

1. DATE - TIME GROUP 4 Feb 53 4/2050Z	2. LOCATION Yuma City, Ariz.
3. SOURCE Weather Bureau Pers.	10. CONCLUSION UNIDENTIFIED
4. NUMBER OF OBJECTS Two	Unidentified
5. LENGTH OF OBSERVATION 5 Min.	11. BRIEF SUMMARY AND ANALYSIS A civilian weather observer while using a theodolite to find his lost balloon sighted two solid white oblong objs. Source states that objs moved too fast to be balloons. There were jet a/c in the vicinity.
6. TYPE OF OBSERVATION Ground-Visual (Theodolite)	
7. COURSE	
8. PHOTOS ☐ Yes ☒ No	
9. PHYSICAL EVIDENCE ☐ Yes ☒ No	

FORM
FTD SEP 63 0-329 (TDE) Previous editions of this form may be used.

SR 10

Yuma City, Arizona

4 February 1953

I. Description of Incident

At 1350 MST a meteorological aid for the U.S. Weather Bureau was searching for a lost weather balloon with the aid of a theodolite when he sighted a solid white, oblong object at a direction of 157.2° and elevation of 53.3° . The size of the object consisted of one minute of arc.

The object appeared to be ascending straight up, then levelled off and at this point was joined by a second object of exactly the same description. The second object left the field of the theodolite twice but returned each time to join the original. They both disappeared simultaneously at an angle of 204.1° at an elevation of 29.1° . At 204.1° the sky was covered by cirrus clouds at approximately 25,000 ft.

The objects remained in vision for five minutes. The observer stated that the objects rose more rapidly than any balloon he has ever seen and furthermore moved against the prevailing westerly winds. There appeared to be no glimmer or reflection from the sun from the objects.

II. Discussion of Incident

From the observers obvious experience in tracking balloons, it is concluded that these objects could not have been balloons especially since they were seen to move against the wind. There were aircraft in the area but the observer states he was aware of them and could not have confused them with the unknown objects. Because of the maneuvers and the time of day, astronomical activity must be ruled out. ATIC has not been able to find an answer to this sighting.

III. Conclusion

Unknown.

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

DOWNGRADED AT
DECLASSIFIED AT
DOD DIR 5200.10

T53-3695

58

UNCLASSIFIED

PROJECT 10073 RECORD CARD

1. DATE 4 Feb 53	2. LOCATION Yuma City, Ariz.	12. CONCLUSIONS ☐ Was Balloon ☐ Probably Balloon ☐ Possibly Balloon ☐ Was Aircraft ☐ Probably Aircraft ☐ Possibly Aircraft ☐ Was Astronomical ☐ Probably Astronomical ☐ Possibly Astronomical ☐ Other ☐ Insufficient Data for Evaluation ☒ Unknown
3. DATE-TIME GROUP Local 4/1350 MST GMT 4/2050Z	4. TYPE OF OBSERVATION (Theodolite) ☒ Ground-Visual ☐ Ground-Radar ☐ Air-Visual ☐ Air-Intercept Radar	
5. PHOTOS ☐ Yes ☒ No	6. SOURCE Weather Bureau Person	
7. LENGTH OF OBSERVATION 5 min.	8. NUMBER OF OBJECTS 2	9. COURSE
10. BRIEF SUMMARY OF SIGHTING A civilian weather observer while using a theodolite to find his lost balloon sighted two solid white oblong objects. Source states that objects moved too fast to be balloons. There were a/c in the vicinity.		11. COMMENTS

Y-24'S BEING DISAPPEARED AT 32-11 DEGREES' ELEVATION; SIGHTED AT 22-3

RF160

RR JEDWP /SUSDUPE/

WPD083

JWPOM 023

KD 028

PP JEPHQ JEDWP JEDEN JWPML 444

DE JWPOM 006H

P 042340Z ZNJ

FM CO 4750TH ABG YUMA CTY APRT ARIZ

TO JEPHQ/INTEL HQ USAF WASH 25 D C

JEDWP/AIR TECH INTEL CENTER WRIGHT-PATTERSON AFB OHIO

JEDEN/CG ADC ENT AFB COLO SPRINGS COLO

JWPML/CG WADF HAMILTON AFB CALIF

1750TH ABG DO 375. ATTN: ATIAA-2C.

FLYOB RPT.

UNCLASSIFIED

FEB 5 22 19

DISPATCHED

1. AT/AA
2. AT/1
~~3. AT/1~~
4. a/c

FEB 1953

ATIC

237

UNCLASSIFIED

COUNTRY USA	REPORT NO. 1-53	(LEAVE BLANK)
AIR INTELLIGENCE INFORMATION REPORT		
SUBJECT Unidentified flying objects		
AREA REPORTED ON Tucson, Arizona	FROM (Agency) 4750th AGC, Tucson County Airport, Ariz.	
DATE OF REPORT 6 February 1953	DATE OF INFORMATION 5 February 1953	EVALUATION Fairly reliable
PREPARED BY (Officer) Captain Gaylord G. Duren	SOURCE Personal interview	
REFERENCES (Control number, directive, previous report, etc., as applicable) AFM 200-5, 29 April 1952		

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

On 4 February 1953, [redacted] Tucson, Arizona, a meteorological aid for U. S. Weather Bureau was searching for a lost weather balloon with the aid of a theodolite. At 1350 HST he sighted a solid white, oblong object at a direction of 137.2° and elevation of 53.3°.

The object was a solid white, oblong in shape and appeared to be covered by a small thin, white mist. The size of the object was 1 minute of arc.

It appeared as ascending straight up then leveled out in a long sweep at an elevation of 53.3°. Some 20 seconds later this object was joined by a second object, exactly the same as the first in size, color and shape. Object No 2 appeared from the left below and crossed No 1 to a position above. It then crossed No 1 again to a position below. This was done several times. In doing so, No 2 left the field of theodolite twice but re-entered and remained behind and slightly below object No 1. The changes in direction of object No 2 were smooth sweeping turns. As the objects moved rapidly across the horizon, they remained the same relative size.

They both disappeared simultaneously at an angle of 204.1° at an elevation of 29.1°. At 204.1° the sky was covered by cirrus clouds at approximately 25000 ft.

The clouds obscured the objects and they were immediately lost from sight.

At the time of original sighting there was a clear sky background. The objects were lost momentarily when they passed near the sun. They reappeared on the edge of the sun.

The objects remained in vision for approximately 5 minutes.

Coordinates of the theodolite are lat. 32° 40 minutes N and long. 114° 36 minutes W.

[redacted] was looking for his lost weather balloon with the aid of the theodolite at a 6000 foot level when the objects were first sighted. He did not find his balloon. He was standing at an elevation of 197 feet on the south side of the Tucson County Airport terminal building. Mr. Brown stated that the objects moved much more rapidly than any balloon he has ever sighted in his 17 years experience as meteorological aid. The objects moved against the winds aloft which were from the west. Surface wind was from the north at 5 E.

[redacted] feels strongly that he actually saw a solid object other than any known aircraft. There was no glimmer or reflection from the sun. There are no other witnesses.

[redacted] called the 4750th Air Base Group at Tucson County Airport and then reported it to Security Control at Los Angeles Air Traffic Control.

[redacted] was aware that there were aircraft in the area but they were not in the immediate area of vision.

INCL.

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

DISTRIBUTION BY ORIGINATOR

Director of Intelligence, Headquarters USAF, Washington 25, D. C. (6 cpy)
Chief Air Technical Intelligence Center, AFM: AFM-20, Wright-Patterson AFB, Ohio (1 cpy)

AND ABOVE OBJ NO 1 SEVERAL TIMES. THEY TVL IN FORMATION, OBJ NO 2 LOW AND BEHIND. SMALL SOLID WHITE OBJ APPEARED TO BE COVERED WITH A THIN WHITE MIST AROUND EDGES.

(2) TIME OF SIGHTING 13:50 MST REMAINING IN VISION UNTIL 13:55 MST.

(3) OBJS SIGHTED THROUGH THEODOLITE CAA WEA STA.

(4) OBSR S SIDE OF TERMINAL BLDG, YUMA COUNTY APRT. ELEVATION 199 FT, LAT 32 DEGREES 40 MIN N, LONG 114 DEGREES 36 MIN W. OBJ SIGHTED AT

PAGE TWO JWPOM 006H

157.2 DEGREES DISAPPEARED AT 204.1 DEGREES. ELEVATION: SIGHTED AT 53.3 DEGREES DISAPPEARED AT 29.1 DEGREES.

(5) NO WITNESS - ~~XXXXXXXXXX~~ (OBSR) IS MET AID 10 YEARS EXPERIENCE PVT PLT.

(6) WEA - CLEAR SKY - CIRRUS CLOUDS AT APPROX 25000 FT IN DIR OBJ LOST. SW.

(7) NONE

(8) NONE

(9) CALLED 4750TH ABG (WPNS TNG) THEN REPT TO SCTY CON, LOS ANGELES AIR TRAFFIC CON.

(10) JET ACFT IN VICINITY, OBSR WAS AWARE OF THEM.

05/0045Z FEB* JWPOM

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

UNCLASSIFIED

COORDINATION

INSERT
ORGNL CODE AND
FULL SIGNATURE

RMO/jos/65365

17 FEB 1953

In reply refer to
AFOIN-ATIAE-5

SUBJECT: Unidentified Flying Object Sighting

TO: Commanding Officer
Yuma County Municipal Airport
ATTN: 4750th Air Base Gp
Yuma, Arizona

1. In reference to an Unidentified Flying Object sighting by [REDACTED] at 1350MST, the Air Technical Intelligence Center requests that you ask Mr. Brown to complete the enclosed United States Air Force Technical Information Sheet and forward it to this Center.

2. Please advise [REDACTED] that such information is greatly appreciated by the Air Technical Intelligence Center in its analysis of sightings such as his. Your cooperation in this matter is appreciated.

FOR THE COMMANDING GENERAL

1 Incl
a/s

ROBERT C. BROWN
Major, USAF
Air Adj. Gen.

unc MC

DESIGNATE AUTHD OFFICE OF RECORD

OFFICIAL FILE COPY

1 Witness

HEADQUARTERS
4750TH AIR BASE GROUP, WEAPONS TRAINING
YUMA COUNTY AIRPORT
Yuma, Arizona

*04/1350
YUMA CITY, ARIZONA*

23

27 February 1953

SUBJECT: USAF Technical Information Sheet

TO: Commanding General
Wright Patterson Air Force Base
Ohio

ATTN: Air Technical Intelligence Center

In reference to your letter of 17 February 1953, AFOIN-ATIAE-5, we have inclosed herewith the completed USAF Technical Information Sheet as requested.

FOR THE COMMANDING OFFICER:

1 Incl.
USAF Tech Info Sheet

William A Ham
WILLIAM A. HAM
Captain, USAF
Adjutant

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?

4 FEB. 1953
Day Month Year

2. Time of day:

(1350) 1 50 M.S.T.
Hour Minutes

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

3. Time zone:

(Circle One): a. Eastern

b. Central

c. Mountain

d. Pacific

e. Other _____

(Circle One): a. Daylight Saving

b. Standard

4. Where were you when you saw the object?

403 22ND AVE. YUMA ARIZONA
Nearest Postal Address City or Town State or Country

Additional remarks: SIGHTED OBJECTS AT YUMA COUNTY AIRPORT

5. Estimate how long you saw the object.

— 5 —
Hours Minutes Seconds

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

a. Certain

b. Fairly certain

c. Not very sure

d. Just a guess

6. What was the condition of the sky?

(Circle One): a. Bright daylight

b. Dull daylight

c. Bright twilight

d. Just a trace of daylight

e. No trace of daylight

f. Don't remember

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

(Circle One): a. In front of you

b. In back of you

c. To your right

d. To your left

e. Overhead

f. Don't remember

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

8.1 STARS (Circle One):

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

8.2 MOON (Circle One):

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

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

(Circle One):

a. Yes

b. No

c. Don't remember

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

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

b. Several blocks away?

c. A block away?

d. Several yards away?

e. Other OBJECTS WERE DULL WHITE

11. Did the object:

(Circle One for each question)

- | | | | |
|---|-----|-----------|------------|
| a. Appear to stand still at any time? | Yes | <u>No</u> | Don't Know |
| b. Suddenly speed up and rush away at any time? | Yes | <u>No</u> | Don't Know |
| c. Break up into parts or explode? | Yes | <u>No</u> | Don't Know |
| d. Give off smoke? | Yes | <u>No</u> | Don't Know |
| e. Change brightness? | Yes | <u>No</u> | Don't Know |
| f. Change shape? | Yes | <u>No</u> | Don't Know |
| g. Flicker, throb, or pulsate? | Yes | <u>No</u> | 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: LOWER EDGE OF SUN, THEN AS IT TRAVELED WEST WENT INTO CIRRUS CLOUD

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

(Circle One): Yes No Don't Know. IF you answered YES, then tell what it moved in front of: OBJECTS POSSIBLE MOVED IN FRONT OR BEHIND CIRRUS CLOUD, I COULDN'T TELL WHICH

14. Did the object appear: (Circle One): a. Solid? b. Transparent? c. Don't Know.

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

- | | | | | | |
|-----------------|-----|----|---------------|------------|----|
| a. Eyeglasses | Yes | No | e. Binoculars | Yes | No |
| b. Sun glasses | Yes | No | f. Telescope | Yes | No |
| c. Windshield | Yes | No | g. Theodolite | <u>Yes</u> | No |
| d. Window glass | Yes | No | h. Other | | |

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

a. Sound NO SOUND

b. Color SOLID DULL WHITE COLOR, NO REFLECTION.

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.

I SAW TWO OBJECTS THE SAME SIZE, ALMOST ROUND, A SOLID DULL PURE WHITE COLOR, A THIN WHITE MIST EDGED EACH OBJECT.



18. The edges of the object were:

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

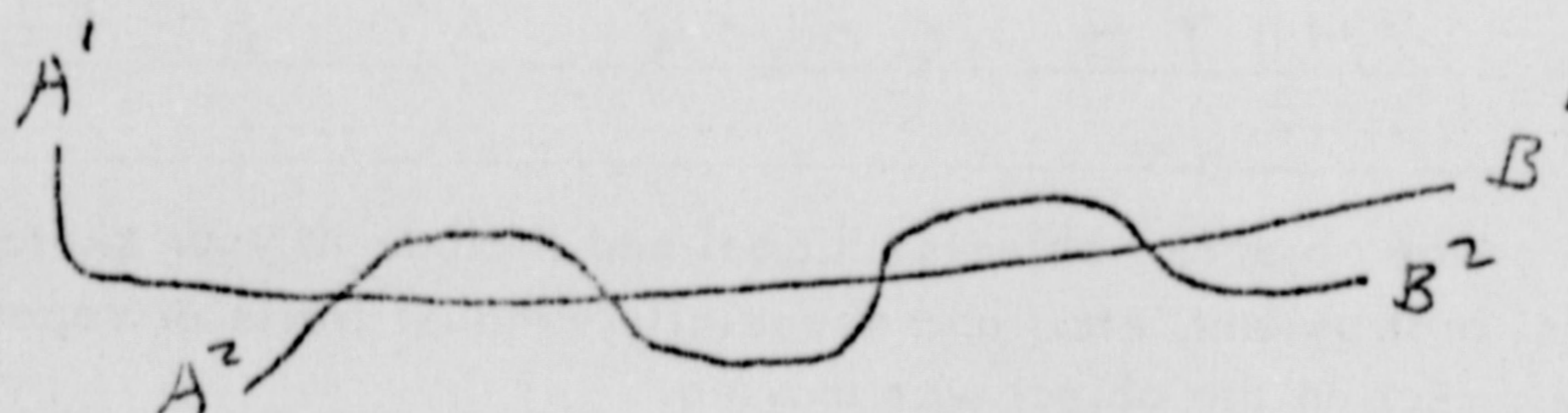
e. Other _____

19. IF there was MORE THAN ONE object, then how many were there? 2

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

ONE OBJECT FOLLOWED A WESTWARD COURSE FAIRLY STRAIGHT AS THE SECOND OBJECT SWOOPED ACROSS OR NEAR IT'S PATH 3 TO 4 TIMES.

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.



A' FIRST OBJECT
A'' SECOND OBJECT

21. IF POSSIBLE, try to guess or estimate what the real size of the object was in its longest dimension.
_____ feet. ONE MINUTE OF ARC IN SIZE OF THEODOLITE FIELD.

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. Penny
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? OBSCURED BY CIRRUS CLOUD.

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.

THE OBJECT COULD HAVE BEEN ANY METAL OR PLASTIC
PAINTED WHITE. NOT KNOWING THE DISTANCE AWAY THE
OBJECT COULD HAVE BEEN HUGE OR POSSIBLY A FEW
FEET IN DIAMETER. IT LOOKED LIKE A BILLIARD
BALL, WHITE AND SLIGHTLY OBLONG WITH A THIN
WHITE MIST EDGING IT.

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?

I WAS FOLLOWING A BALLOON WITH A THEODOLITE,
LOOKED AWAY A FEW SECONDS, THE BALLOON WAS NO LONGER
IN THEODOLITE FIELD, AND IN MOVING SCOPE OF THEODOLITE
A LITTLE SIGHTED OBJECT.

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 South East
- 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) 157° FROM MY POSITION
AT 53° ELEVATION.

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

30. What direction were you looking when you last saw the object? (Circle One) EXACTLY → 204.1°
FROM MY POSITION, 29.1° ELEVATION.

- a. North
- b. Northeast
- c. East
- d. Southeast
- e. South South West
- 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:

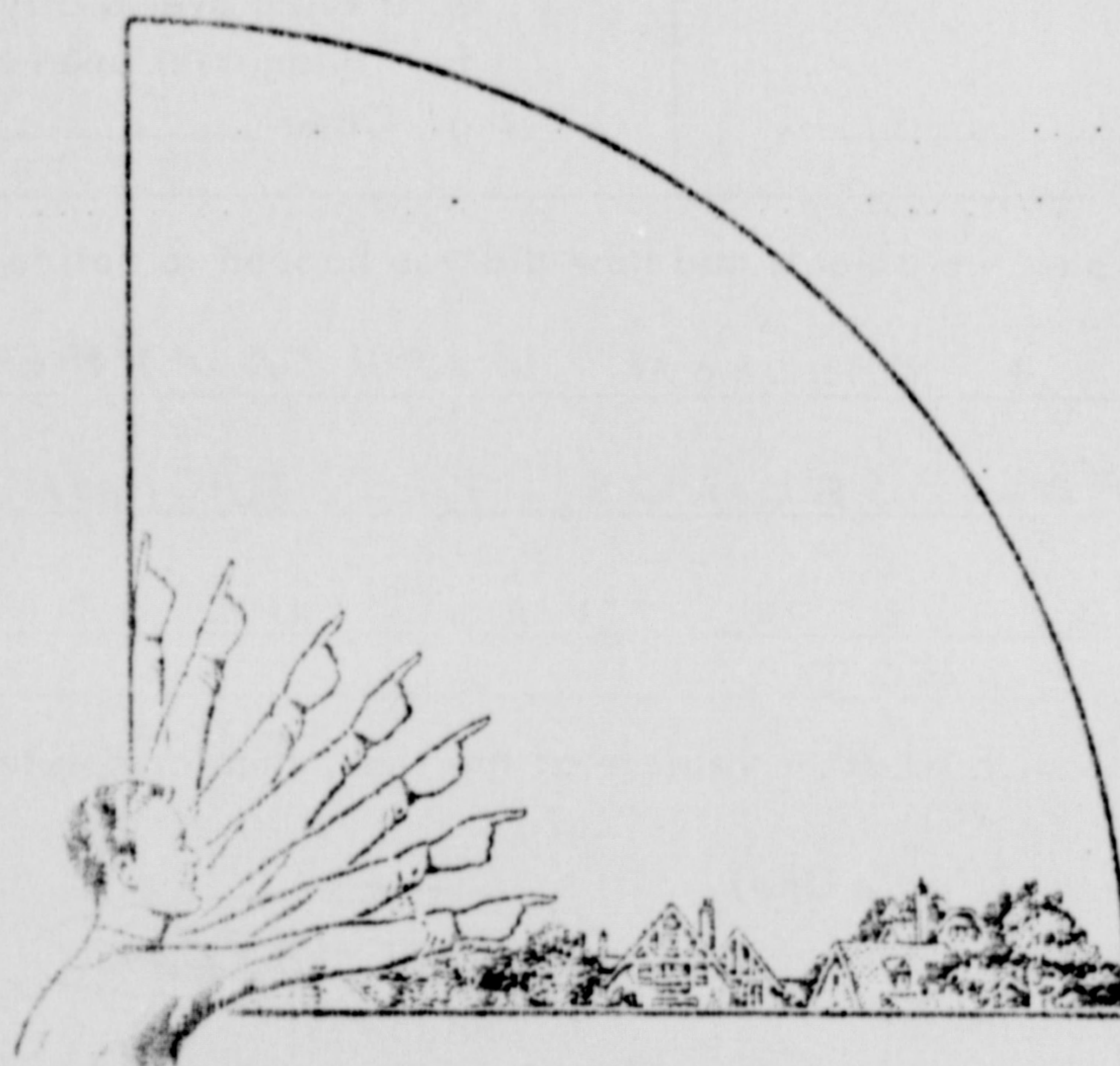
- a. From true North 157° AZIMUTH, 53° ELEVATION degrees.
- b. From horizon _____ degrees.

31.2 When it disappeared:

- a. From true North 204.1° AZIMUTH, 29.1° ELEVATION degrees.
- b. From horizon _____ degrees.

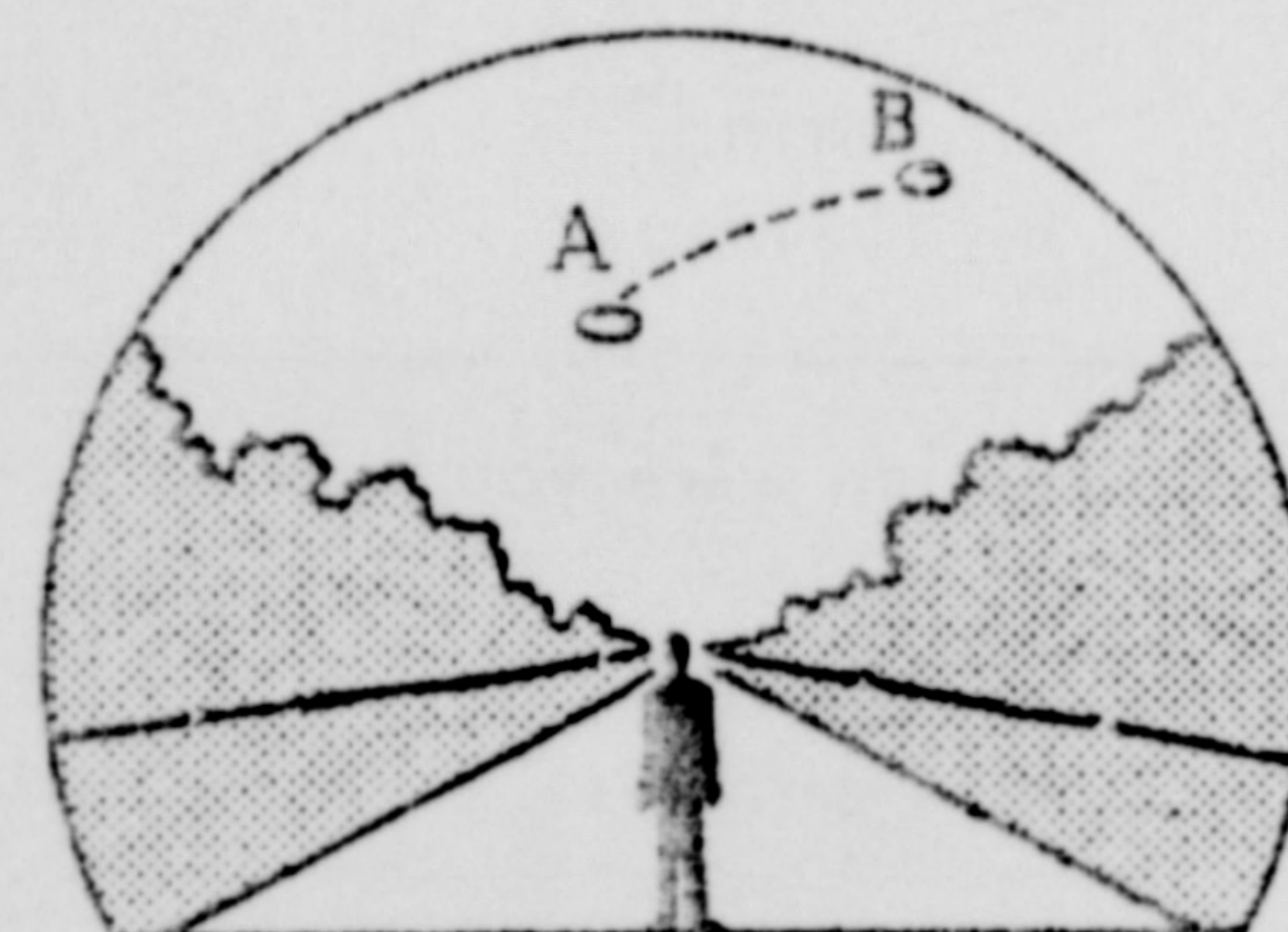
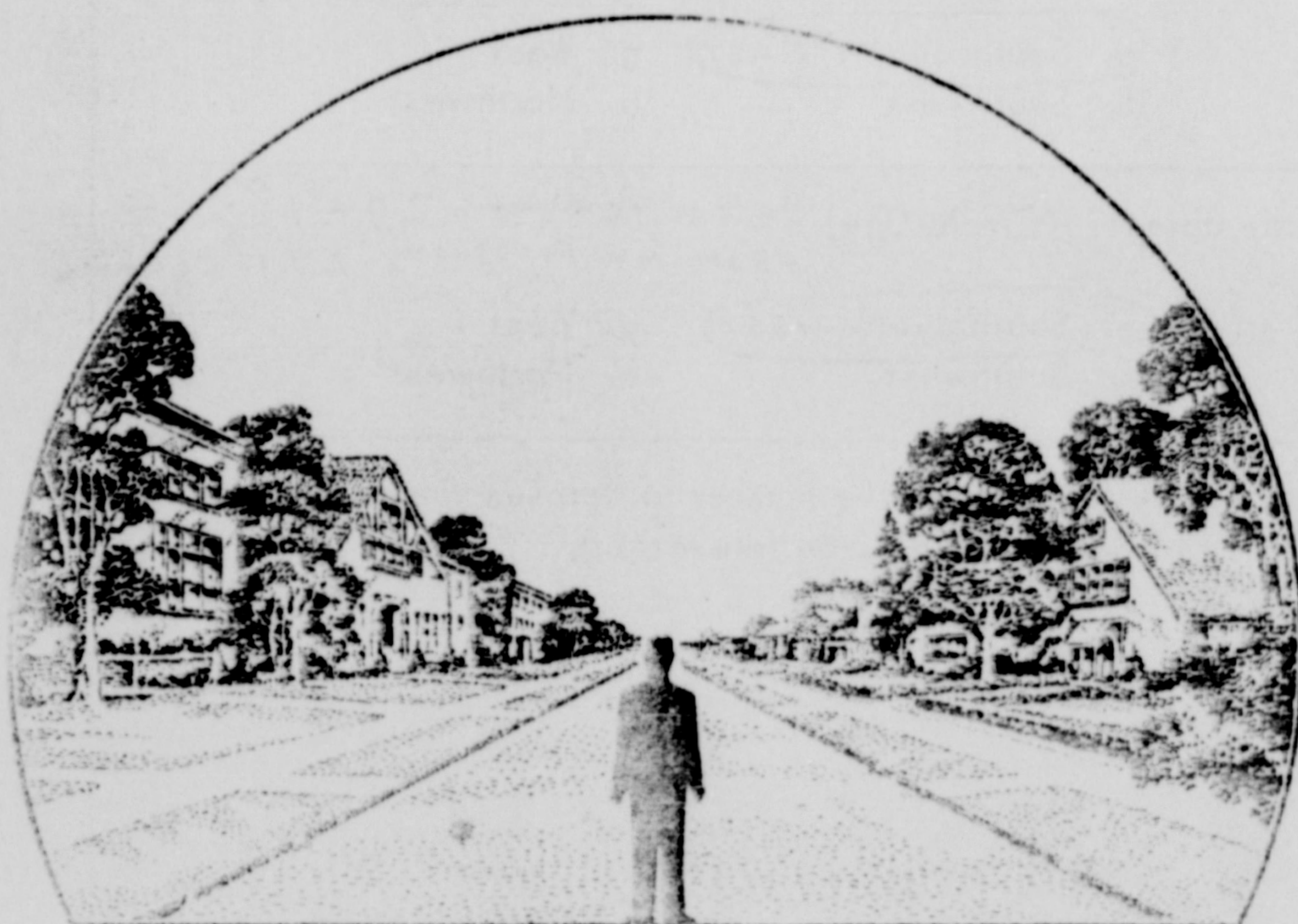
32. In the following sketch, imagine that you are at the point shown. Place an "A" on the curved line to show how high the object was above the horizon (skyline) when you *first* saw it. Place a "B" on the *same* curved line to show how high the object was above the horizon (skyline) when you *last*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

EXACT POSITIONS PAGE 5



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.

EXACT POSITIONS PAGE 5



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

34.1 CLOUDS (Circle One)

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

34.2 WIND (Circle One)

- a. No wind
- b. Slight breeze
- c. Strong wind
- 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?

4

Day

FEB

Month

1953

Year

SHORTLY AFTER SIGHTING OBJECTS

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:

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?

I AM CERTAIN OF WHAT I SAW. THE OBJECTS WERE EITHER
PILOTED OR REMOTE CONTROLLED.

39. Do you think you can estimate the speed of the object? (ENTIRE SIGHTING IN THEODOLITE)

(Circle One) Yes

(No) NOT KNOWING THE DISTANCE AWAY.
HOWEVER THEY MOVED VERY FAST THROUGH THE SKY
IF you answered YES, then what speed would you estimate? _____ m.p.h.
MUCH FASTER THAN ANY BALLOON I HAVE FOLLOWED.

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

(Circle One) Yes

(No) THEY SEEMED HIGH IN THE SKY.

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

41. Please give the following information about yourself:

NAME

Last Name

First Name

Middle Name

ADDRESS

Street

City

Zone

State

TELEPHONE NUMBER

What is your present job? METEOROLOGICAL AID, U.S. WEATHER BUREAU

Age 27 Sex MALE

Please indicate any special educational training that you have had.

a. Grade school GRADUATE

e. e. Technical school _____

b. High school GRADUATE

(Type) _____

c. College 1 YEAR

f. Other special training PRIVATE PILOT

d. Post graduate NONE

LICENSE

42. Date you completed this questionnaire:

25

Day

FEB.

Month

1953

Year

February 6, 1953

[REDACTED]
Yuma, County Airport
Yuma, Arizona

"Sighting of flying objects"

The location Yuma County Airport, February 4, 1953, time 1350 M.S.T. I was using a theodolite to follow a pilot balloon, which was at 6,000 feet Mean Sea Level. I took my eyes away from the eye piece for a few seconds, returned my eye to the eye piece, and the balloon was out of the field. The readings were 53 degrees elevation, and direction from me 157 degrees, time 1350 M.S.T. I then saw one object going upward, and curving to the West. I had a clear sky background, and although it moved through the field rapidly was able to see it clearly, and follow the flight. About 20 seconds after sighting the first object a second object came into the field, and swooped upward and across the path of the first object. The first object flew toward the West, while the second object swooped across or near the path of the first object three to four times, going out of the field about two times for a moment. The two objects passed near the lower portion of the sun, and were traveling westward, the second object below and behind the first object, when a Cirrus cloud came into the theodolite field, I lost sight of the two objects. The exact position at that time, elevation angle 29.1 degrees and direction from the instrument 204.1 degrees. The time 1355 M.S.T., after having followed the two objects through the 32 power theodolite for a period of 5 minutes with a clear sky background.

The objects were both the same size, as nearly as I can figure one minute of arc in size. The objects were almost round, a solid, dull, pure white color, with a thin white mist completely edging each object.

I am a Meteorological Aid employed with the United States Weather Bureau, having followed balloons through a theodolite for the past ten years. I also hold a private pilots license, and having flown in military and civilian aircraft frequently in the past ten years.

I am absolutely certain of what I have seen through the theodolite as described in the foregoing paragraphs.

Signed [REDACTED]
[REDACTED]

Yuma County Airport
Yuma, Arizona

STATION **BUENA VISTA, ARIZONA**
 (Land Station)

LAT **33° 40' N** LONG **114° 36' W**

WIND FORM 1116a

UNITED STATES DEPARTMENT OF COMMERCE
 WEATHER BUREAU
WINDS ALOFT CO
 (LAND STATION)
 WBA

Altitude in Feet **5000**

Time of Day **11:00 AM**

Minutes	Altitude in Feet	Altitude in Meters	Direction in Degrees	Direction in Miles	Direction in Miles	Direction in Miles	Direction in Miles	Direction in Miles	Direction in Miles	Minutes
00										00
1	500	216		84.0	0.1	3.5		3.5	2.1	1
2	550	213		79.6	1.5	18.5		18.5	1.4	2
3	600	612		65.6	1.6	3.0		3.0	3.1	3
4	650	301		56.3	3.0	8.0		8.0	4.6	4
5	700	090		55.8	3.6	10.5		10.5	9.5	5
6	750	1,170		59.2	3.7	14.0		14.0	9.2	6
7	800	1,450								7
8	850	1,530								8
9	900	1,710								9
10	950	1,800								10
11	1,000	2,070		77.1	2.5	1.0	6.8	1.0		11
12	1,050	2,250								12
13	1,100	2,430								13
14	1,150	2,610								14
15	1,200	2,790								15
16	1,250	2,970								16
17	1,300	3,150								17
18	1,350	3,330								18
19	1,400	3,510								19
20	1,450	3,690								20
21	1,500	3,870								21
22	1,550	4,050								22
23	1,600	4,230								23
24	1,650	4,410								24
25	1,700	4,590								25
26	1,750	4,770								26
27	1,800	4,950								27
28	1,850	5,130								28
29	1,900	5,310								29
30	1,950	5,490								30
31	2,000	5,670								31
32	2,050	5,850								32
33	2,100	6,030								33

DEPARTMENT OF COMMERCE
BUREAU OF Lighthouses and Lightships

COMPUTATION SHEET

FORM NO. 1

20

Release Date and Time				
Year	Month	Day	Hour	Minute
1943	FEB	4	13	43
1943	FEB	4	20	43

AL

Direction of observation point above sea level (feet)

Station	Altitude			Elevation angle	Azimuth angle	Distance from observation point (meters)	Sun (true) bearing (true)	Wind direction (true)	Wind speed (m.p.h.)	Remarks
	100 (feet)	50 (feet)	Other (feet)							
46	13,075	8,570								46
47	13,375	8,530								47
48	13,675	8,730								48
49	13,975	8,910								49
50	14,275	9,090								50
51	14,570	9,270								51
52	14,860	9,450								52
53	15,145	9,630								53
54	15,425	9,810								54
55	15,706	9,990								55
56	15,985	10,170								56
57	16,265	10,350								57
58	16,545	10,530								58
59	16,825	10,710								59
60	17,105	10,890								60
61	17,385	11,070								61
62	17,670	11,250								62
63	17,950	11,430								63
64	18,235	11,610								64
65	18,515	11,790								65
66	18,795	11,970								66
67	19,080	12,150								67
68	19,360	12,330								68
69	19,645	12,510								69
70	19,925	12,690								70
71	20,210	12,870								71
72	20,490	13,050								72
73	20,775	13,230								73
74	21,055	13,410								74
75	21,340	13,590								75
76	21,620	13,770								76
77	21,905	13,950								77

[illegible][illegible]

Contract _____

Pressure _____

Altitude (m) or _____

Time _____

105

110

115

120

125

130

135

140

145

RASON TIME AL

Obituary

Station **STATION**
STATION
STATION

WINDS AL

198

Agosto

UNITED STATES DEPARTMENT OF AGRICULTURE

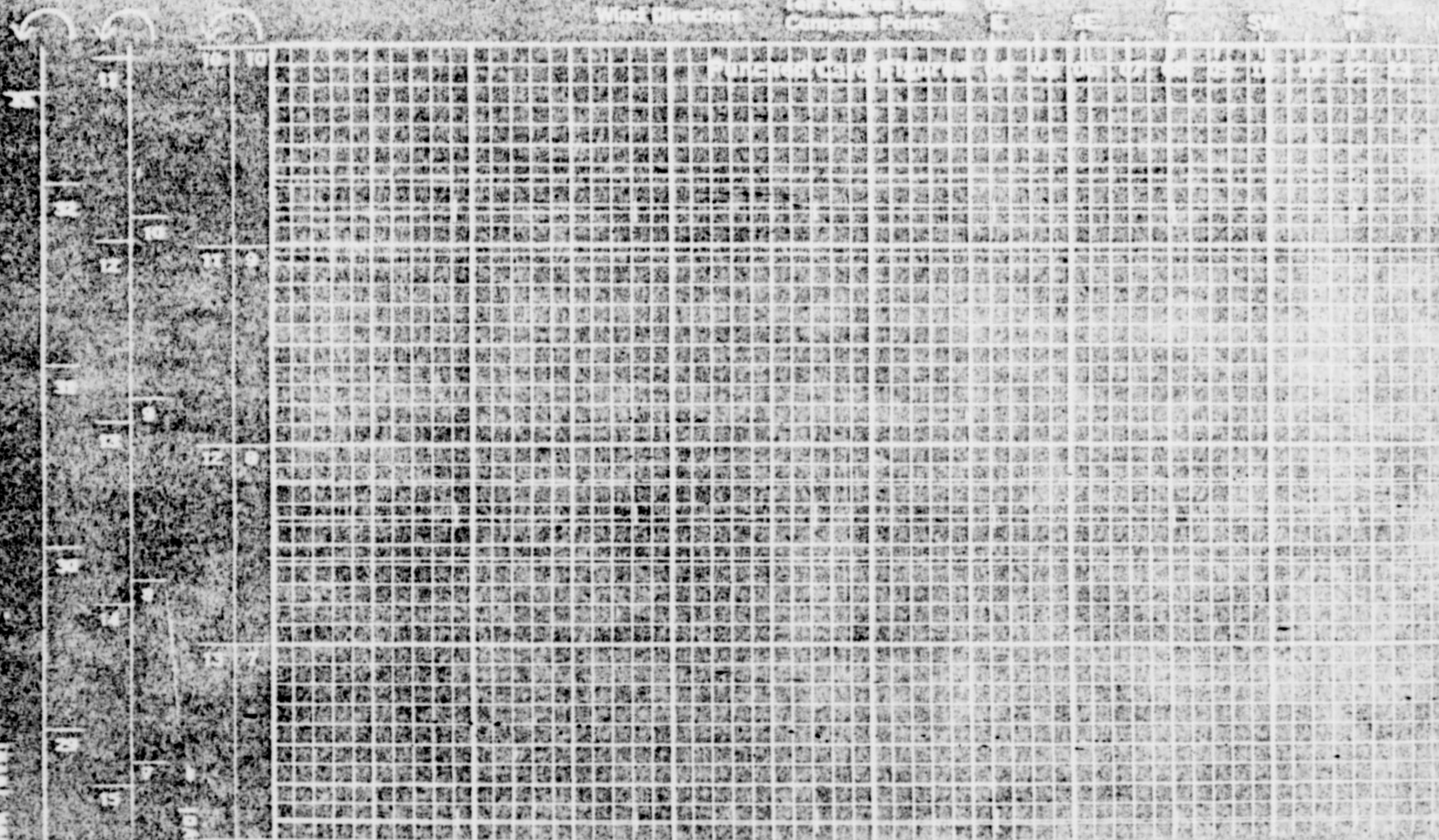
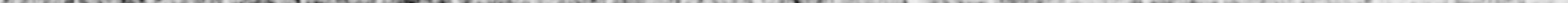
1990

SC 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22

101

7621111

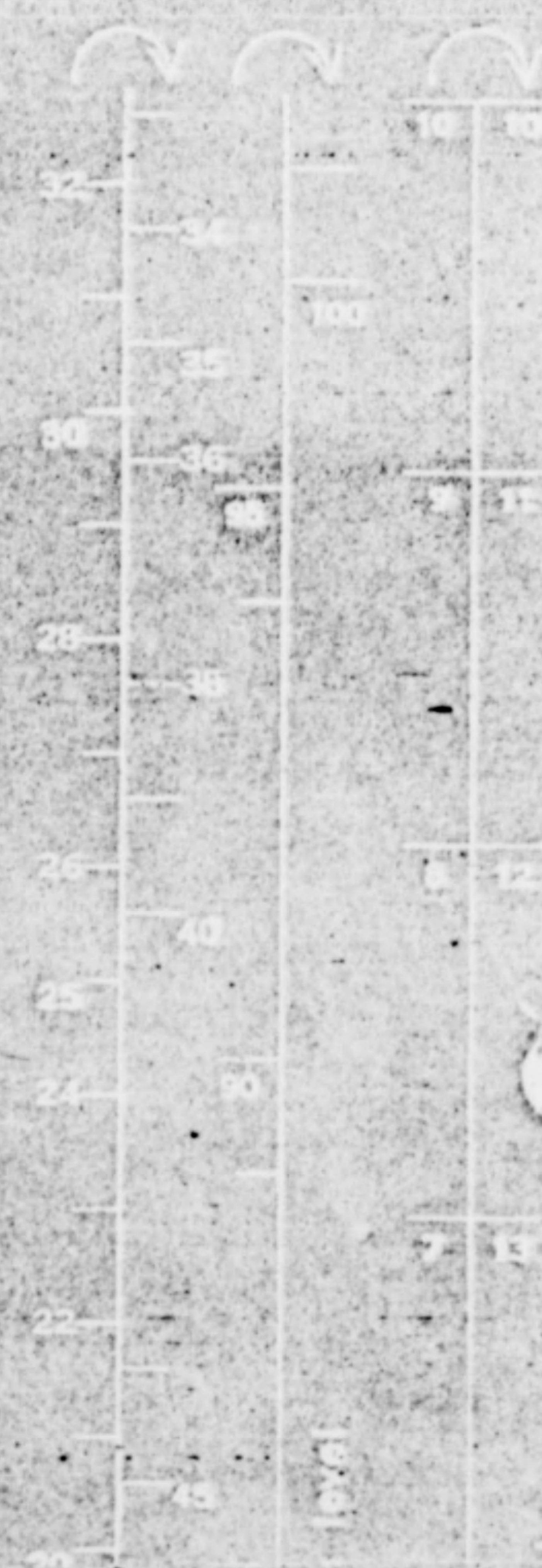
1997



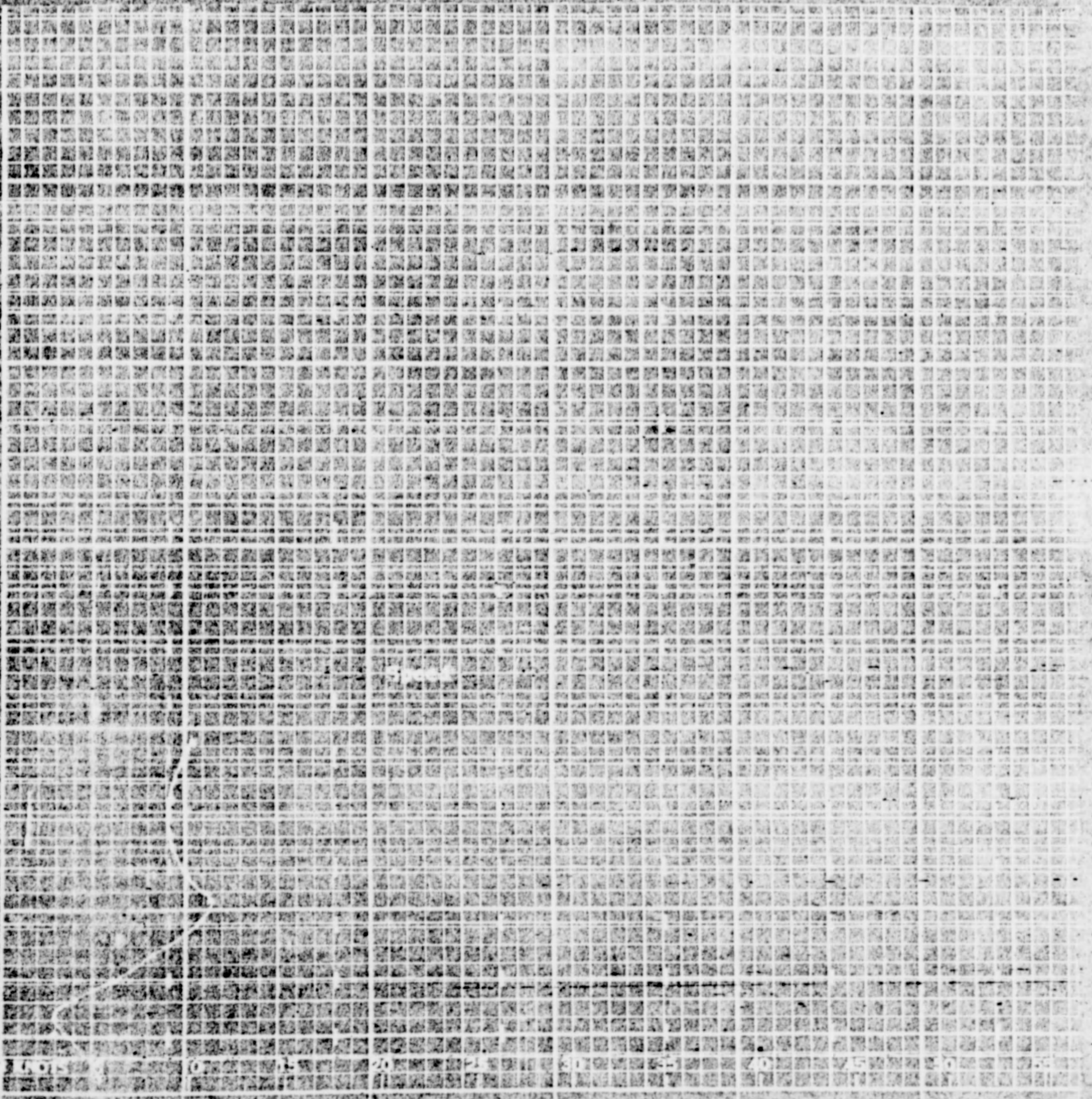
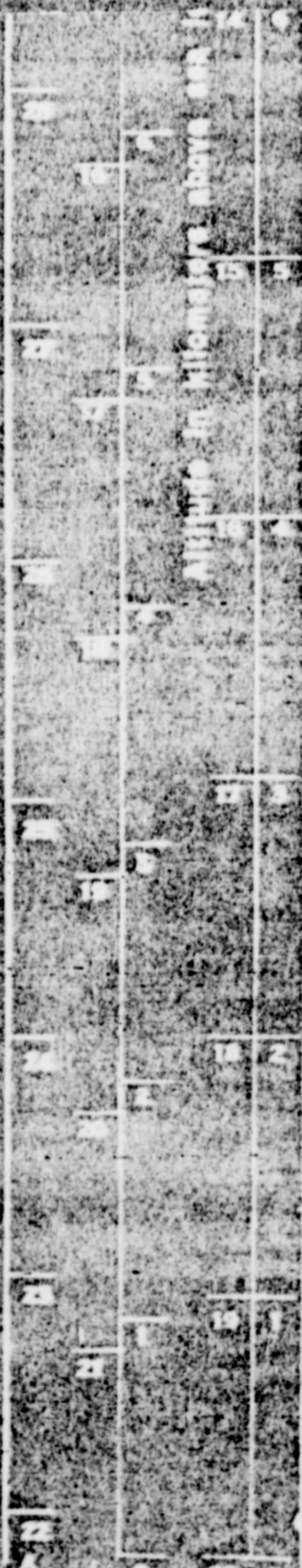
105

	Year	Month	Day	Time
1. M. A.	53	FEB	4	1243
G. C. T.	53	FEB	4	2043

TO PUNCHED CARDS



Vertical in the center of each oblate



0 MPS

Prepared by 4443

Verified by 4443

11-6111-1

