 FRIDAY

TIME (L.S.T.)	STATION PRESSURE (INS.)	DRY BULB (°F.)	WET BULB (°F.)	REL. HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA: LOWEST LAYER AMT.	LOWEST LAYER TYPE & DIR.	LOWEST LAYER HEIGHT	SECOND LAYER AMT.	SECOND LAYER TYPE & DIR.	SECOND LAYER HEIGHT	SUMMATION TOTAL	THIRD LAYER AMT.	THIRD LAYER TYPE & DIR.	THIRD LAYER HEIGHT	SUMMATION TOTAL	FOURTH LAYER AMT.	FOURTH LAYER TYPE & DIR.	FOURTH LAYER HEIGHT	TOTAL OPAQUE SKY COVER	PRESSURE TENDENCY	WET BULB CHANGE	HOLY PERM	
00 58	28.470	14.0	13.1	76	10	3	Sc	20	7	Sc	E50	10	U				U			10	1	030	T	
01 58	28.480	13.2	12.5	78	10	7	Sc	E20	3	Ac	90	10	U				U			10			T	
02 58	28.510	13.6	12.0	80	7	3	Sc	12	4	Sc	E25	7	0			7	0			7			T	
03 58	28.500	11.6	11.0	79	10	10	Sc	E15	U				U				U			10	0	030	T	
04 58	28.510	8.8	8.9	69	0	0			0			0	0			0	0			0			T	
05 58	28.520	5.3	5.8	81	0	0			0			0	0			0	0			0				
06 58	28.540	3.9	3.3	72	0	0			0			0	0			0	0			0	2	040		
07 58	28.550	3.3	2.9	76	0	0			0			0	0			0	0			0				
08 58	28.550	5.3	4.9	77	0	0			0			0	0			0	0			0				
09 58	28.570	11.1	10.2	73	2	2	Ac	100	0			2	0			2	0			2	2	030		
10 58	28.570	13.0	11.6	67	3	3	Ac	100	0			3	0			3	0			3				
11 58	28.565	14.2	12.6	64	5	1	Sc	20	4	Ac	100	5	0			5	0			5				
12 58	28.550	17.7	15.7	63	8	6	Sc	20	3	Ac	E100	8	0			8	0			8	8	030	T	
13 58	28.540	16.3	15.6	53	9	1	Sc	M25	3	Ac	100	9	0			9	0			9			T	
14 58	28.520	18.4	15.4	50	8	3	Sc	25	5	Ac	E80	8	0			8	0			8			T	
15 58	28.550	17.0	15.2	65	10	8	Sc	M20	2	Ac	80	10	0			10	0			9	5	000	T	
16 58	28.560	16.1	14.2	62	10	6	Sc	E35	4	Ac	80	10	0			10	0			8			T	
17 58	28.560	14.0	13.0	74	8	3	Sc	25	5	Ac	E100	8	0			8	0			7			T	
18 58	28.570	13.9	13.0	76	7	7	Sc	M40	0			7	0			7	0			7	2	020	T	
19 58	28.570	13.8	12.8	74	5	5	Sc	35	0			5	0			5	0			5			T	
20 58	28.570	11.0	10.5	80	4	4	Sc	30	0			4	0			4	0			4			T	
21 58	28.570	10.4	10.2	85	4	2	Fs	15	2	Sc	25	4	0			4	0			4	4	000	T	
22 58	28.550	11.2	11.0	86	5	2	Fs	10	3	Sc	25	5	0			5	0			5			T	
23 58	28.550	10.6	10.6	89	6	6	Sc	25	0			6	0			6	0			2			T	

SYNOPTIC OBSERVATIONS

TIME (L.S.T.)	TIME (L.S.T.)	NO.	PRECIP. (INS.)	SNOW FALL (INS.)	SNOW DEPTH (INS.)	MAX. TEMP. (°F.)	MIN. TEMP. (°F.)	HGT. 100 MB. SURFACE	STATE OF GRND.	SEA STATE & DIR.	SWELL HGT. & DIR.	SWELL PERIOD	SURF. OF L.S. M.S.D.	WATER TEMP.	SOIL TEMP.	RAIN GAGE	
	MID. TO 0245	X	T	T	X	15	14	X	X	X	X	X	X	X	X	.02	
	0245	1	.02	.4	2	17	14		9							.02	
	0645	1	T	.3	2	14	3		9							.02	
	1245	1	T	T	2	18	3		9							02/6	
	1850	1	T	T	2	19	14		9							0	
	MID.	X	T	T	2	14	10	X	X	X	X	X	X	X	X	0	

STATION PRESSURE COMPUTATIONS

TIME (L.S.T.)	0857	0655	1255	1855
ATT. THERM.				
DISTRIB. MAX.				
TOTAL COMP.				
STA. PRESS.	28470	28510	28550	28570
MAX. COMP.	28470	28550	28550	28555
MIN. COMP.	0	+010	+000	+015

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

24 HR. MAX. TEMP.	24 HR. MIN. TEMP.	24 HR. PRECIP. WATER EQUIV.	24 HR. SNOWFALL (UNMLTD.)	SNOW DEPTH	PEAK GUST SPEED	PEAK GUST DIR.	PEAK GUST TIME	THICK. NEW OF WATER	FROZEN GRND. LAYER TOP	FROZEN GRND. LAYER BASE	RIVER GAGE	24 HR. MAX.	24 HR. MIN.	MAX. TEMP.	PRECIP. & THDR.	BEGAN	ENDED	DUR.	DISTR. TO HR.	BEGAN	ENDED	DUR.
															SW	0470	0430					
															SW	1215	1231					
																1510	1600					

| | | |

A	1615		1/16	S	120	8	4	→	A		9164						
R	1516	M 16 D	4	S	121	9	4	→	5		9164						
R	1516	M 16 D	5	SW	121	9	4	→	5		9164						
R	1516	M 16 D	6	SW	121	9	4	→	5		9164						
R	1516	M 16 D	7	SW	121	9	4	→	5		9164						
R	1516	M 16 D	8	SW	121	9	4	→	5		9164						
R	1516	M 16 D	9	SW	121	9	4	→	5		9164						
R	1516	M 16 D	10	SW	121	9	4	→	5		9164						
R	1516	M 16 D	11	SW	121	9	4	→	5		9164						
R	1516	M 16 D	12	SW	121	9	4	→	5		9164						
R	1516	M 16 D	13	SW	121	9	4	→	5		9164						
R	1516	M 16 D	14	SW	121	9	4	→	5		9164						
R	1516	M 16 D	15	SW	121	9	4	→	5		9164						
R	1516	M 16 D	16	SW	121	9	4	→	5		9164						
R	1516	M 16 D	17	SW	121	9	4	→	5		9164						
R	1516	M 16 D	18	SW	121	9	4	→	5		9164						
R	1516	M 16 D	19	SW	121	9	4	→	5		9164						
R	1516	M 16 D	20	SW	121	9	4	→	5		9164						
R	1516	M 16 D	21	SW	121	9	4	→	5		9164						
R	1516	M 16 D	22	SW	121	9	4	→	5		9164						
R	1516	M 16 D	23	SW	121	9	4	→	5		9164						
R	1516	M 16 D	24	SW	121	9	4	→	5		9164						
R	1516	M 16 D	25	SW	121	9	4	→	5		9164						
R	1516	M 16 D	26	SW	121	9	4	→	5		9164						
R	1516	M 16 D	27	SW	121	9	4	→	5		9164						
R	1516	M 16 D	28	SW	121	9	4	→	5		9164						
R	1516	M 16 D	29	SW	121	9	4	→	5		9164						
R	1516	M 16 D	30	SW	121	9	4	→	5		9164						
R	1516	M 16 D	31	SW	121	9	4	→	5		9164						
R	1516	M 16 D	32	SW	121	9	4	→	5		9164						
R	1516	M 16 D	33	SW	121	9	4	→	5		9164						
R	1516	M 16 D	34	SW	121	9	4	→	5		9164						
R	1516	M 16 D	35	SW	121	9	4	→	5		9164						
R	1516	M 16 D	36	SW	121	9	4	→	5		9164						
R	1516	M 16 D	37	SW	121	9	4	→	5		9164						
R	1516	M 16 D	38	SW	121	9	4	→	5		9164						
R	1516	M 16 D	39	SW	121	9	4	→	5		9164						
R	1516	M 16 D	40	SW	121	9	4	→	5		9164						
R	1516	M 16 D	41	SW	121	9	4	→	5		9164						
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R	1516	M 16 D	46	SW	121	9	4	→	5		9164						
R	1516	M 16 D	47	SW	121	9	4	→	5		9164						
R	1516	M 16 D	48	SW	121	9	4	→	5		9164						
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R	1516	M 16 D	50	SW	121	9	4	→	5		9164						
R	1516	M 16 D	51	SW	121	9	4	→	5		9164						
R	1516	M 16 D	52	SW	121	9	4	→	5		9164						
R	1516	M 16 D	53	SW	121	9	4	→	5		9164						
R	1516	M 16 D	54	SW	121	9	4	→	5		9164						
R	1516	M 16 D	55	SW	121	9	4	→	5		9164						
R	1516	M 16 D	56	SW	121	9	4	→	5		9164						
R	1516	M 16 D	57	SW	121	9	4	→	5		9164						
R	1516	M 16 D	58	SW	121	9	4	→	5		9164						
R	1516	M 16 D	59	SW	121	9	4	→	5		9164						
R	1516	M 16 D	60	SW	121	9	4	→	5		9164						
R	1516	M 16 D	61	SW	121	9	4	→	5		9164						
R	1516	M 16 D	62	SW	121	9	4	→	5		9164						
R	1516	M 16 D	63	SW	121	9	4	→	5		9164						
R	1516	M 16 D	64	SW	121	9	4	→	5		9164						
R	1516	M 16 D	65	SW	121	9	4	→	5		9164						
R	1516	M 16 D	66	SW	121	9	4	→	5		9164						
R	1516	M 16 D	67	SW	121	9	4	→	5		9164						
R	1516	M 16 D	68	SW	121	9	4	→	5		9164						
R	1516	M 16 D	69	SW	121	9	4	→	5		9164						
R	1516	M 16 D	70	SW	121	9	4	→	5		9164						
R	1516	M 16 D	71	SW	121	9	4	→	5		9164						
R	1516	M 16 D	72	SW	121	9	4	→	5		9164						
R	1516	M 16 D	73	SW	121	9	4	→	5		9164						
R	1516	M 16 D	74	SW	121	9	4	→	5		9164						
R	1516	M 16 D	75	SW	121	9	4	→	5		9164						
R	1516	M 16 D	76	SW	121	9	4	→	5		9164						
R	1516	M 16 D	77	SW	121	9	4	→	5		9164						
R	1516	M 16 D	78	SW	121	9	4	→	5		9164						
R	1516	M 16 D	79	SW	121	9	4	→	5		9164						
R	1516	M 16 D	80	SW	121	9	4	→	5		9164						
R	1516	M 16 D	81	SW	121	9	4	→	5		9164						
R	1516	M 16 D	82	SW	121	9	4	→	5		9164						
R	1516	M 16 D	83	SW	121	9	4	→	5		9164						
R	1516	M 16 D	84	SW	121	9	4	→	5		9164						
R	1516	M 16 D	85	SW	121	9	4	→	5		9164						
R	1516	M 16 D	86	SW	121	9	4	→	5		9164						
R	1516	M 16 D	87	SW	121	9	4	→	5		9164						
R	1516	M 16 D	88	SW	121	9	4	→	5		9164						
R	1516	M 16 D	89	SW	121	9	4	→	5		9164						
R	1516	M 16 D	90	SW	121	9	4	→	5		9164						
R	1516	M 16 D	91	SW	121	9	4	→	5		9164						
R	1516	M 16 D	92	SW	121	9	4	→	5		9164						
R	1516	M 16 D	93	SW	121	9	4	→	5		9164						
R	1516	M 16 D	94	SW	121	9	4	→	5		9164						
R	1516	M 16 D	95	SW	121	9	4	→	5		9164						
R	1516	M 16 D	96	SW	121	9	4	→	5		9164						
R	1516	M 16 D	97	SW	121	9	4	→	5		9164						
R	1516	M 16 D	98	SW	121	9	4	→	5		9164						
R	1516	M 16 D	99	SW	121	9	4	→	5		9164						
R	1516	M 16 D	100	SW	121	9	4	→	5		9164						

WBAN NO.
Formerly WB Form 1130A (1150)
(Rev. 1-1-56)

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO AKRON-CANTON AIRPORT DATE JAN 21 1957 SATURDAY

TYPE	TIME (CST)	SKY AND CEILING (HUNDREDS OF FEET)	VISIBILITY (MILES)	WEATHER AND OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (MB)	TEMP (°F)	DEW PT. (°F)	WIND DIRECTION	WIND SPEED (MPH)	WIND CHARACTER AND SHIFTS	ALTIMETER SET (INS.)	REMARKS AND SUPPLEMENTAL COOLED DATA	CODED WIND (MPH)
R	0052	25 (1)	3	Sno	1116	11	07	C			9983		M12
SM	0100	5E1 300000	4½	SW- 139	11	5	E				9	8 0 0 4 - 4 4 9 0 3	M12
RS	0157	(1)	3½	BR	1125	9	7		4		9915	SE30	M12
R	0252	E2- (1)	2½	SNO FK	1125	10	7		3		9902	SE30	M12
R	0352	E2- (1)	2	SNO FK	1124	10	7		C		9881	60? 1C 1	M11
R	0452	E1-(1)	½	SN FK	1115	10	7		5		9879	VSBY 30 N W ½	M12
R	0552	E2-(1)	½	SN F	1115	9	7		5		9879	B1N0N6	M12
R	0652	E2-(1)	2	SN F	1119	9	6		5		9880	90402	M12
SM	0700	E2 (1) 20	5	SN FK	1119	09					9865	B 0 0 2 8 2 4 1 9 0 9	M12
RS	0753	1 1 2 (1)	1½	SN F	1124	9	4		7		9911		M11
RS	0854	1 1 (1)	1	SN F	1126	9	4		4		9924		M11
RS	0954	1 1 (1)	½	SN FK	1126	10	6		14		9922	11 1 1 0 0 . 4 5 4 2	M22
R	1052	90 (1)	½	SN F	1129	13	7		7		9935		M12
R	1152	150 (1)	½	SN F	1130	15	12		10		9944		M12
R	1252	70 (1)	½	SN F	1126	16	13		10		9932		M12
SM	1300	1 1 2 (1)	1	SN	1125	16	13	09	4	E	9931	7 0 0 4 3 3 0 0 0 2 4 1 0 3	M12
RS	1353	2 0 (1)	½	SN	1126	16	13		11		9918		M12
	1452	2 0 (1)	½	SN	1129	15	13		7		9918		M12

WBAN 30A
Formerly WB Form 1130A (Obs)
(Rev. 1-1-55)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO AKRON-CANTON AIRPORT DATE JAN 24 1959 SATURDAY

TYPE (1)	TIME (LST) (2)	SKY AND CEILING (Hundreds of Feet) (3)	VISIBILITY (Miles) (4)	WEATHER AND OBSTRUCTIONS TO VISION (5)	SEA LEVEL PRESS. (MB) (6)	TEMP (°F) (7)	DEW PT (°F) (8)	WIND DIRECTION (9)	WIND SPEED (MI) (10)	CHARACTER AND UNITS (11)	ELEV. OF EVEN LEVEL (Hundreds of Feet) (12)	REMARKS AND SUPPLEMENTAL CODED DATA (13)	CODED VERIS. (MIN.) (14)
R	0052	25 ⊕	3	SW	11.9	11	7		C		923		
SM	0103	224 30000	1½	K BR 129	77	12	6	09	07	RAIN	920	RAIN 4190 3	
RS	0157	⊕	1½	BR	12.9	9	7	11	05		931	SE30	
R	0252	22 ⊕	2½	SW BR	12.9	10	7	09	13		921	SE30	
R	0352	22 ⊕	2	SW BR	12.9	10	7		C		921	60 15	
R	0452	22 ⊕	1½	SW BR	11.9	10	7	13	04		919	VRB 30 RAIN 45	
R	0552	22 ⊕	1½	S BR	11.9	10	7	14	05		919	RAIN ON E	
R	0652	22 ⊕	2	S BR	11.9	9	6	14	05		920	20 20 2	
SM	0700	224 20000	1½	K BR 18	11.9	09	06	14	06		920	E 3 20000 4 19 09	
RS	0753	22 17 E	1½	BR	12.9	9	6	14	07		921		
R	0852	21 16 E	2	BR	13.0	9	6	14	08		921		
R	0952	20 15 E	1½	K BR	13.0	10	6	14	09		922	11 1500 9 54	
R	1052	20 15 E	1½	BR	13.9	12	7	14	07		926		
R	1152	15 E	1½	BR	13.9	13	8	14	10		926		
R	1252	10 E	1½	BR	13.9	14	8	14	10		926		
SM	1300	224 7 E	1½	K BR	13.9	14	8	09	12		926	7 20 3 30 2	

U. S. DEPARTMENT OF COMMERCE - WEATHER BUREAU

SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO AKRON - CANTON AIRPORT DATE JAN 21 1961 SATURDAY

TIME (C.S.T.)	STATION PRESSURE (INS.)	DRY BULB (°F.)	WET BULB (°F.)	REL. HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA: LOWEST LAYER AMT.	LOWEST LAYER TYPE OBSC. PHEN.	LOWEST LAYER HEIGHT	SECOND LAYER AMT.	SECOND LAYER TYPE OBSC. PHEN.	SECOND LAYER HEIGHT	PHENOM. THIRD LAYER WITHIN	THIRD LAYER AMT.	THIRD LAYER TYPE OBSC. PHEN.	THIRD LAYER HEIGHT	PHENOM. FOURTH LAYER TOTAL	FOURTH LAYER AMT.	FOURTH LAYER TYPE OBSC. PHEN.	FOURTH LAYER HEIGHT	TOTAL OPAQUE SKY COVER	HOURLY PRECIP. (INS.)	3 HR. PRESS. CHANGE	WEA. (PLAIN)
MID	28.520	10.8	10.6	96	6	6	SC	25	0			6	0			6	0			2	T	.40	T
01	28.520	9.2	9.2	99	0	0			0			0	0			0	0			0			T
02	28.520	9.9	9.9	99	10	10	SC	25	0				0			0	0			10			T
03	28.510	9.8	9.8	99	10	10	SC	25	0				0			0	0			10	T	.02	T
04	28.490	9.9	9.9	99	10	10	SC	25	0				0			0	0			10			T
05	28.490	9.2	9.2	99	10	10	SC	25	0			10	0			10	0			9			T
06	28.500	8.9	8.7	84	9	9	SC	25	0			9	0			9	0			9	T	.10	T
07	28.520	8.3	8.0	88	10	10	SC	17	0				0			0	0			10			T
08	28.540	8.3	8.3	99	10	10	SC	17	0				0			0	0			10			T
09	28.560	9.5	8.3	84	6	6	SC	17	0			6	0			6	0			6	T	.10	T
10	28.560	12.7	10.0	78	1	1	SC	20	0			1	0			1	0			1			
11	28.560	13.4	12.6	87	4	4	SC	20	0			4	0			4	0			4			
12 MID	28.560	14.4	14.0	97	2	2	SC	7	0			2	0			2	0			2	T	.10	
01	28.560	14.3	14.0	97	8	3	SC	20	6	SC	7	8	0			8	0			6			
02	28.580	14.4	13.4	74	10	7	SC	15	3	SC	30	10	0			10	0			10			
03	28.600	12.4	12.2	93	10	10	SC	7	0				0			0	0			10			T
04	28.620	11.4	10.9	81	10	6	SC	15	4	SC	20	10	0			10	0			10	T	.10	T
05	28.630	9.4	8.8	79	10	10	SC	20	0				0			0	0			10			T
06	28.630	9.4	8.9	81	10	10	SC	15	0				0			0	0			10			T
07	28.650	9.1	8.6	79	10	10	SC	15	0				0			0	0			10	T	.30	T
08	28.670	7.7	7.0	79	10	10	SC	20	0				0			0	0			10			T
09	28.680	5.0	4.1	86	10	6	SC	15	4	SC	25	10	0			10	0			10			T

SYNOPTIC OBSERVATIONS

TIME (C.S.T.)	TIME (L.S.T.)	NO.	PRECIP. (INS.)	SNOW FALL (INS.)	SNOW DEPTH (INS.)	MAX. TEMP. (°F.)	MIN. TEMP. (°F.)	HOT OR MAR. SURFACE	STATE OF GROUND	SEA STATE DIR.	SWELL DIR.	SWELL PERIOD	SURF. H.W. MAR.	WATER TEMP.	SOIL TEMP.	RAIN GAGE	
	MID TO 0830	X	T	.1	X	11	10	X	X	X	X	X	X	X	X	0	
	0830		T	.1	2	14	10		9							2	
	2645		.02	.2	2	11	9		9							2	
	2645		T	.4	3	11	8		9							10½	
	1850		.01	.3	3	12	11		9							16	
	MID	X	T	.1	3	11	5	X	X	X	X	X	X	X	X	01	

STATION PRESSURE COMPUTATIONS

TIME (L.S.T.)	0830	1654	1300	1836
ALT. THERM. (°F.)				
METOR. TAB. (°F.)				
TOTAL CORR. (°F.)				
ST. PRESS.	28.560	28.580	28.650	28.670
BAROGRAPH	28.560	28.580	28.650	28.670
BAR. CORR.	0	+.10	0	+.04

SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

MEAN WET BULB TEMP. (°F.)	MEAN DEW POINT (°F.)	MEAN RELATIVE HUMIDITY (%)	MEAN SNOWFALL DURING TIME (INS.)	SNOW DEPTH (INS.)	PEAK GUST SPEED (MPH)	PEAK GUST DIR. (TENS)	PEAK GUST TIME (L.S.T.)	TOTAL HRS. OF PRECIP. OR ICE ON WATER (HRS.)	TOTAL PRECIP. OR ICE ON WATER (INS.)	TIME PRECIP. BEGAN	TIME PRECIP. ENDED	HIGHEST WIND SPEED	HIGHEST WIND DIR. (TENS)	MAX. TEMP. (°F.)	MIN. TEMP. (°F.)	MEAN TEMP. (°F.)	DEPARTURE FROM NORMAL (°F.)
6																	

PRECIP. THRESHOLD	MONTH	DIGEST	DEP. FROM NORM.	DEPTH ON GROUND	MEAN	SNOW	DEP. FROM NORM.
.01	CENTS	0.30		F	0.30	0.30	
		0.30	0.30		15	15.30	0.30

WBAN 10A
(Formerly WB Form 1130A also 1130)
(Rev. 1-1-65)

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO - AKRON-CANTON AIRPORT DATE JAN 22 1961 SUNDAY

TYPE	TIME (EST)	SKY and CEILING (Hundreds of Feet)	VISIBILITY (Miles)	WEATHER and OBSTRUCTIONS TO VISION	SEA LEVEL PRESS. (mb)	TEMP (°F)	DEW PT. (°F)	WIND DIRECTION	WIND SPEED (MPH)	WIND CHARACTER AND GUSTS	ALTIM. (Corr. for Inst. Err.)	REMARKS AND SUPPLEMENTARY CODED DATA	RUNWAY VISUAL RANGES
R	0054	20 Ⓓ	15+	SW —	180	3	5	→	13		997		
SM	0100	SCT 2 24 13	74	85 8	200	35	26	SSW	9	G20	997	700 73 3000 3 4 1603	
R	0154	20 Ⓓ	15+	SW —	180	7	4	→	12		997		
R	0254	17 Ⓓ	15+	SW —	182	10	5	→	13		998	Ⓓ CEILG Ⓓ	
R	0354	17 Ⓓ	15+	SW —	186	10	6	→	15		999	Ⓓ 103 1500	
RS	0454	M17 Ⓓ	15+	SW —	183	7	6	→	13+20		999	Ⓓ V Ⓓ	
RS	0554	17 Ⓓ	15+	SW —	183	10	5	→	13+19		999	Ⓓ V Ⓓ	
R	0654	17 Ⓓ	15+	SW —	186	10	5	→	13+23		999	80 403	
SM	0700	SCT 2 24 13	74	85X	186	00		→	1400	26	999	700 83 3000 4 1600	
RS	0754	M10 Ⓓ	15+	SW —	193	7	3	→	16		999		
R	0854	M17 Ⓓ	15+		207	7	5	→	14		004	SPOS	
RS	0954	M17 Ⓓ	15+		203	3	-2	→	13		004	117 1404	
R	1054	M17 Ⓓ	15+		213	5	-1	→	14		006		
R	1154	20 Ⓓ M-Ⓓ	15+		216	8	3	→	15	22	006		
RS	1254	M17 Ⓓ	4	SW-FG	200	9	-1	→	17		003	SR4F	
SM	1300	7 22 17	56	70	200	09		24	00	G26	003	70 83 3000 4 1600	
R	1354	E M7 Ⓓ	12+		193	10	2	→	16	23	001	SPOS	
RS	1454	M30 Ⓓ	12+		193	12	2	→	15	22	001		RA
R	1554	M25 Ⓓ	12+		196	11	3	→	13+19		001	60 7 1500	RA
R	1654	25 Ⓓ E20 Ⓓ	10		196	11	4	→	14		002		RA
R	1754	25 Ⓓ E20 Ⓓ	7		200	9	-1	→	15		002		RA
R	1854	20 - Ⓓ	7		196	7	1	→	7		001		RA
SM	1900	SCT 32 10 7	6		196	07	00	27	10	G16	000	700 63 4 1200	RA
R	1954	35 Ⓓ	7	SW —	200	7	1	→	6		002	SPOS	RA
R	2054	M30 Ⓓ	7	SW —	196	7	3	→	4		001		RA
R	2154	M30 Ⓓ	7	SW —	196	7	3	→	3		000	80 7 1500	RA
R	2254	M30 Ⓓ	5	SW —	186	7	2	→	4		999		RA
R	2354	M30 Ⓓ	5	SW-FG	183	7	3	→	4		999		OVC

U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU

SURFACE WEATHER OBSERVATIONS

STATION AKRON, OHIO AKRON - CANTON AIRPORT DATE JAN 22 1961 SUNDAY

TIME (E.S.T.)	STATION PRESSURE (INS.)	DRY BULB (°F)	WET BULB (°F)	REL. HUMIDITY (%)	TOTAL SKY COVER	CLOUDS AND OBSCURING PHENOMENA: LOWEST LAYER AMT.	LOWEST LAYER TYPE & DIR.	LOWEST LAYER HEIGHT	SECOND LAYER AMT.	SECOND LAYER TYPE & DIR.	SECOND LAYER HEIGHT	SUMMA-TION AMT.	THIRD LAYER AMT.	THIRD LAYER TYPE & DIR.	THIRD LAYER HEIGHT	SUMMA-TION AMT.	FOURTH LAYER AMT.	FOURTH LAYER TYPE & DIR.	FOURTH LAYER HEIGHT	TOTAL OPAQUE SKY COVER	PRECIP.	NET PRESS. CHANGE	WIND (MPH)	
00	28.610	23	22	69	3	3	Sc	20	0			3	0			3	0			3				
01	28.610	11	09	79	2	2	Sc	20	0			2	0			2	0			2				
02	28.670	04	01	76	5	5	Sc	17	0			5	0			5	0			5				
03	28.680	03	00	76	4	4	Sc	17	0			4	0			4	0			4		.010		
04	28.670	05	01	74	6	6	Sc	M17	0			6	0			6	0			6				
05	28.670	02	00	77	3	3	Sc	17	0			3	0			3	0			3				
06	28.680	03	01	77	2	2	Sc	17	0			2	0			2	0			2		.020		
07	28.690	10	03	66	6	6	Sc	M17	0			6	0			6	0			6				
08	28.720	14	10	65	7	7	Sc	M17	0			7	0			7	0			7				
09	28.720	30	27	78	4	4	Sc	17	3	Sc	1	4	0			3	0			3		.060		
10	28.720	33	31	90	10	9	Sc	17	10	Cs	1	10	0				0			10				
11	28.715	41	40	96	3	3	Sc	20	3	Cs	1	3	0			3	0			1				
12	28.722	40	38	85	9	9	Sc	M17	0			6	0			2	0			9	R	.010		
13	28.700	03	03	96	10	10	Sc	5.7	0				0				0			10				
14	28.700	02	01	96	8	8	Sc	M30	0			8	0			8	0			8				
15	28.700	10	09	93	7	7	Sc	1035	0			7	0			7	0			7	R	.020		
16	28.710	05	05	92	7	4	Sc	35	3	Ac	E20	7	0			7	0			6				
17	28.710	09	08	85	8	2	Cu	35	6	Ac	E20	8	0			8	0			5				
18	28.700	07	04	75	4	4	Ac	120	0			4	0			4	0			1	0	.020		
19	28.710	06	04	77	5	5	Sc	35	0			5	0			6	0			3				
20	28.700	03	00	81	6	6	Sc	M30	0			6	0			6	0			4				
21	28.690	01	00	81	6	6	Sc	M30	0			6	0			6	0			4	R	.010		
22	28.690	10	07	81	8	8	Sc	M30	0			8	0			8	0			6				
23	28.690	10	08	93	10	10	Sc	M30	0			7	0				0			10				

SYNOPTIC OBSERVATIONS

TIME (E.S.T.)	PRES. TEND.	WIND DIR.	WIND VEL.	VISIBILITY	PRES. WEATH.	WIND TEMP.	DEW PT. TEMP.	STATE OF THE SURFACE	HEIGHT OF WAVES	SEA STATE	SWELL DIR.	SWELL PERIOD	SURF HEIGHT	WATER TEMP.	SOIL TEMP.	RAIN GAGE	
		X	T	T	X	5	3	X	X	X	X	X	X	X	X	0	
		T	M	3	11	3		9								21	
04		T	T	3	3	0		9								01	
10		T	T	3	9	6		9								3/0	
16		T	T	3	12	7		9								0	
		X	T	T	3	7	7	X	X	X	X	X	X	X	X	0	

STATION PRESSURE CORRELATIONS

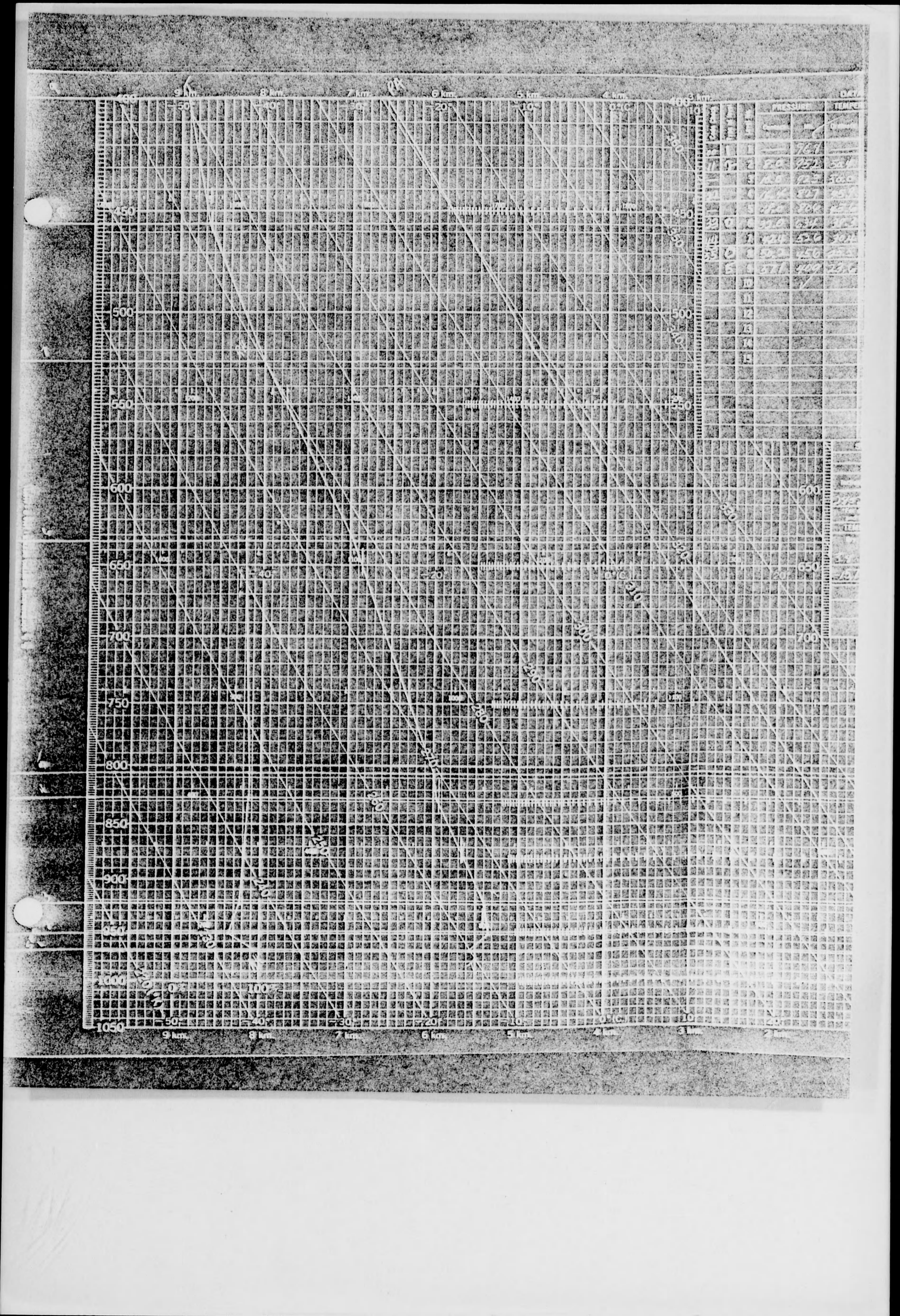
TIME (E.S.T.)	04	10	16	1855
ATT. THERM. (°F)				
CORRECTION (INS.)				
TOTAL CORR. (")				
STA. PRESS.	28.70	28.70	28.70	28.700
SEA LEVEL PRESS.	28.70	28.70	28.70	28.700
PRES. CHANGE (")	0	trace	0	0

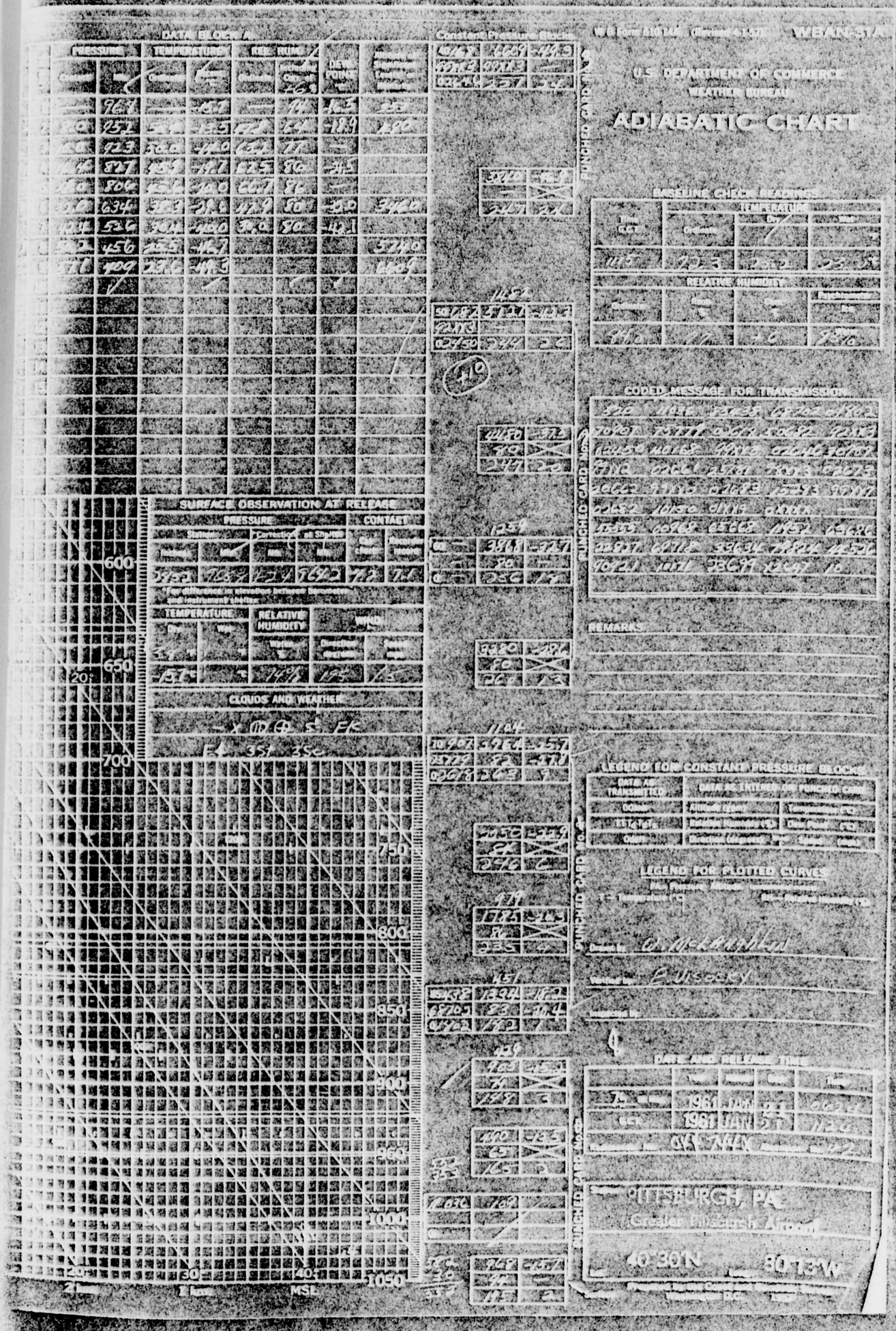
SUMMARY OF DAY (MIDNIGHT TO MIDNIGHT)

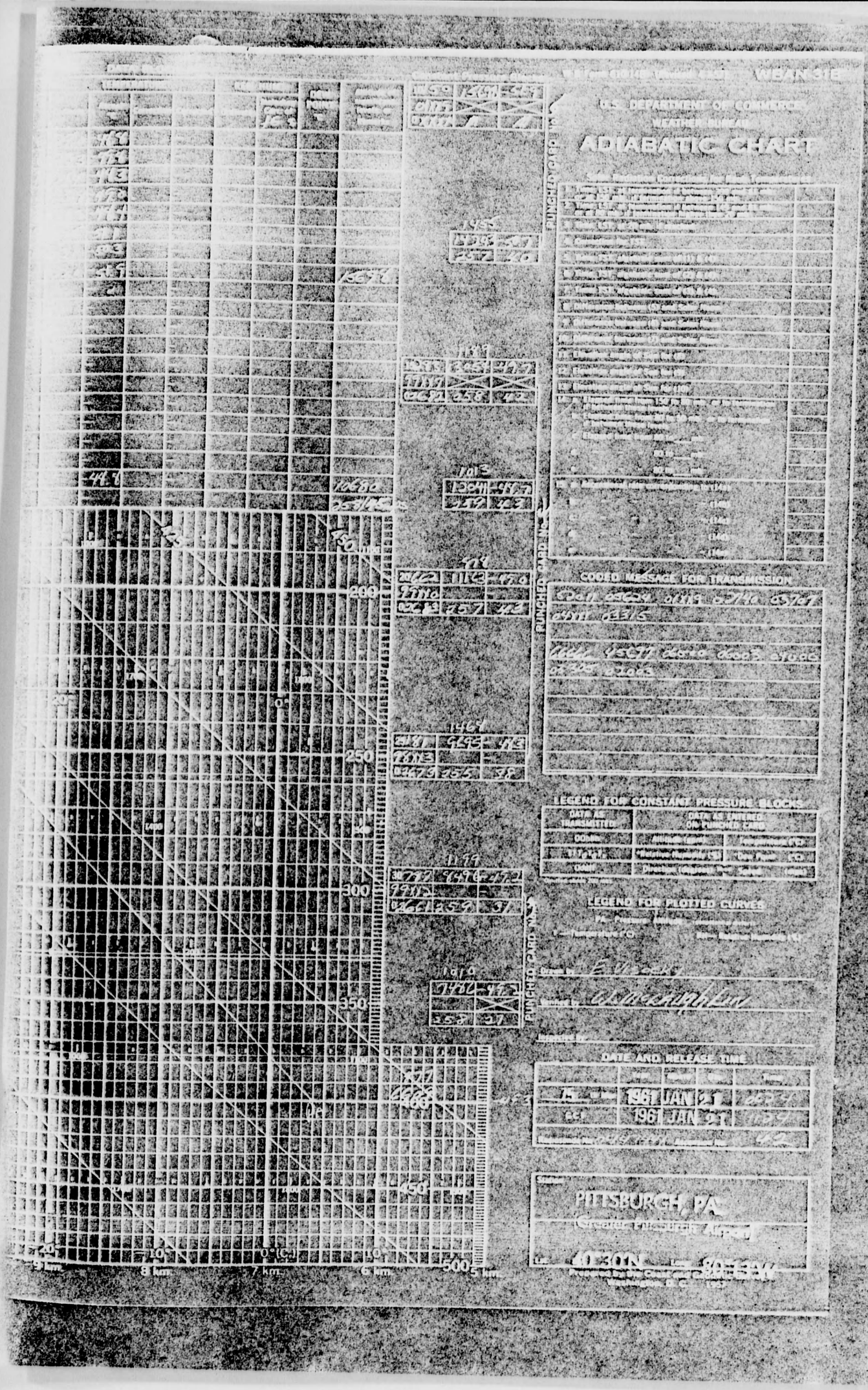
HEAVIEST PRECIPITATION (")	MEAN (°F)	HIGHEST (°F)	DUR. OF (Hrs.)	HIGHEST 10 MIN. (")	MEAN (MPH)	HIGHEST (MPH)	DUR. OF (Hrs.)
Rain	1000	0865		85	14.4	1315	
Snow	1015	1231					

MONTHLY REPORT

MO. XXXX




U.S. DEPARTMENT OF COMMERCE
WEATHER BUREAU
ADIABATIC CHART
SURFACE OBSERVATION AT RELEASE
PRESSURE
CONTACT
TEMPERATURE
RELATIVE HUMIDITY
CLOUDS AND WEATHER
BASELINE CHECK READINGS
RELATIVE HUMIDITY
CODED MESSAGE FOR TRANSMISSION
REMARKS
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
PITTSBURGH, PA
Greater Pittsburgh Airport
40°30'N
80°13'W
600
650
700
750
800
850
900
950
1000
1050
MSL


WEAN-3
U.S. DEPARTMENT OF COMMERCE
ADIABATIC CHART
CODED MESSAGE FOR TRANSMISSION
LEGEND FOR CONSTANT PRESSURE BLOCKS
LEGEND FOR PLOTTED CURVES
DATE AND RELEASE TIME
1961 JAN 21
1961 JAN 21
PITTSBURGH, PA.
(Greater Pittsburgh Airport)
40-30N
80-13W
200
250
300
350
450
500
8 km
7 km
6 km
5 km