LOS ANGELES TO VENTURA

OVER-WATER OZONE TRANSPORT STUDY

VOLUME II

DATA SUPPLEMENT VOLUME

Prepared under Contract No. ARB 4-1126

For the

California Air Resources Board

Sacramento, California

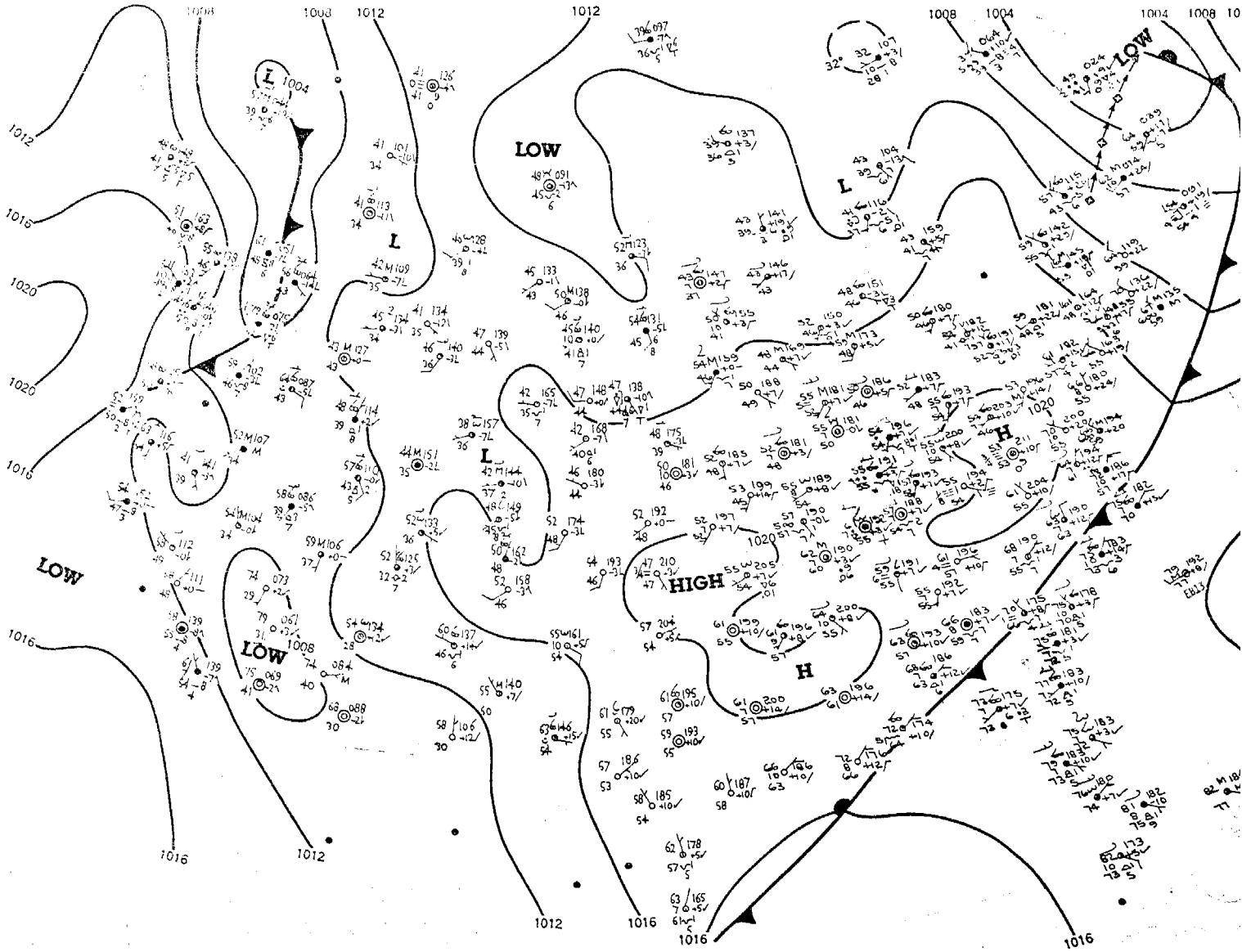
by

Metro Monitoring Services
274 E. Rowland Street
Covina, California 91723

August 1975

A P P E N D I X B

SURFACE AND UPPER AIR
WEATHER MAPS,
U. S. DEPARTMENT OF COMMERCE
(NOAA)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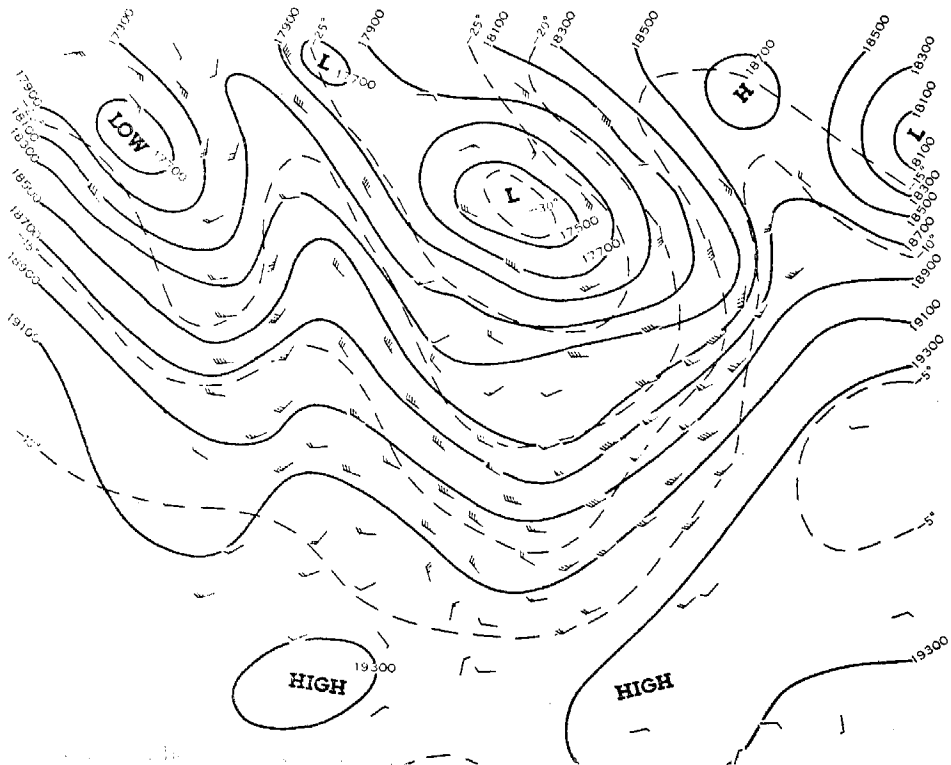
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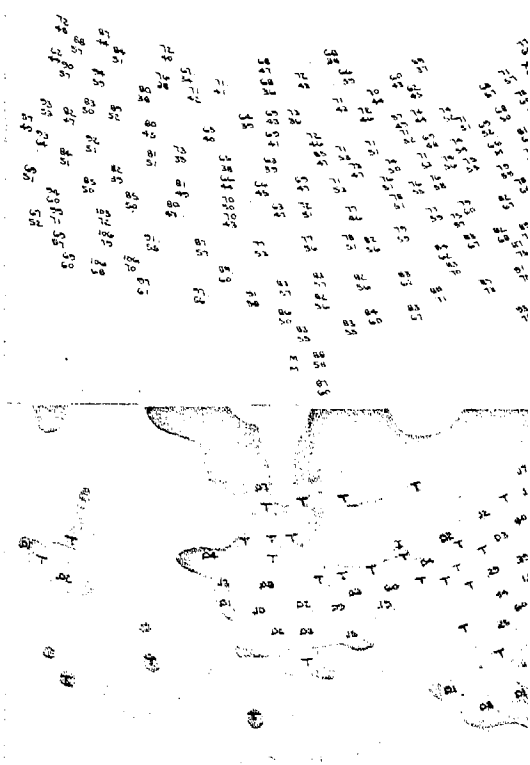

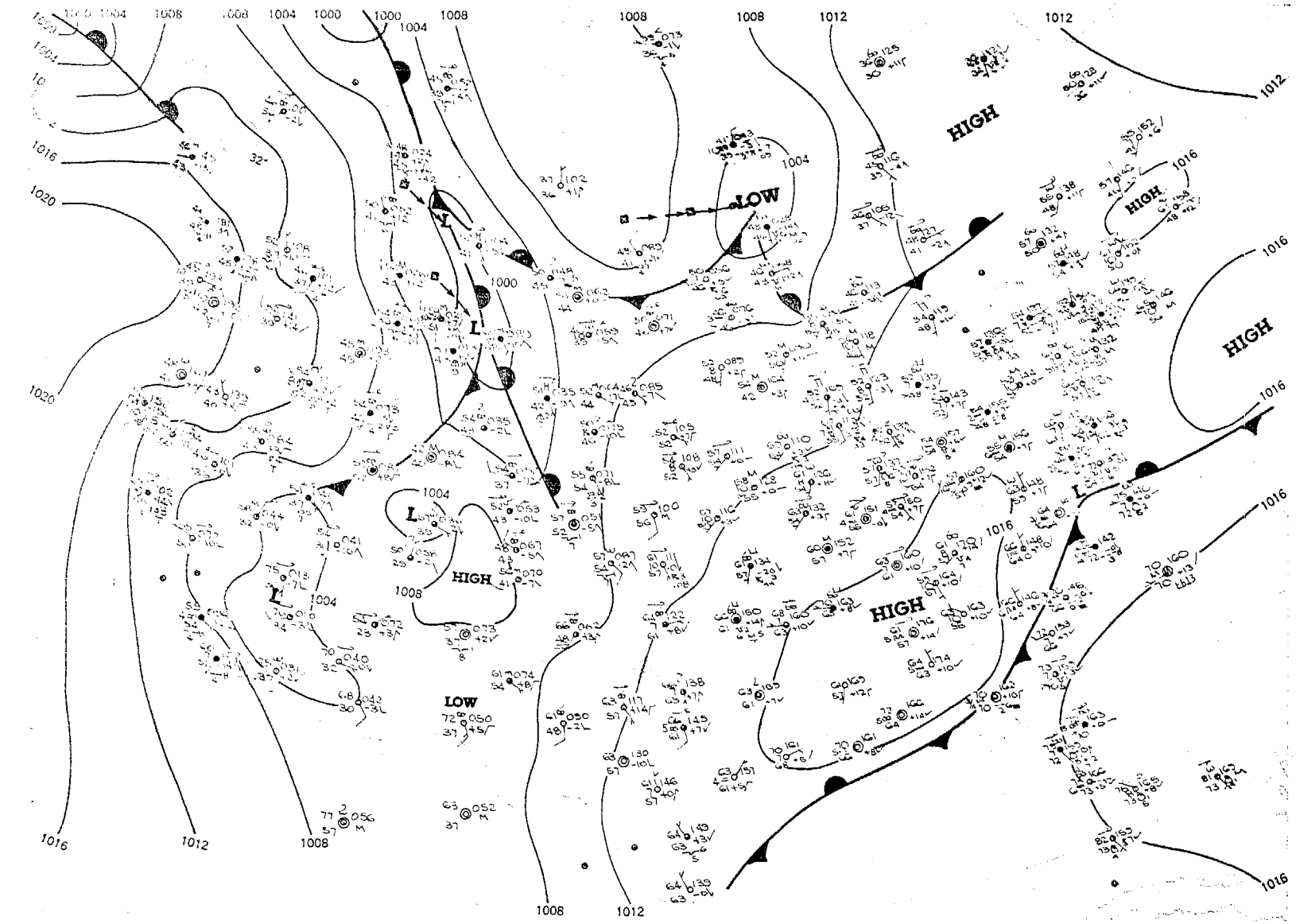
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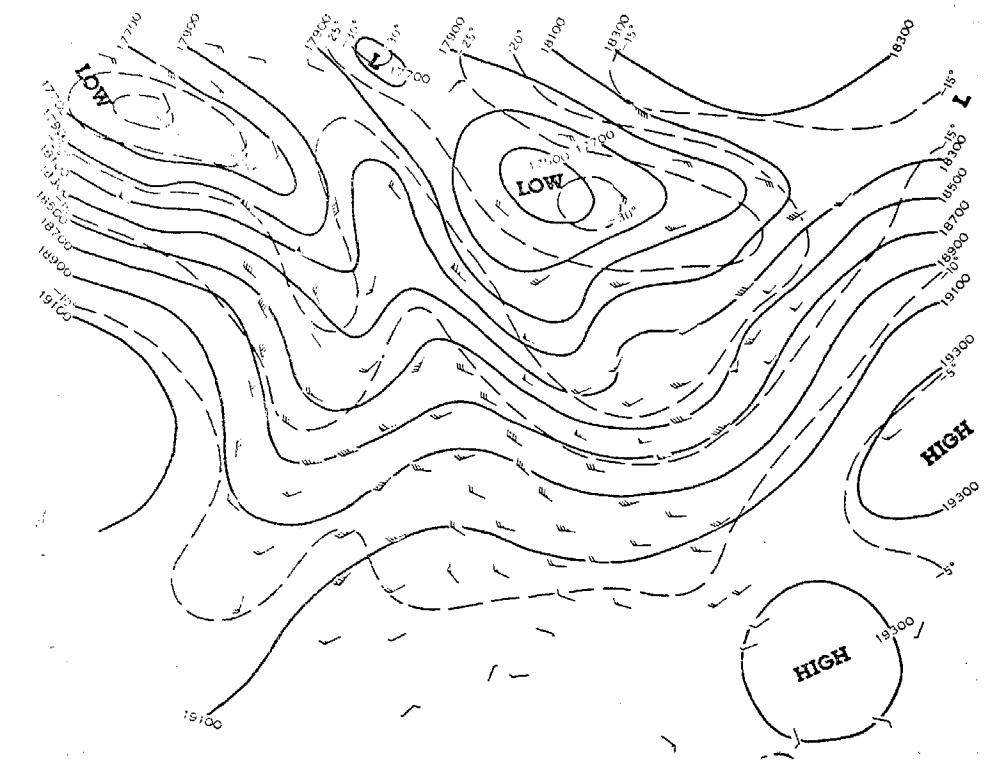
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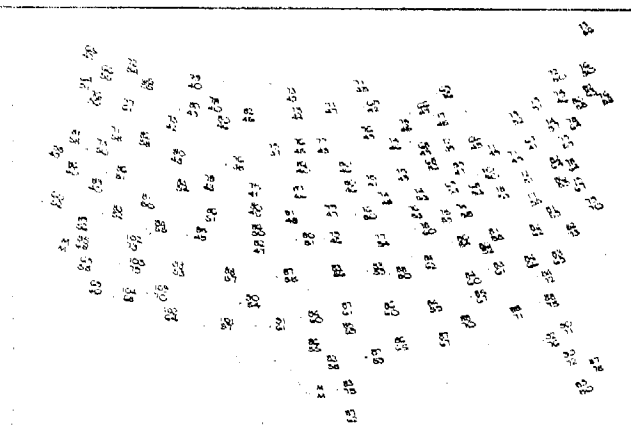

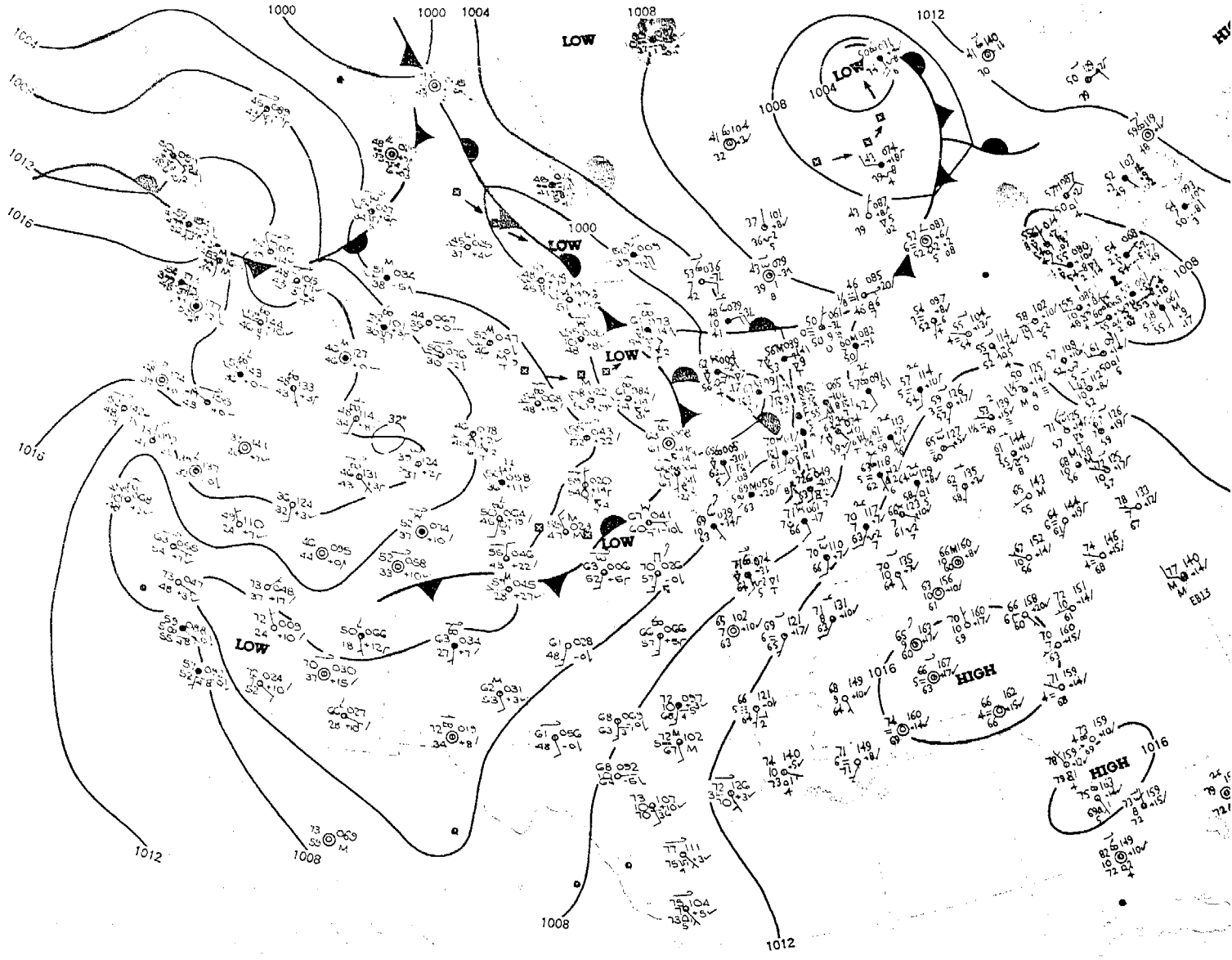
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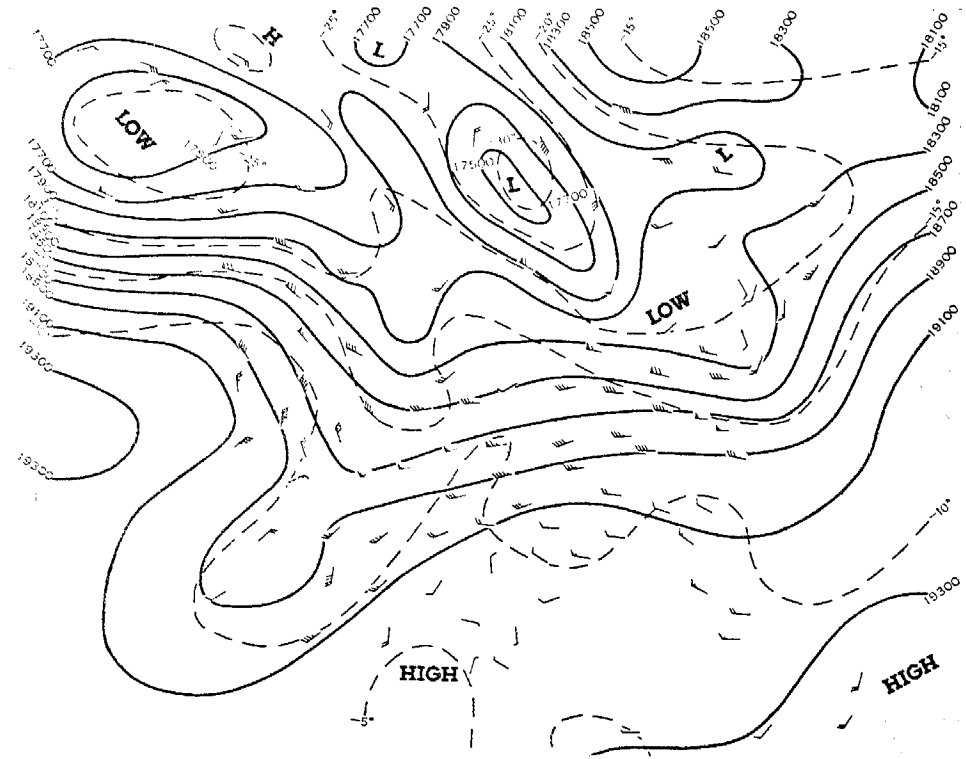
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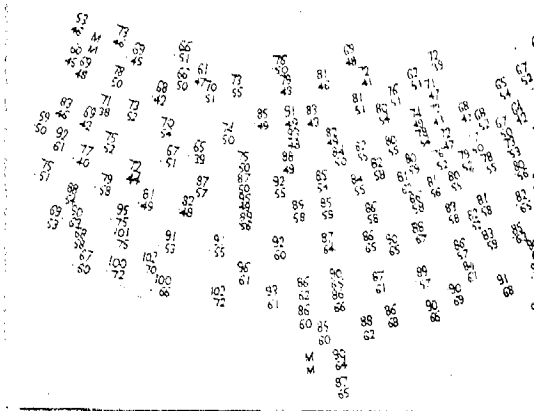

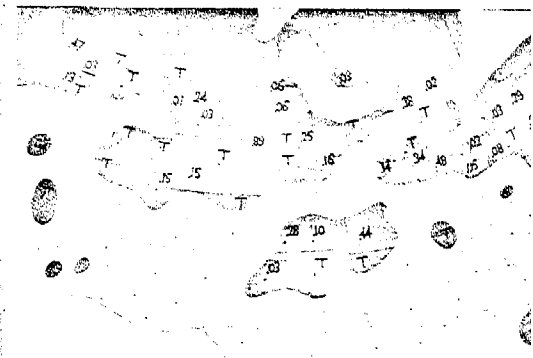

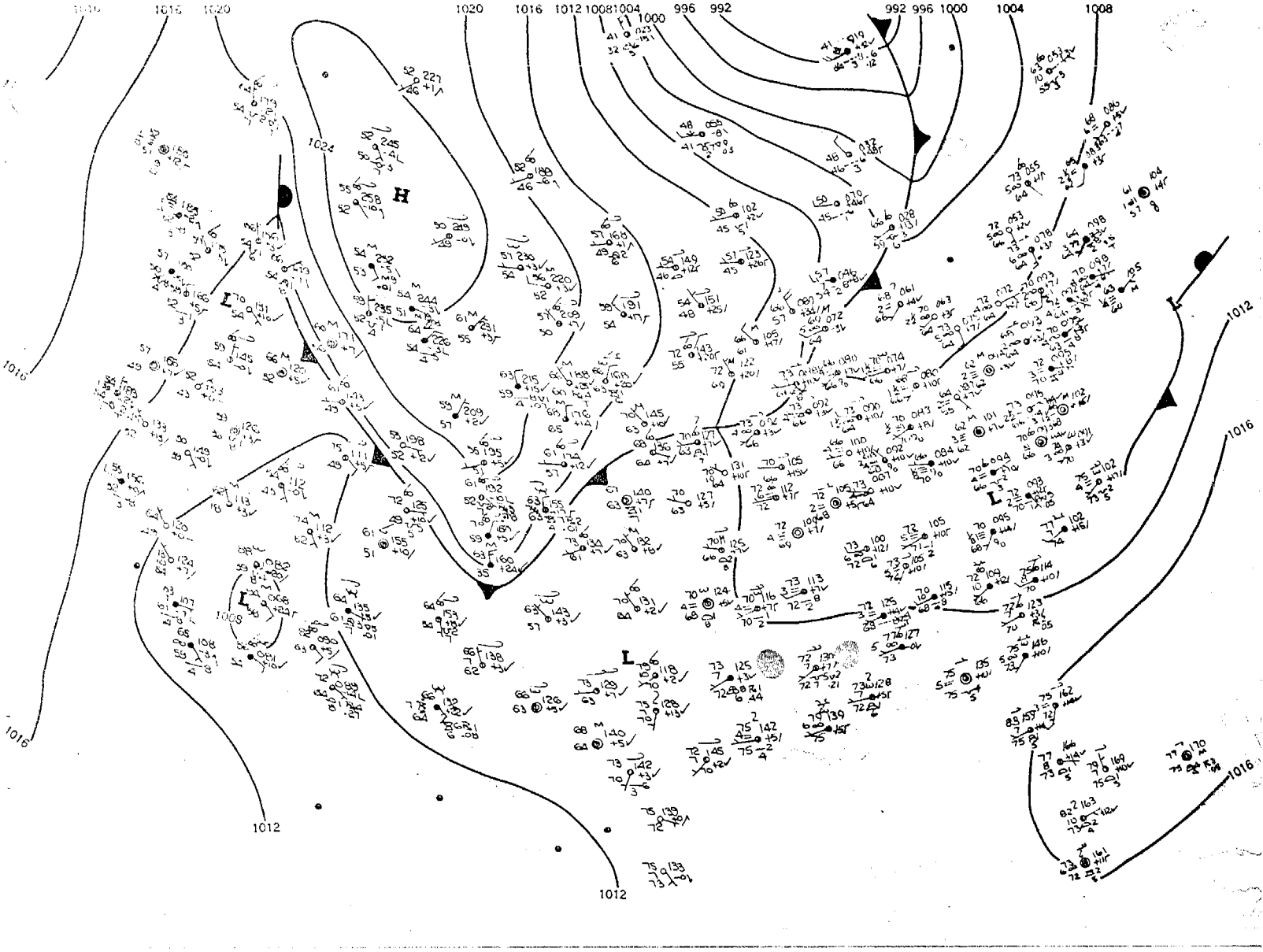
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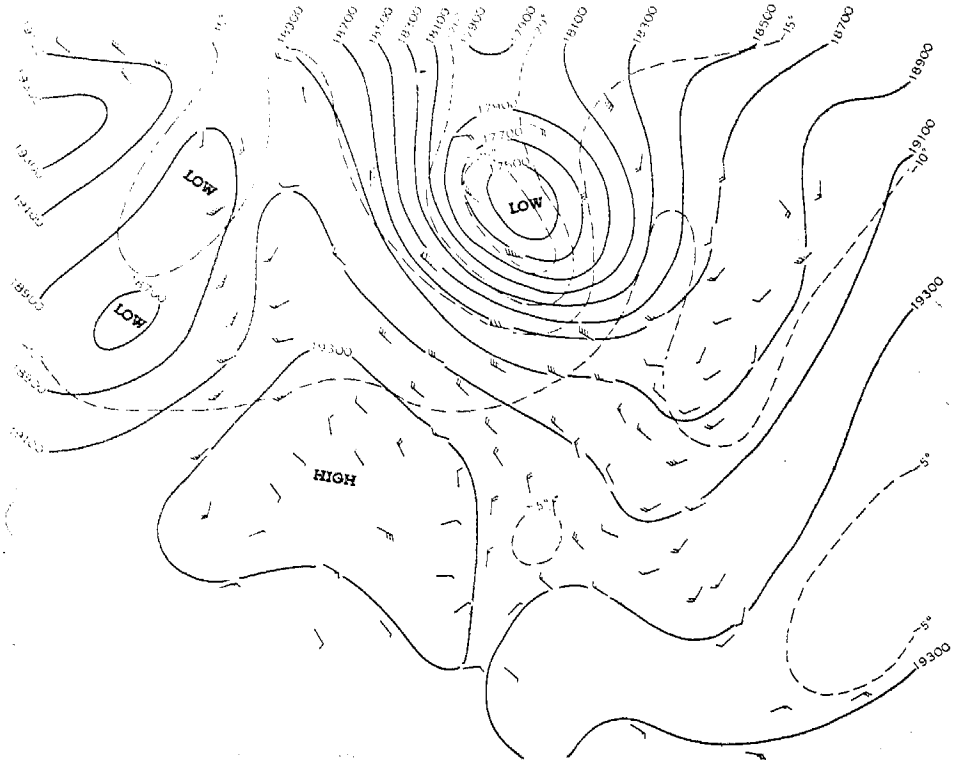
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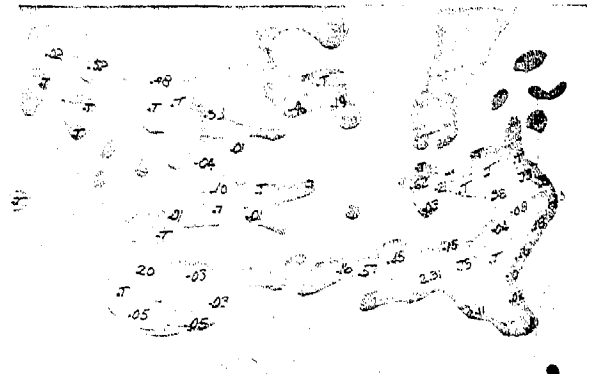

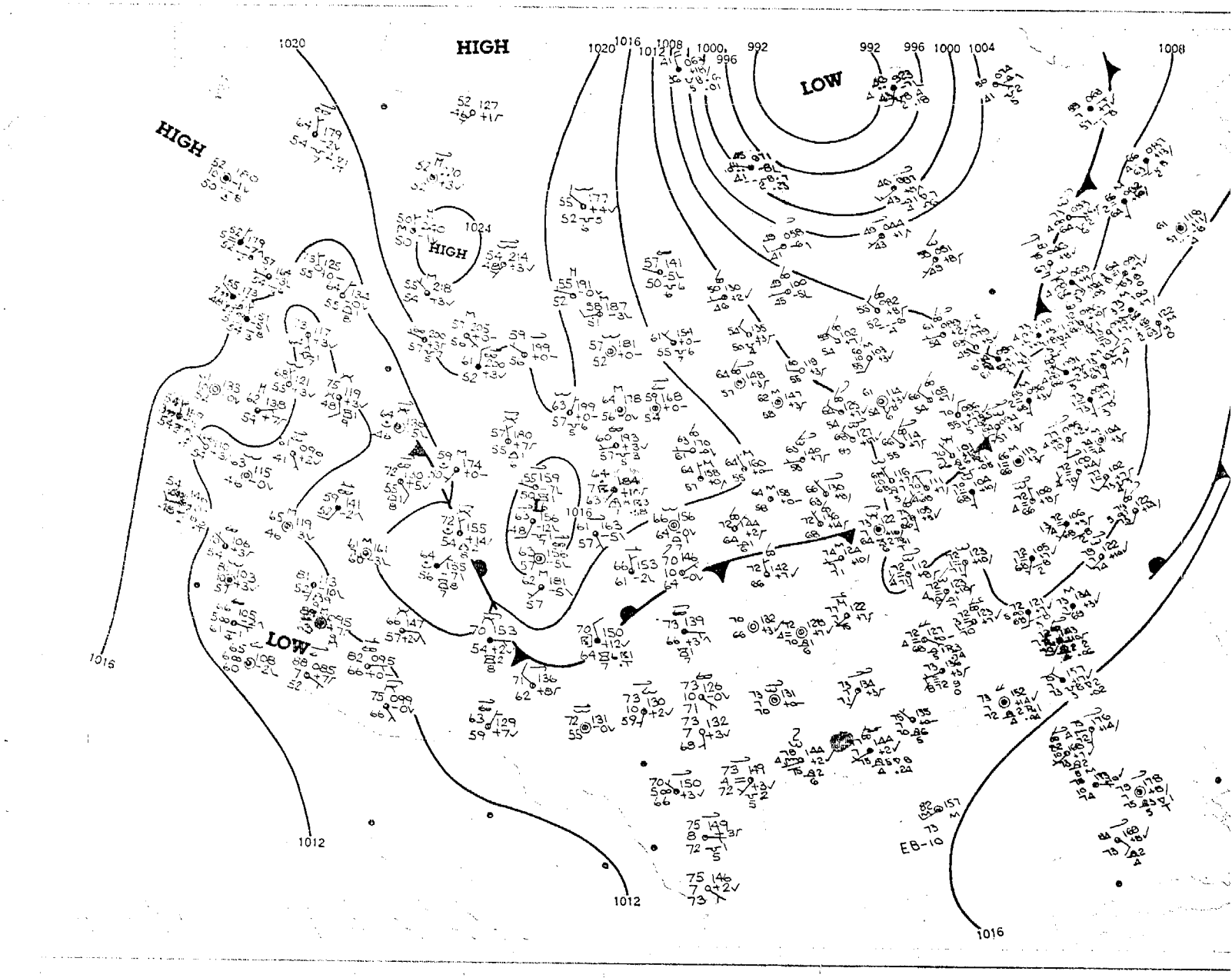
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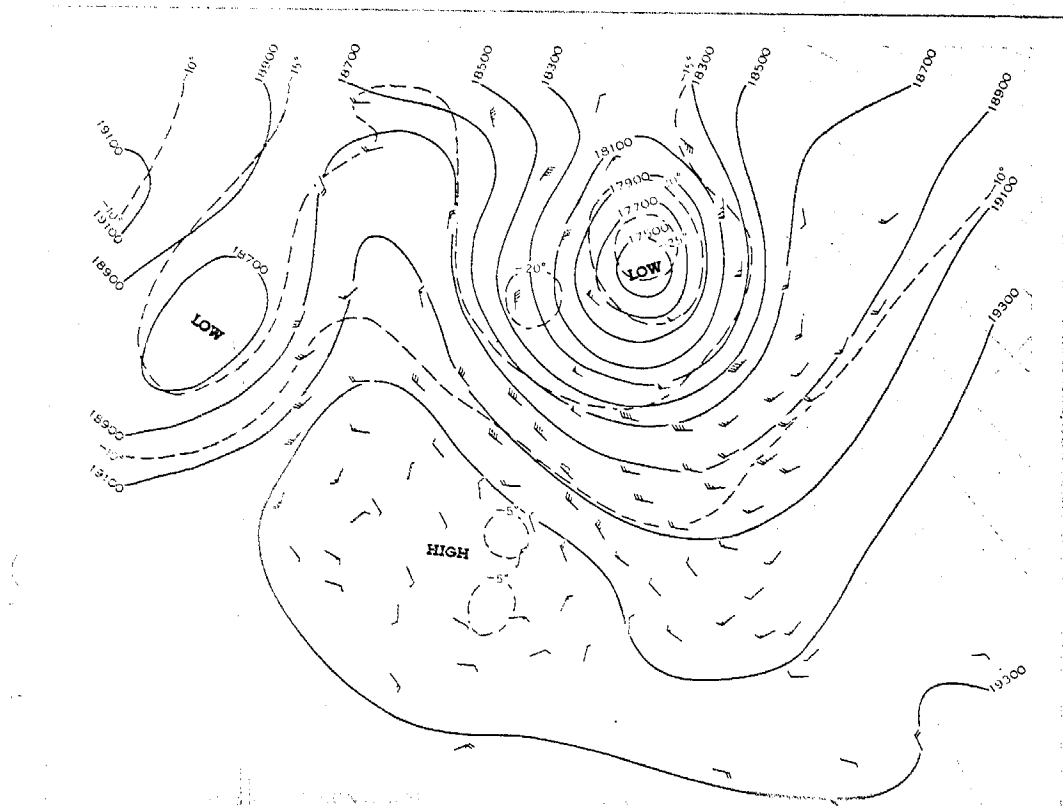
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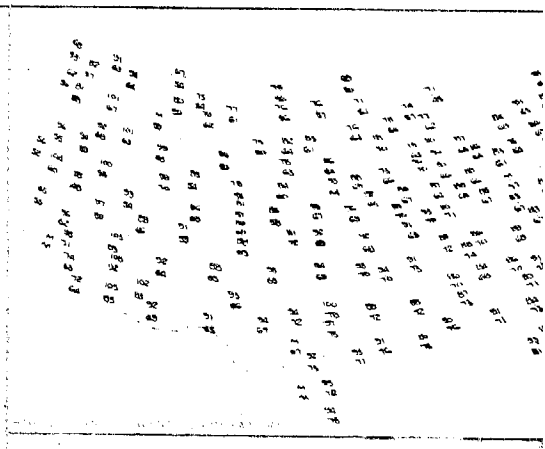

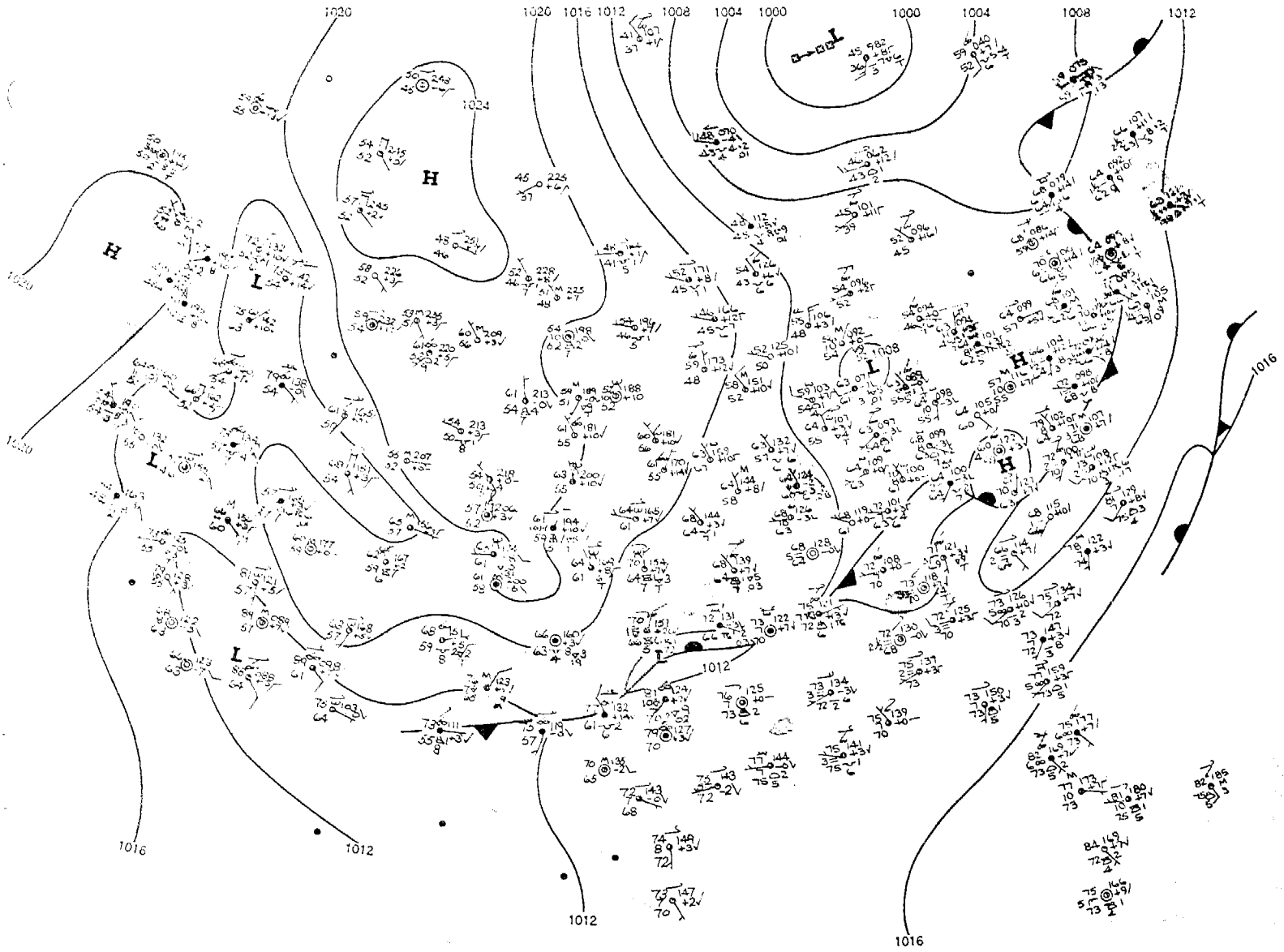
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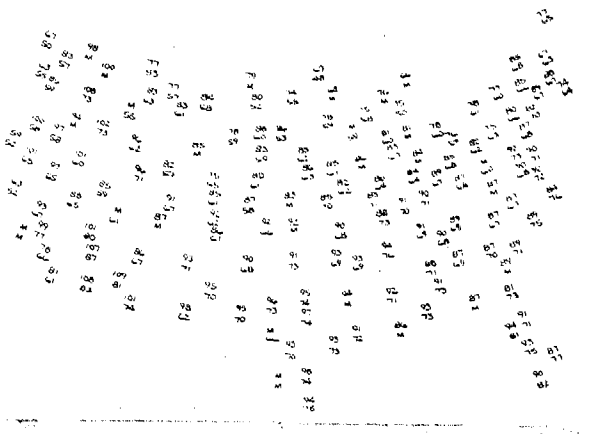

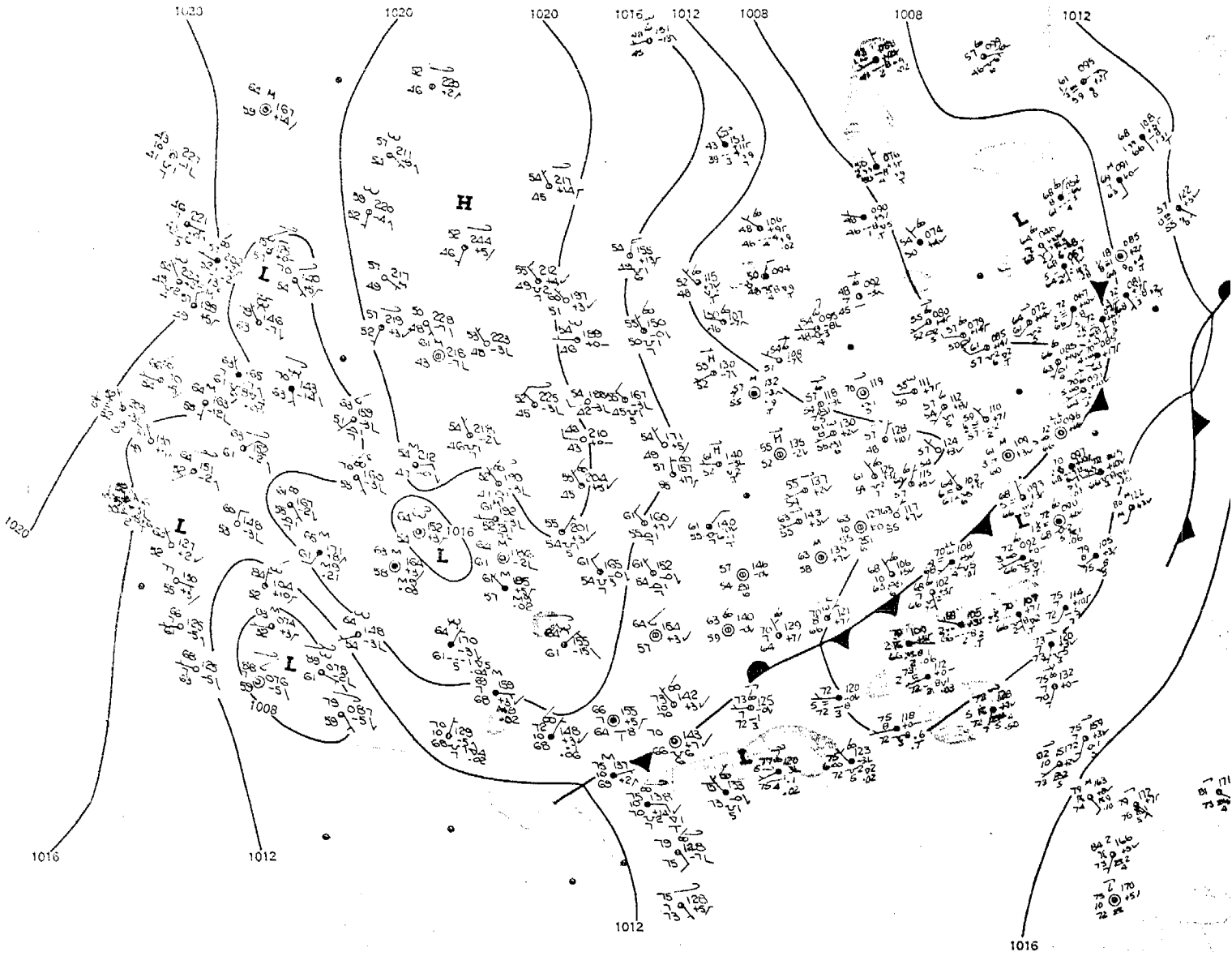
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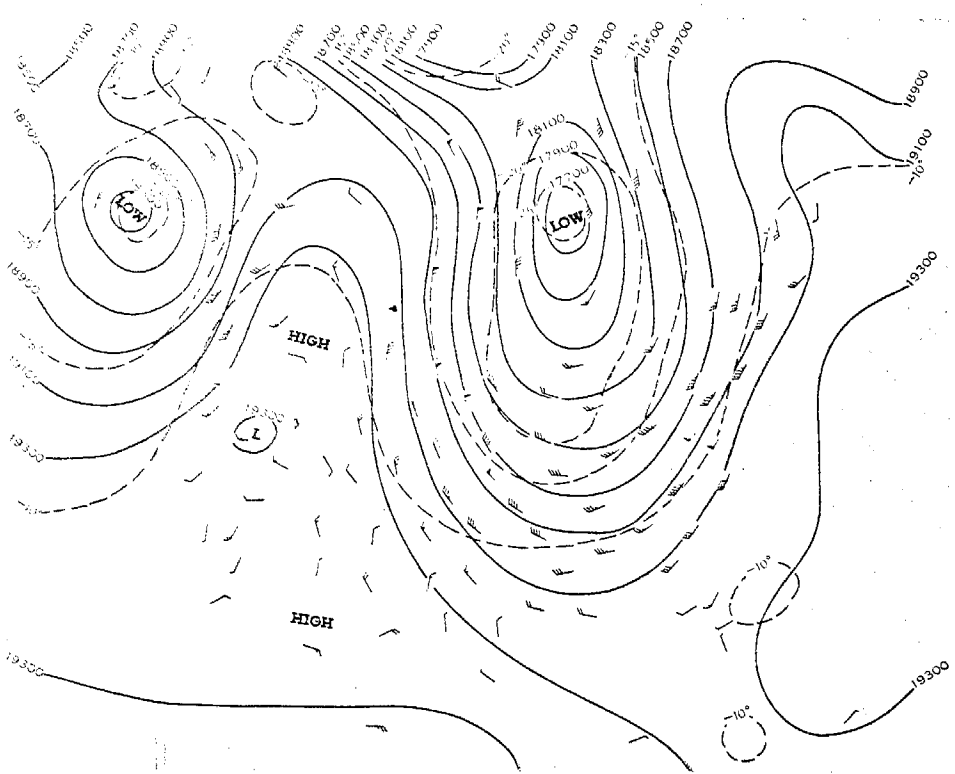
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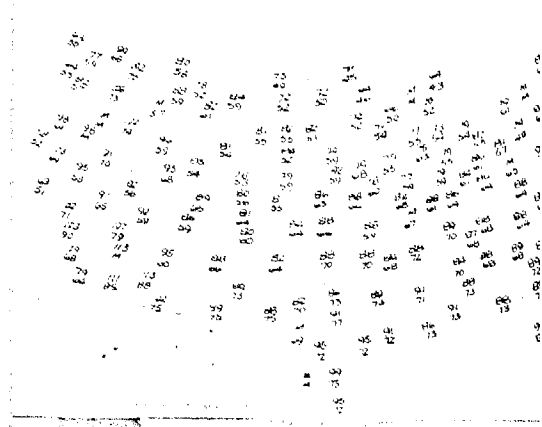

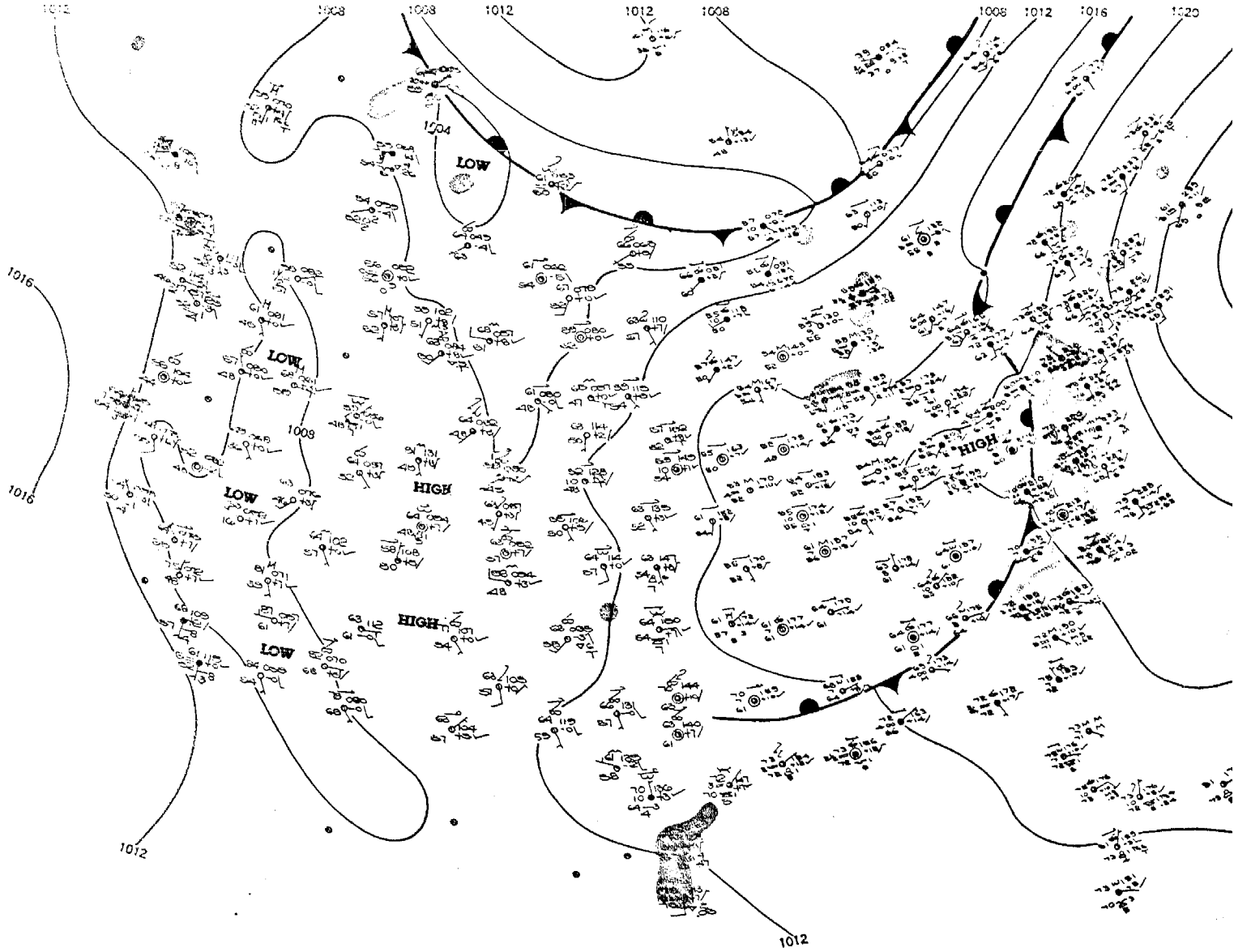
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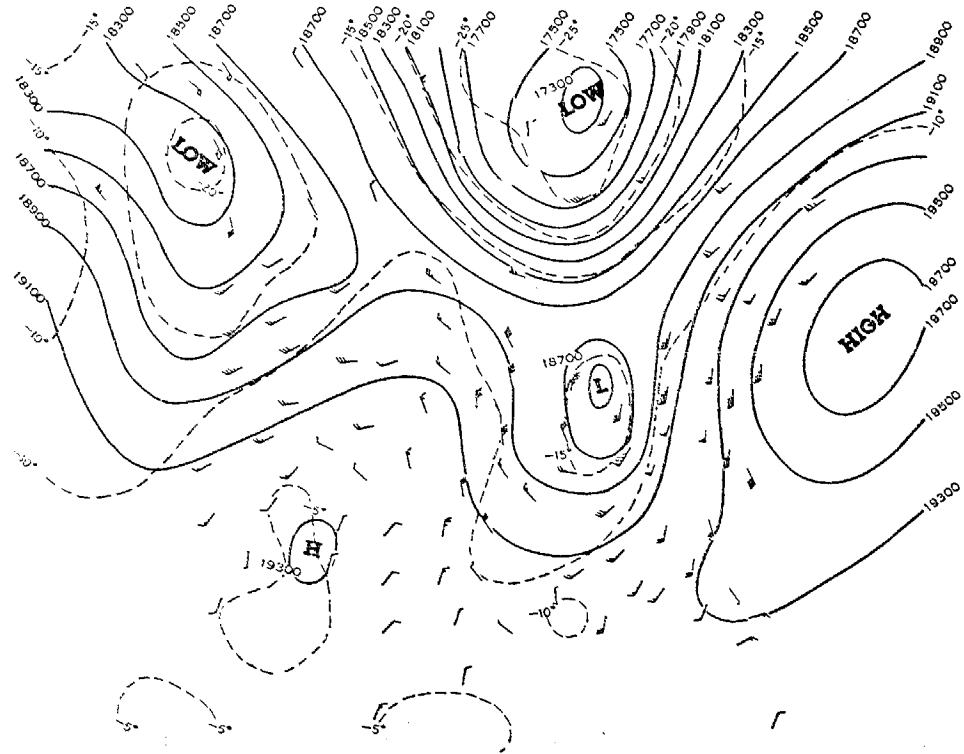
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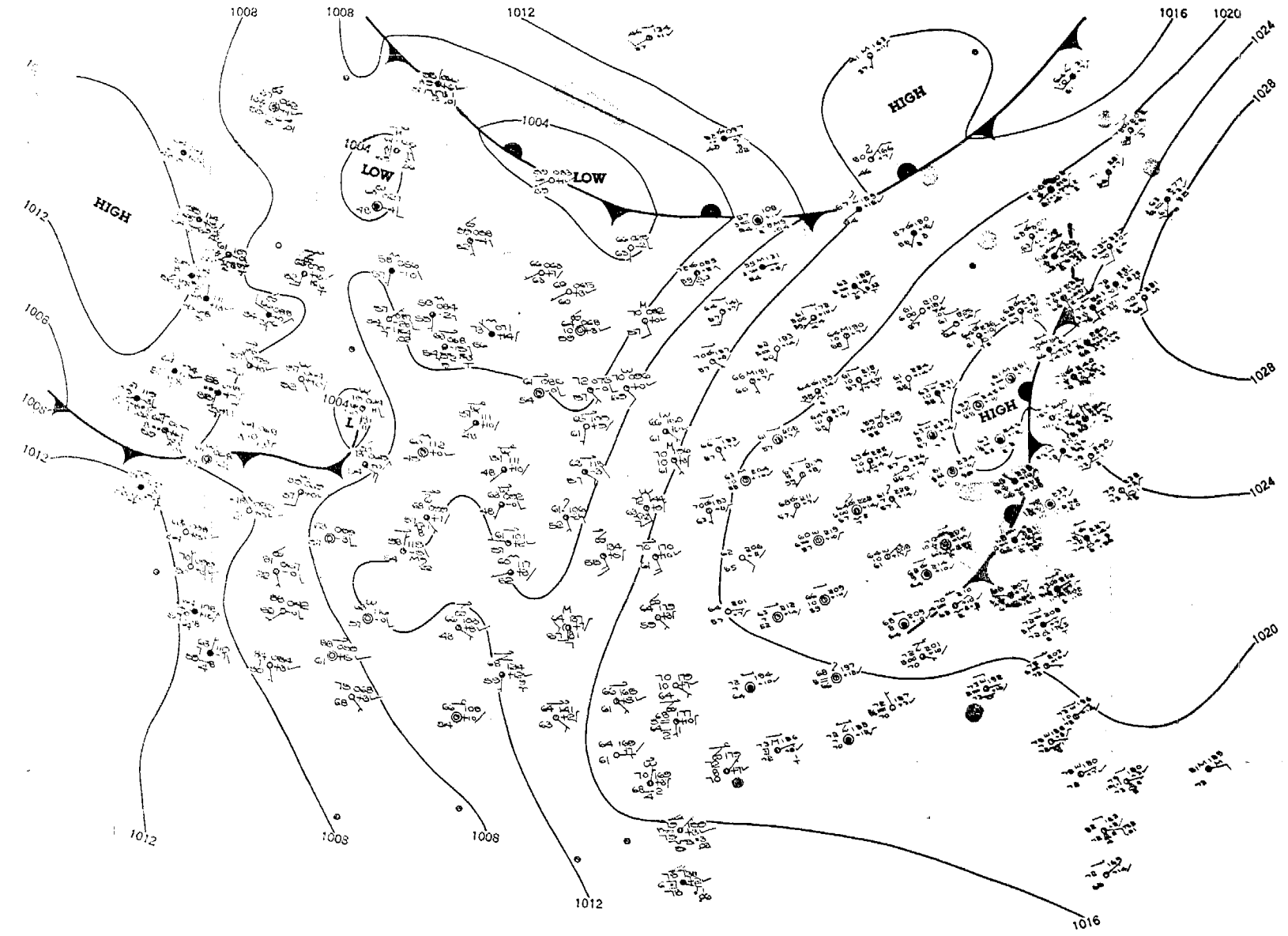
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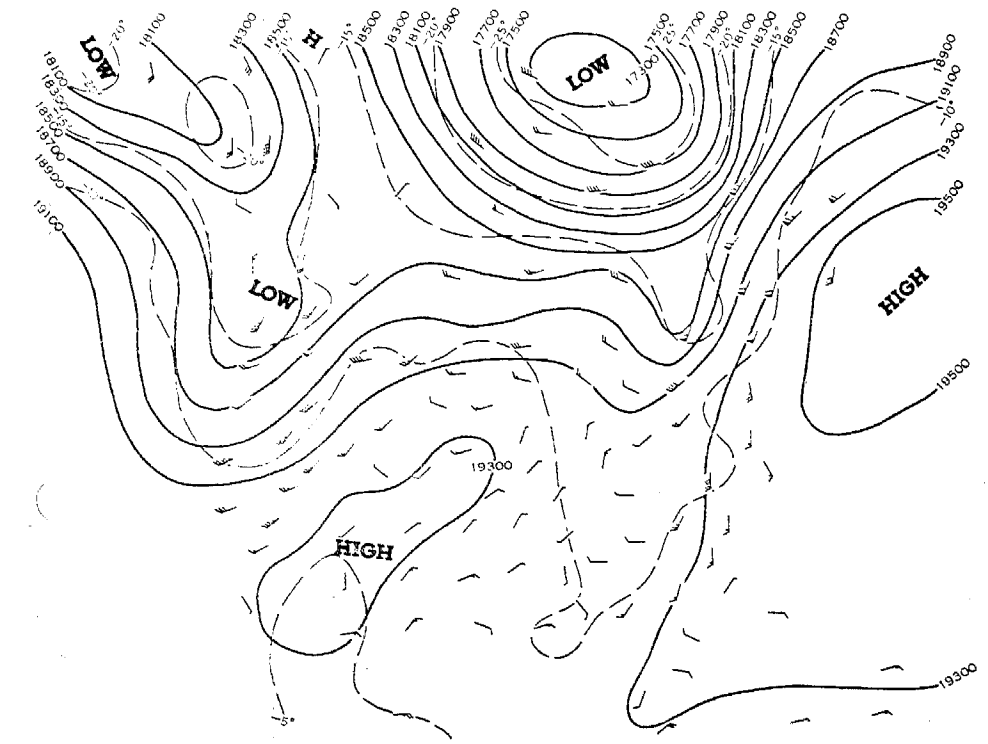
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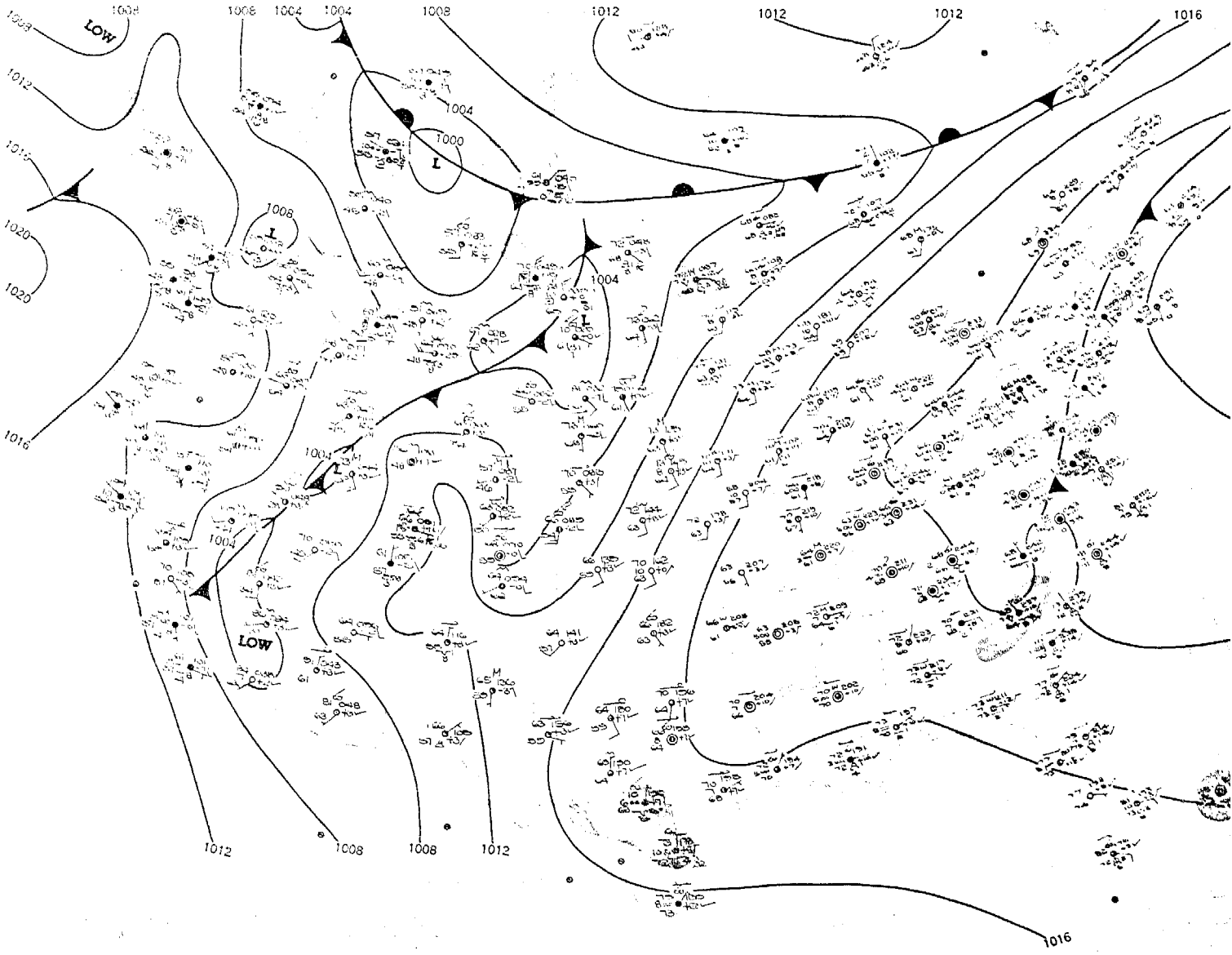
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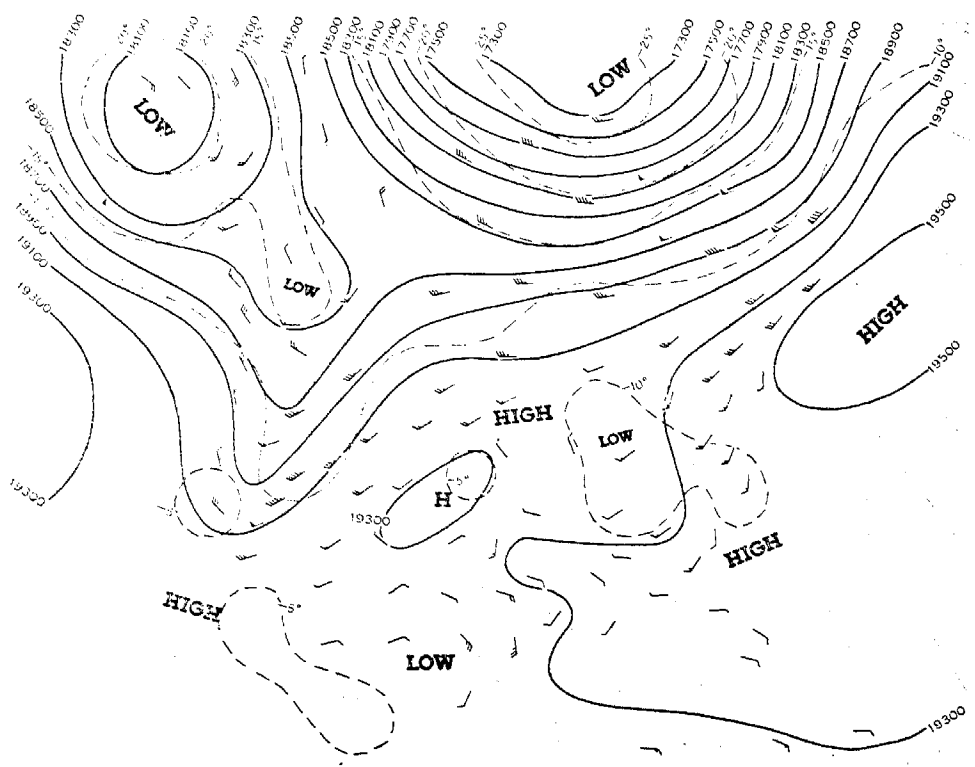
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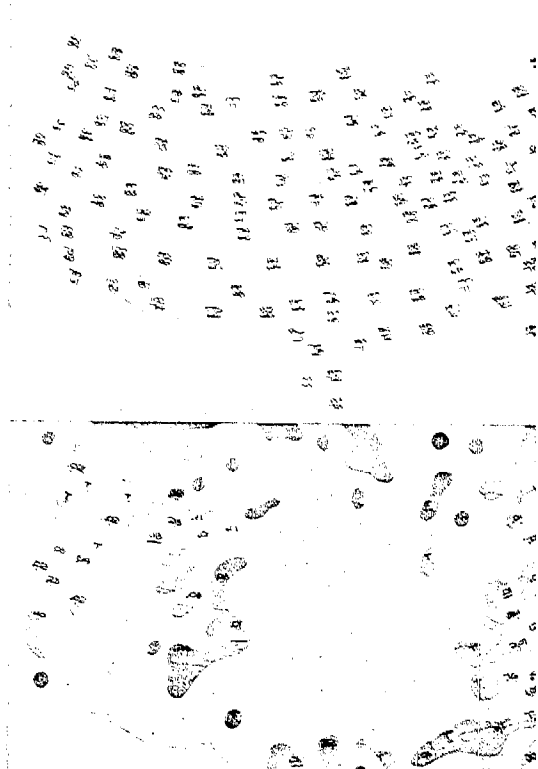

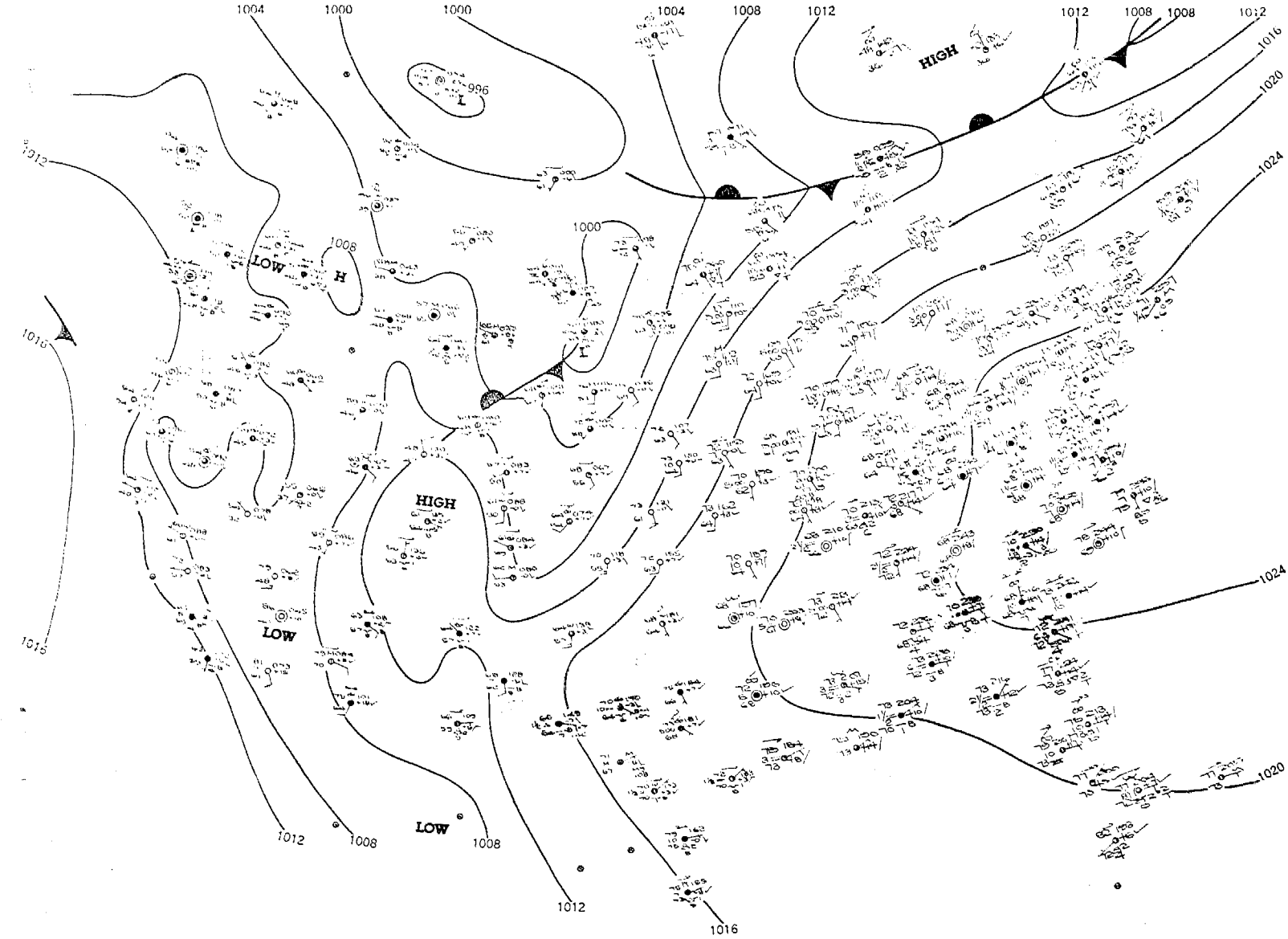
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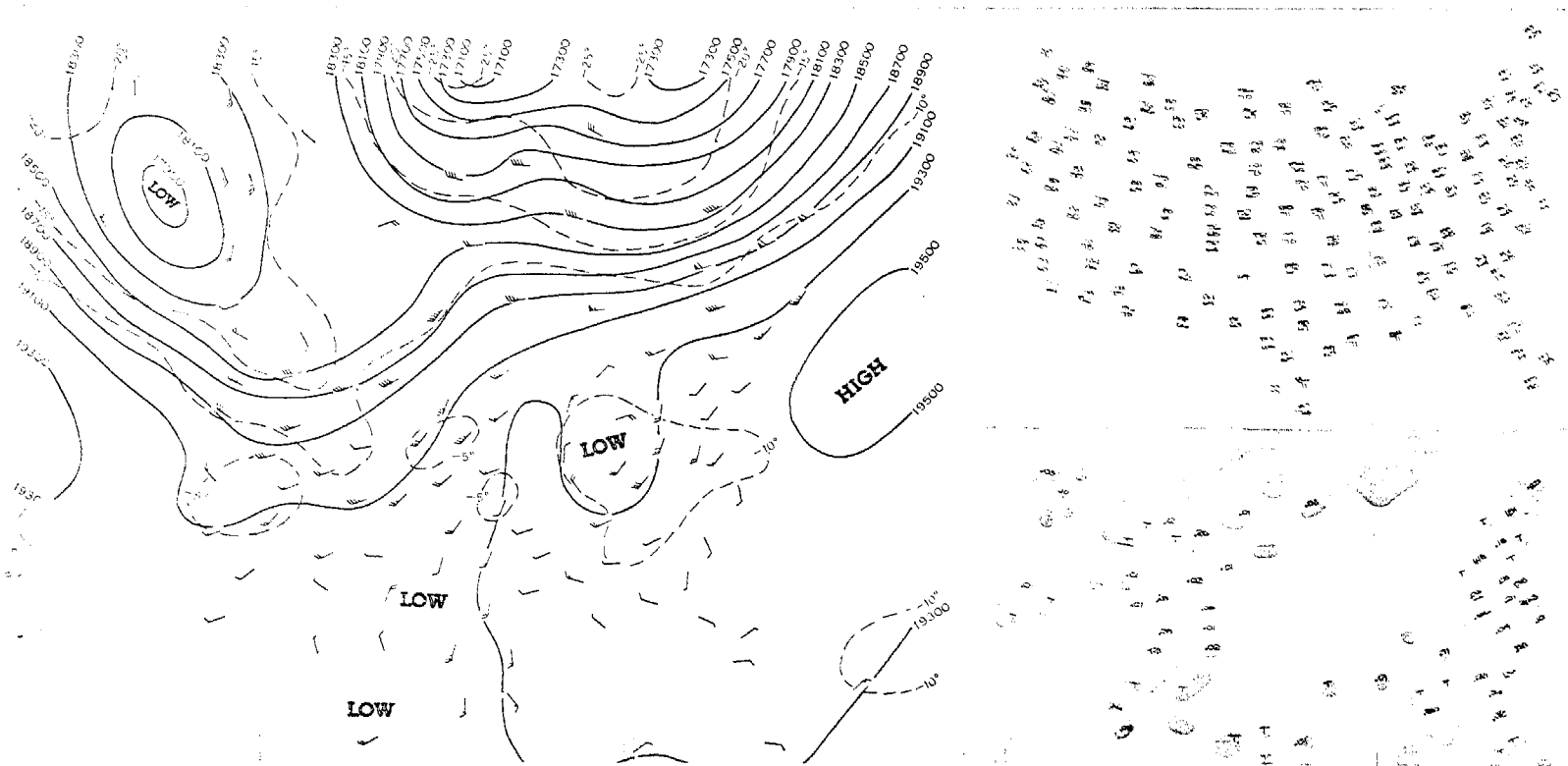
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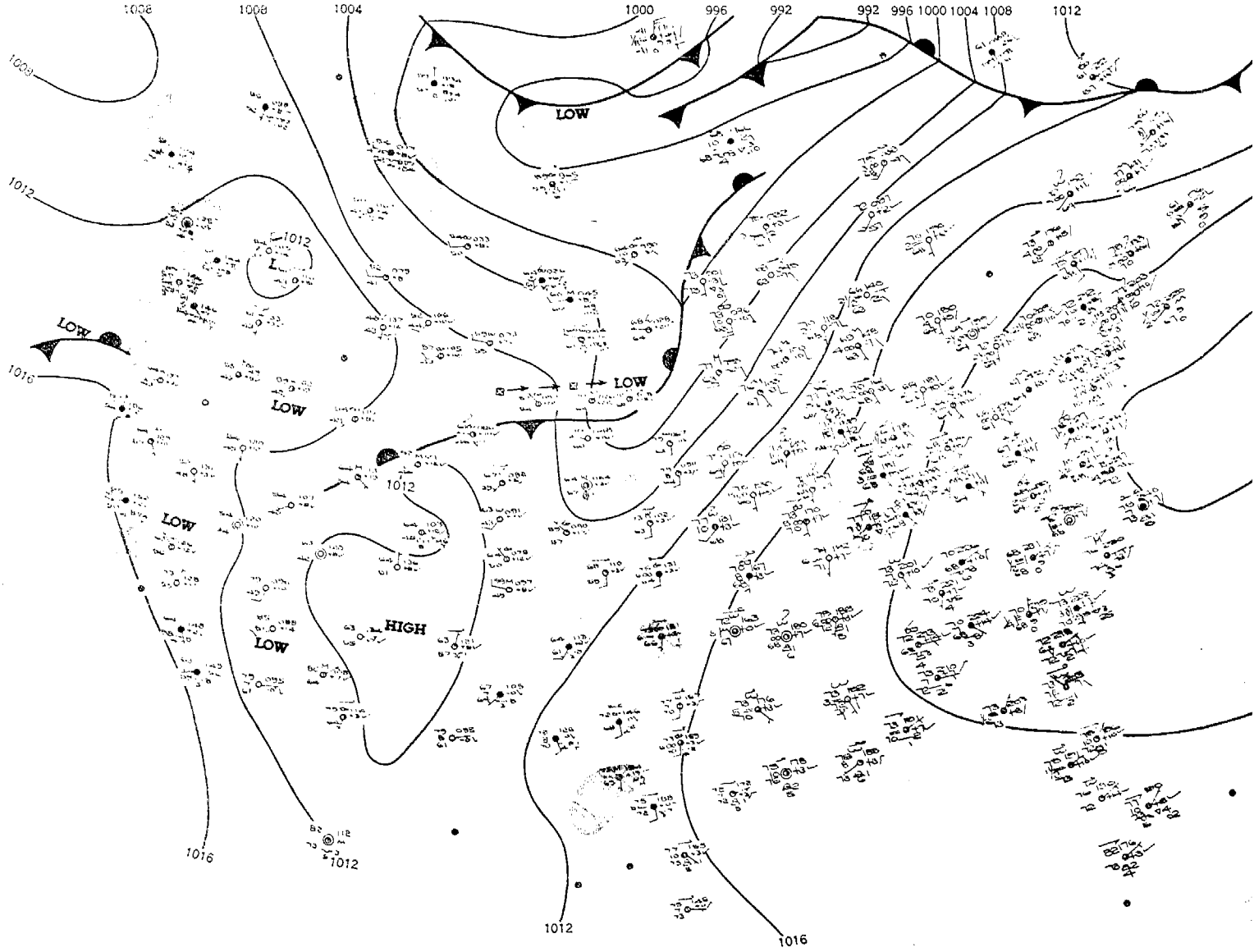
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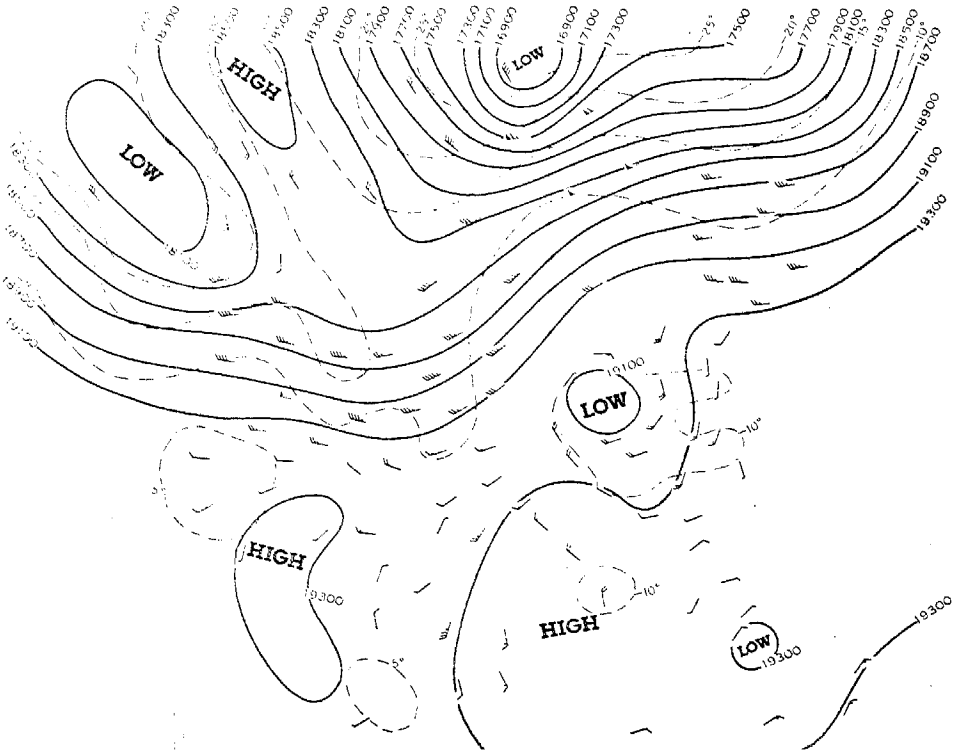
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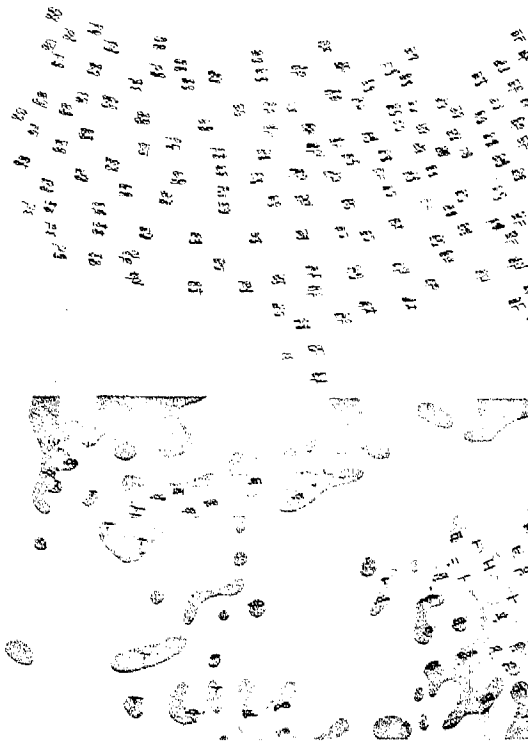
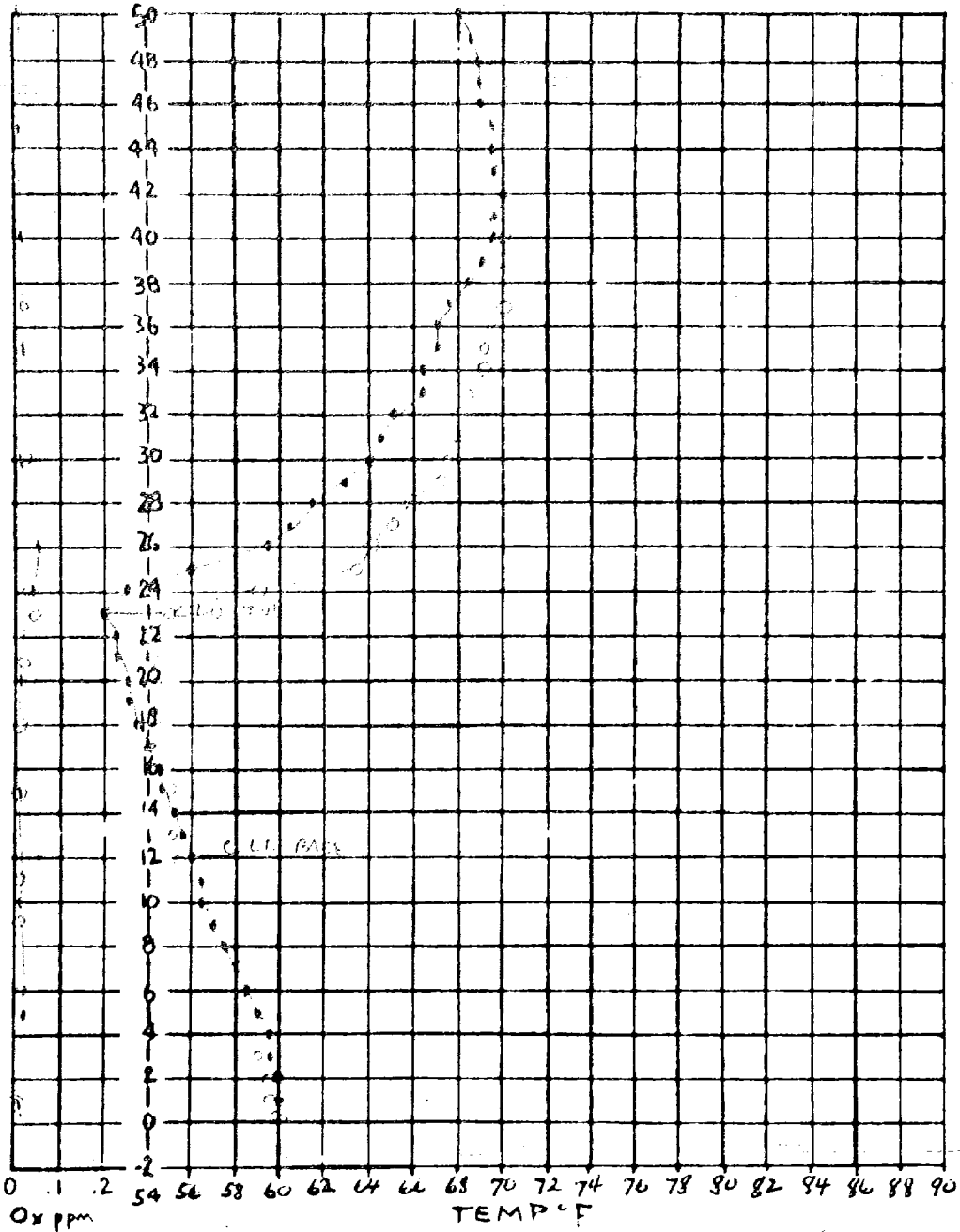
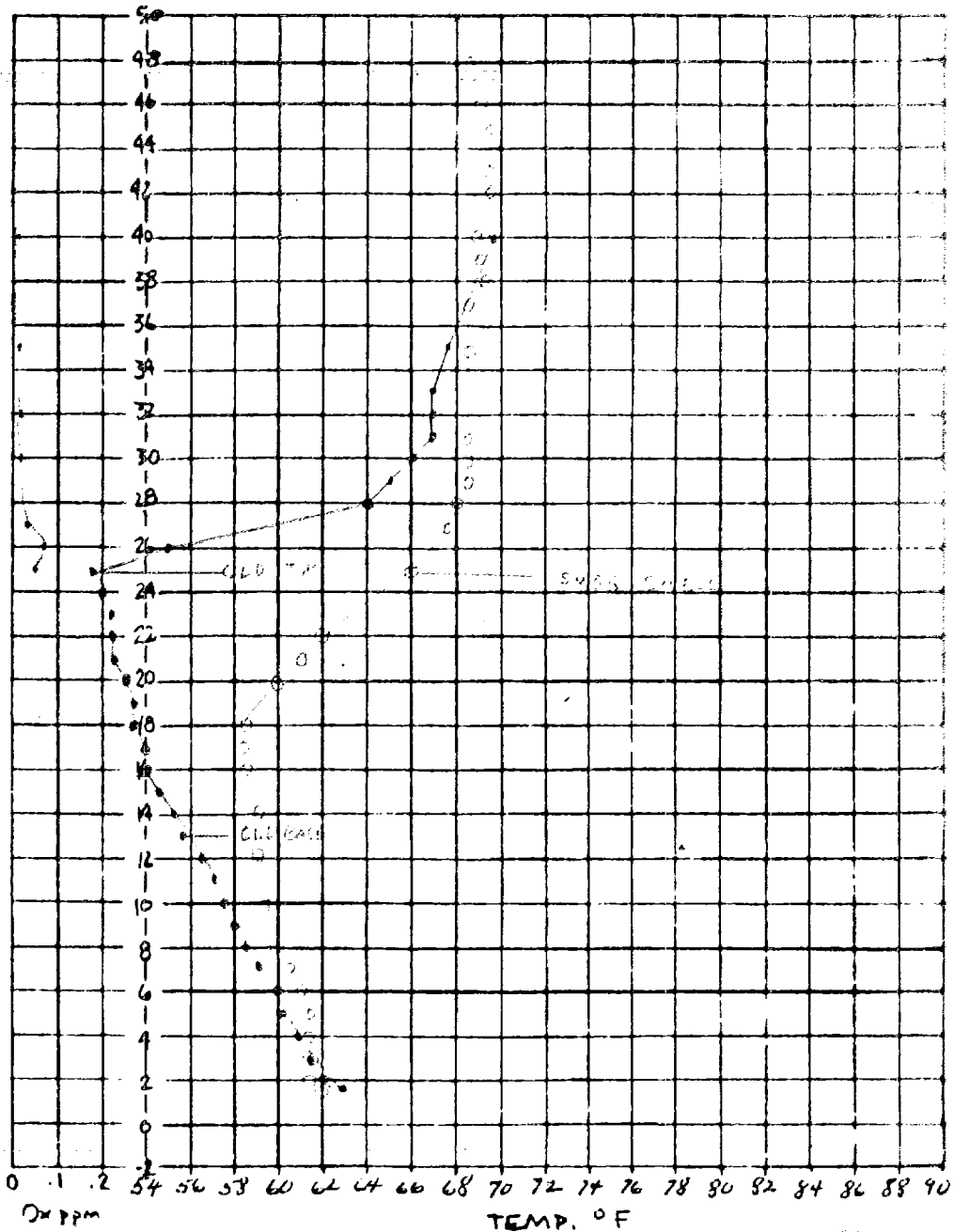


A P P E N D I X C

TEMPERATURE AND OZONE SOUNDINGS





STATION OXR TIME PDT DATE 6/2/75

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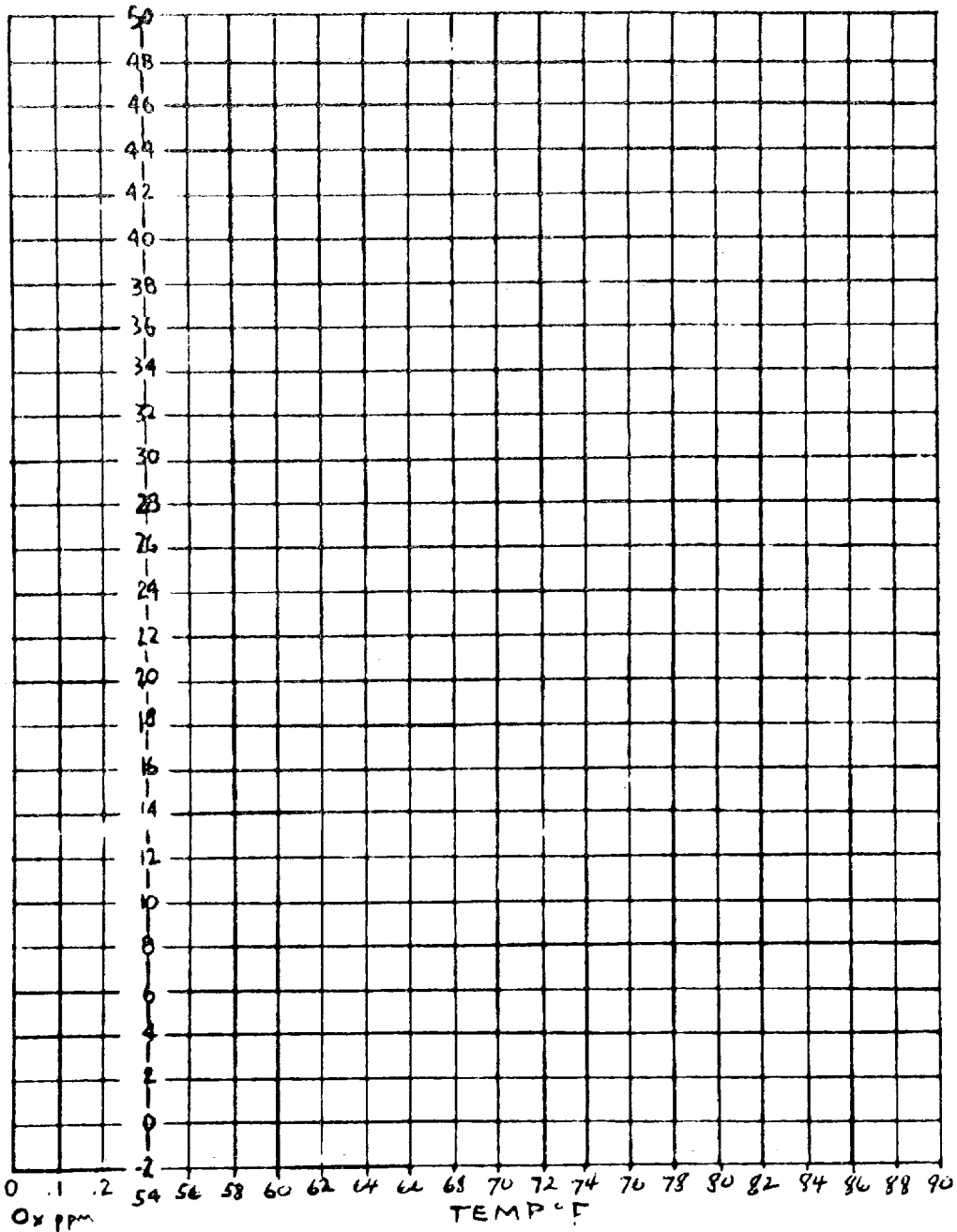
o down 1129-1140

STATION SMO TIME PDT

• up 1159-1216
o down 1206-1217

ALT. 100's OF FEET



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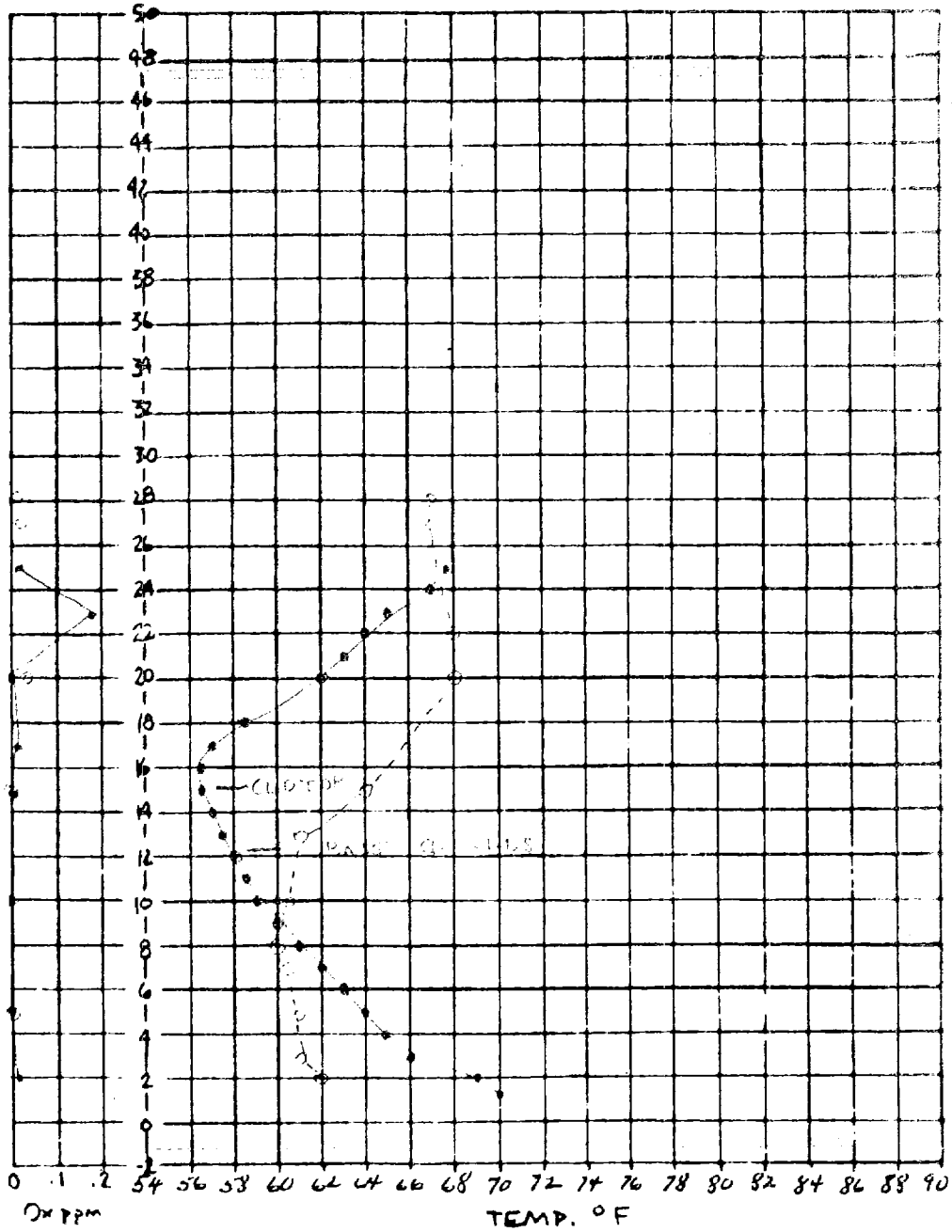

STATION _____ TIME _____ DATE 6/2/75

STATION SMO TIME PST

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• down 1617

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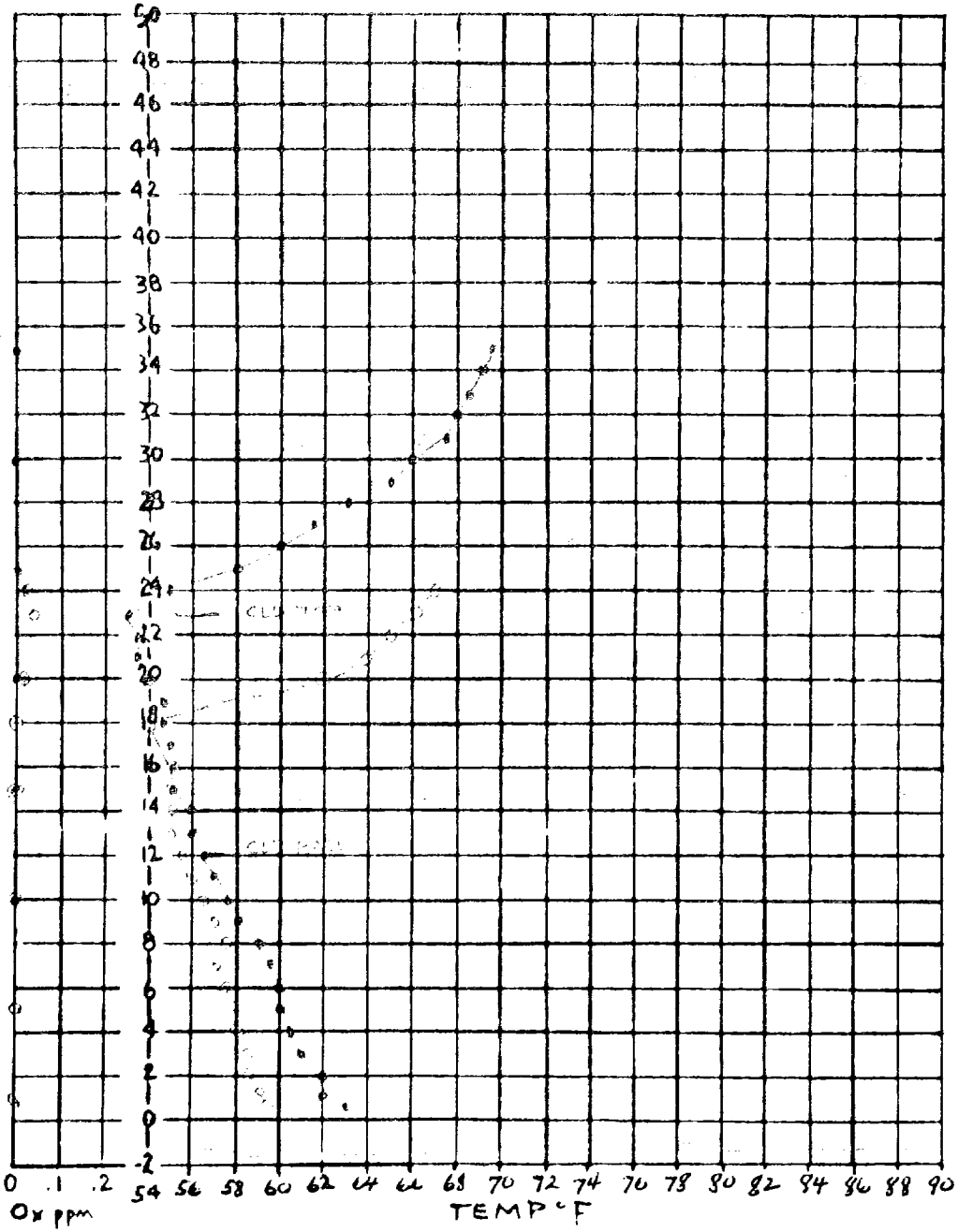

• up 1916 - 1925

STATION OXR TIME PDT DATE 6/3/75

o down 1840 - 1900

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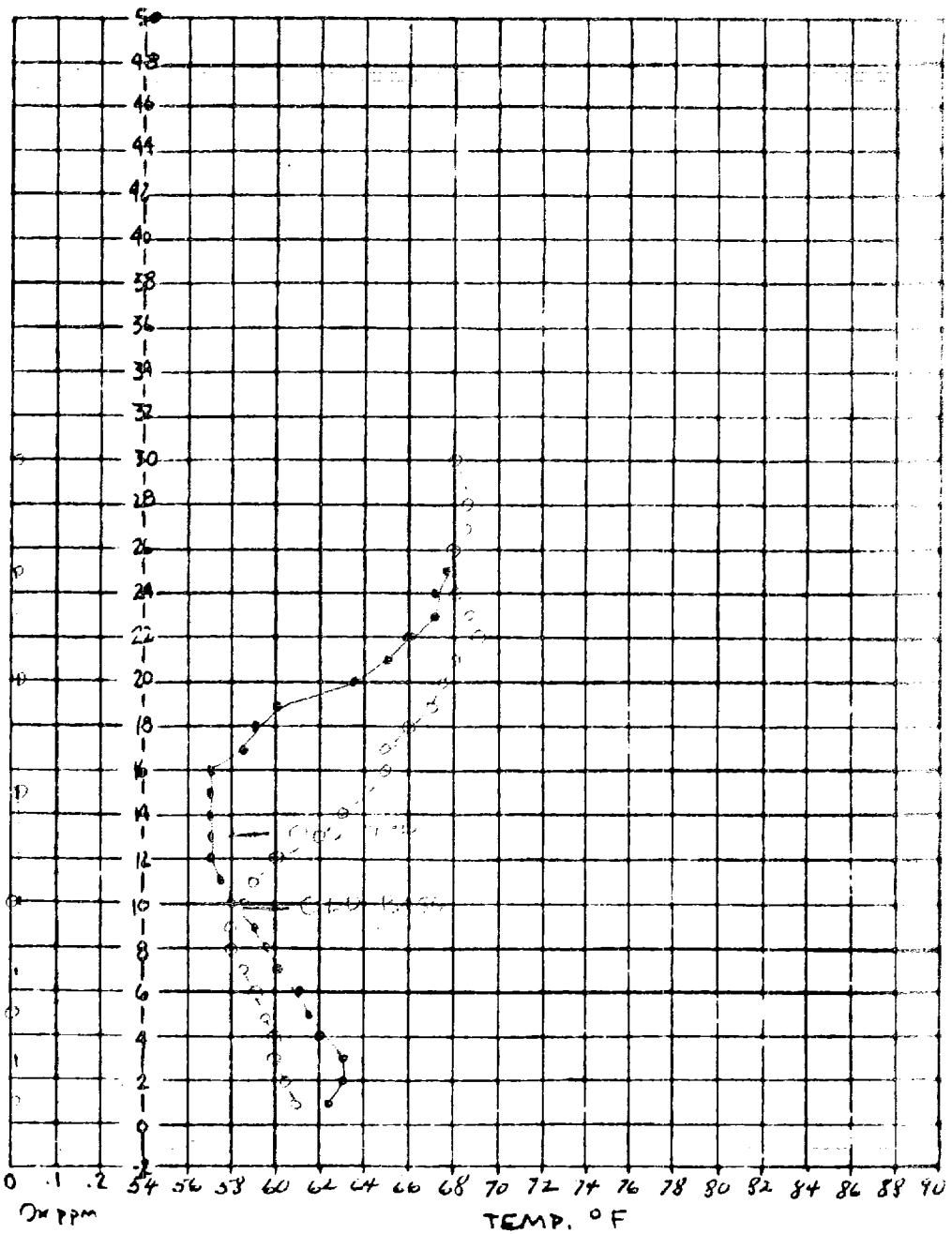

• up

STATION SMO TIME

o down 1950

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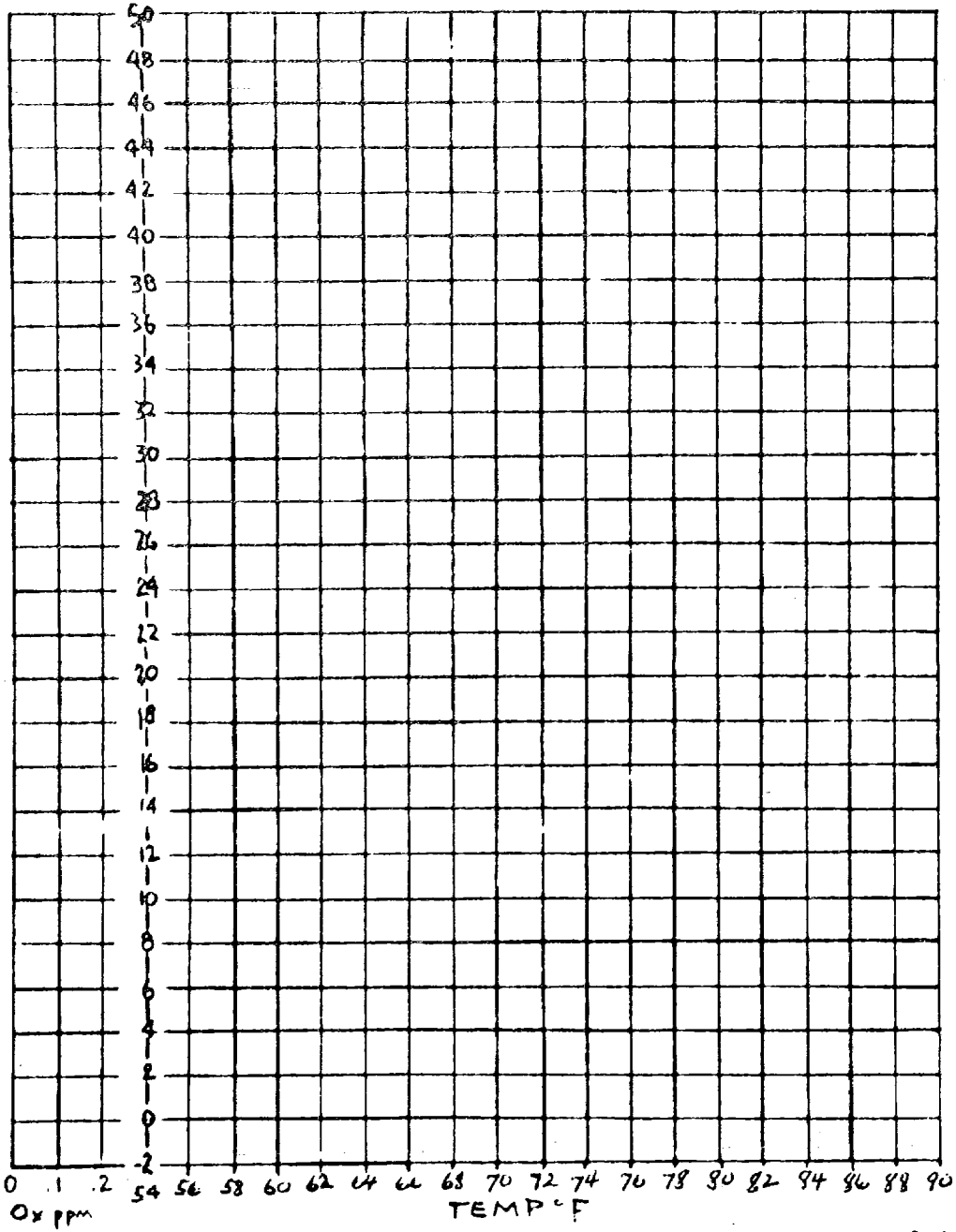

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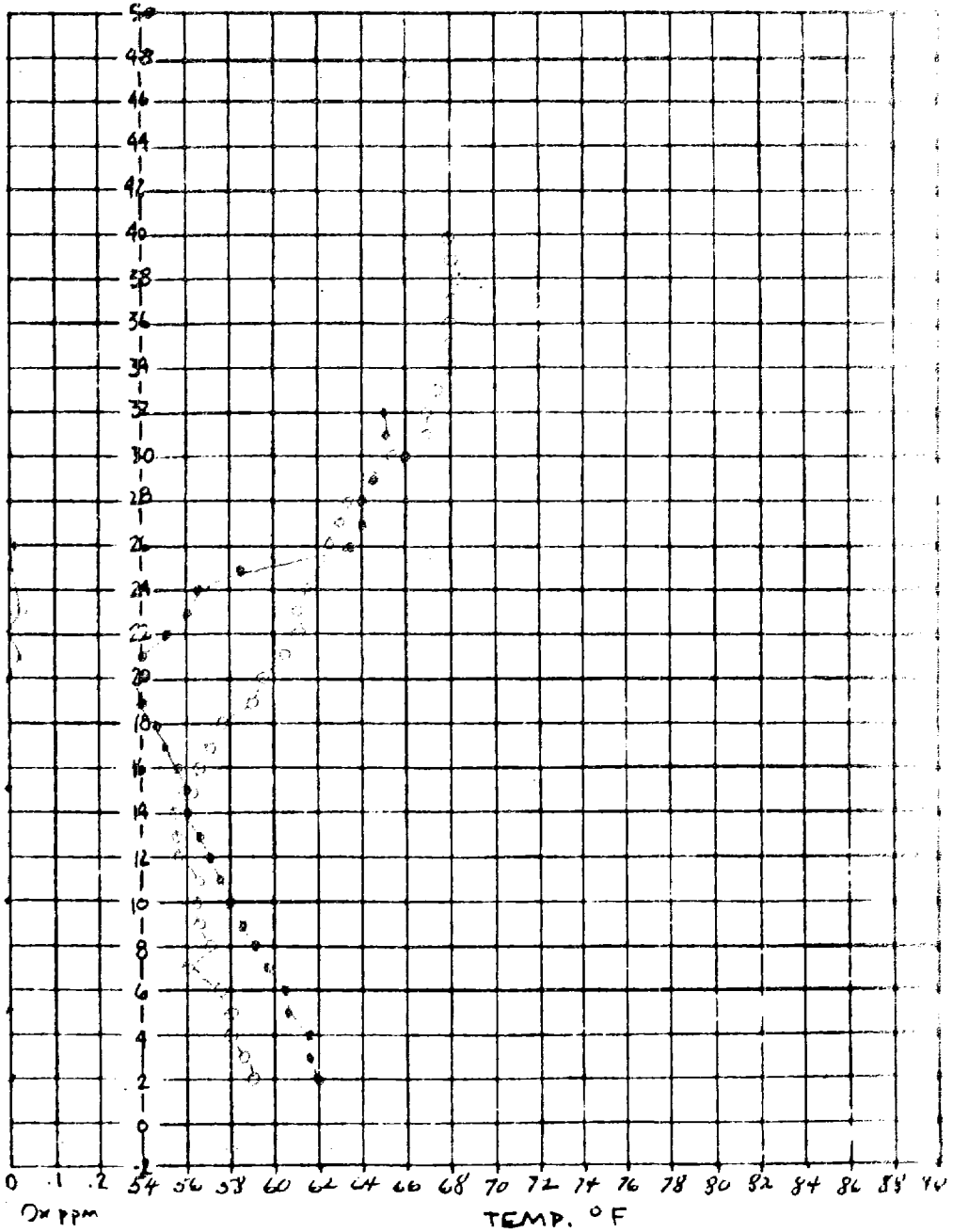

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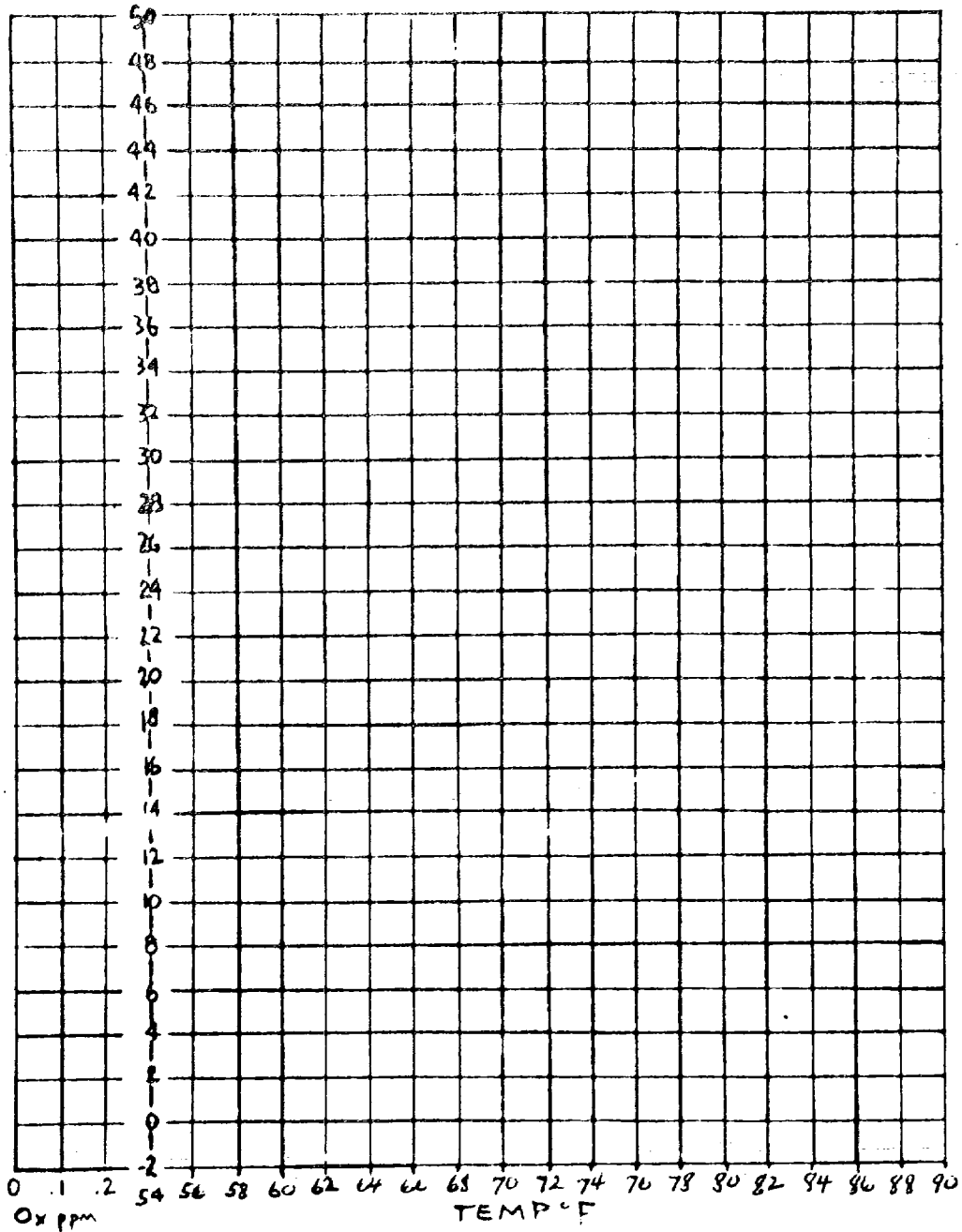
STATION _____ TIME _____ DATE 6/2/75

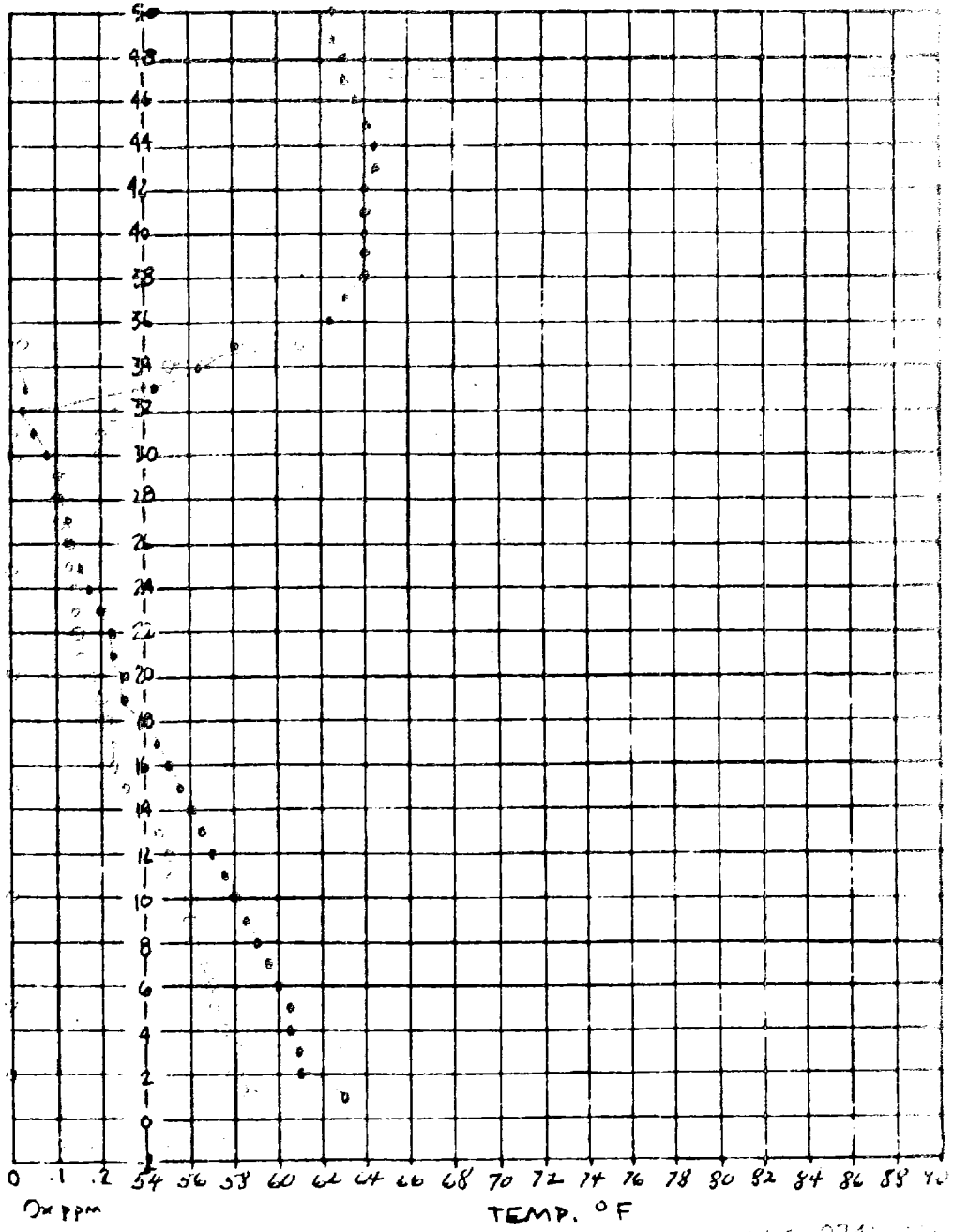
STATION SMD TIME

ALT. 100'S OF FEET



STATION _____ TIME _____ DATE 6/3/75

ALT. 100'S OF FEET



STATION SMO TIME _____

C-5

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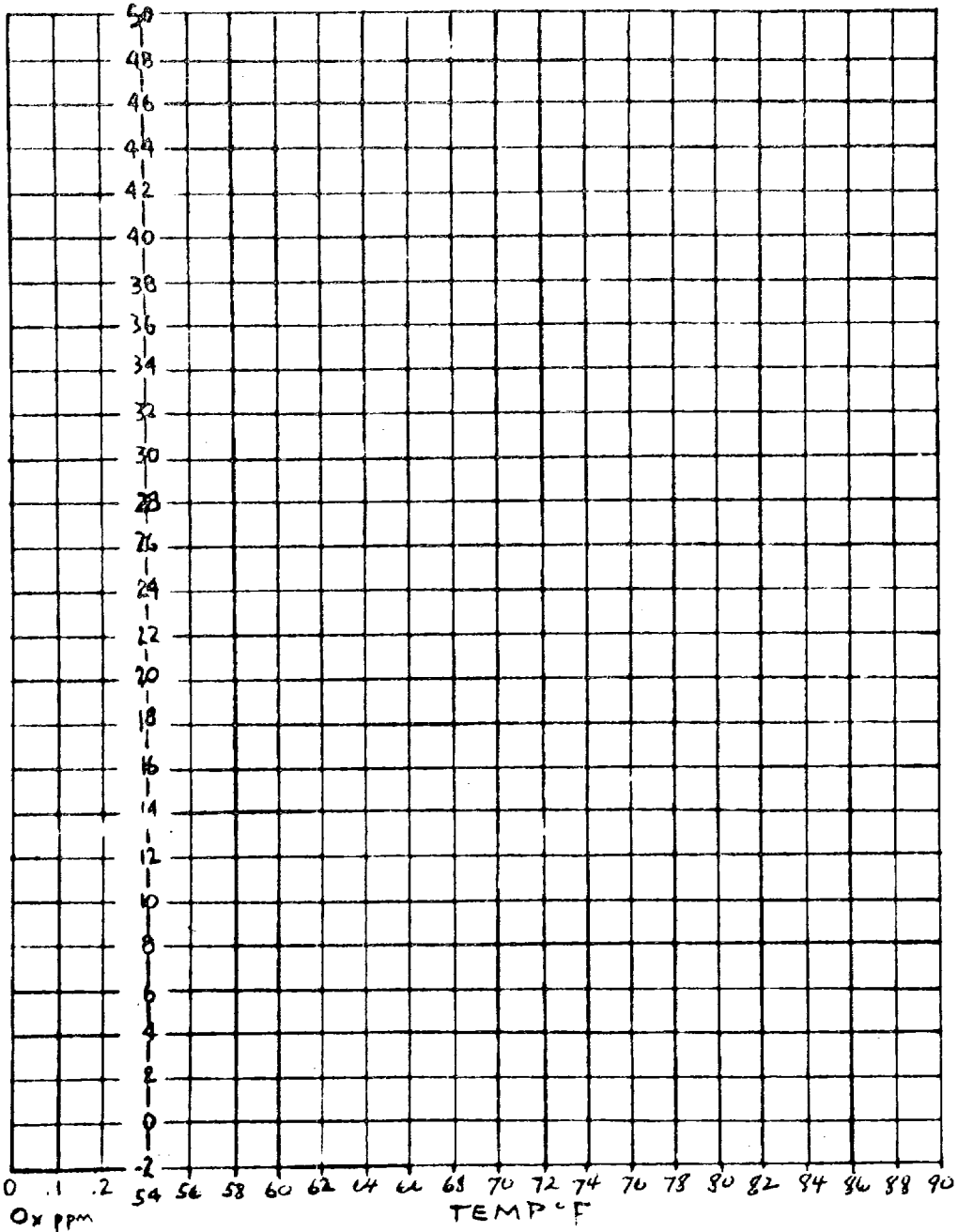
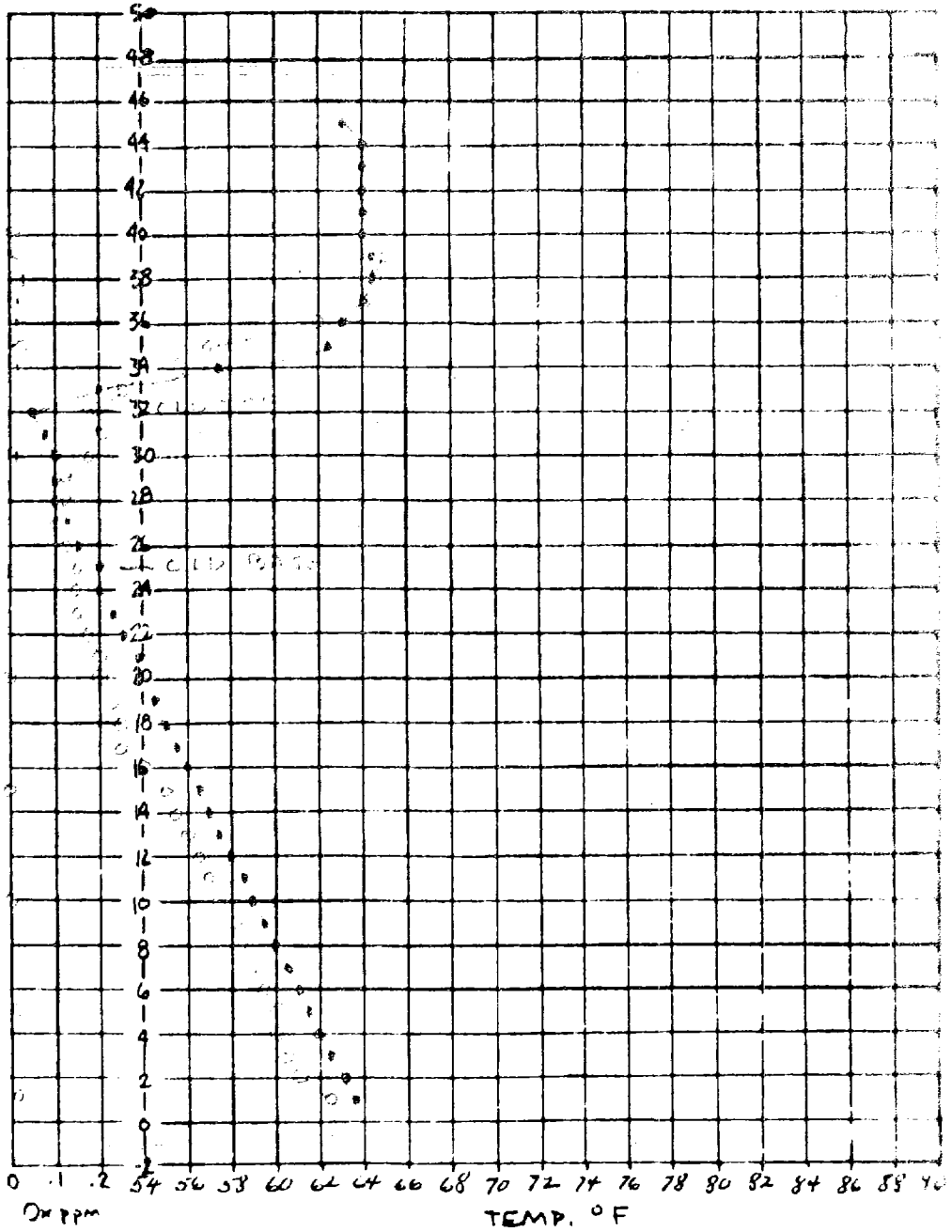


STATION _____ TIME _____ DATE 6/3/75

ALT. 100'S OF FEET



STATION SMO TIME _____

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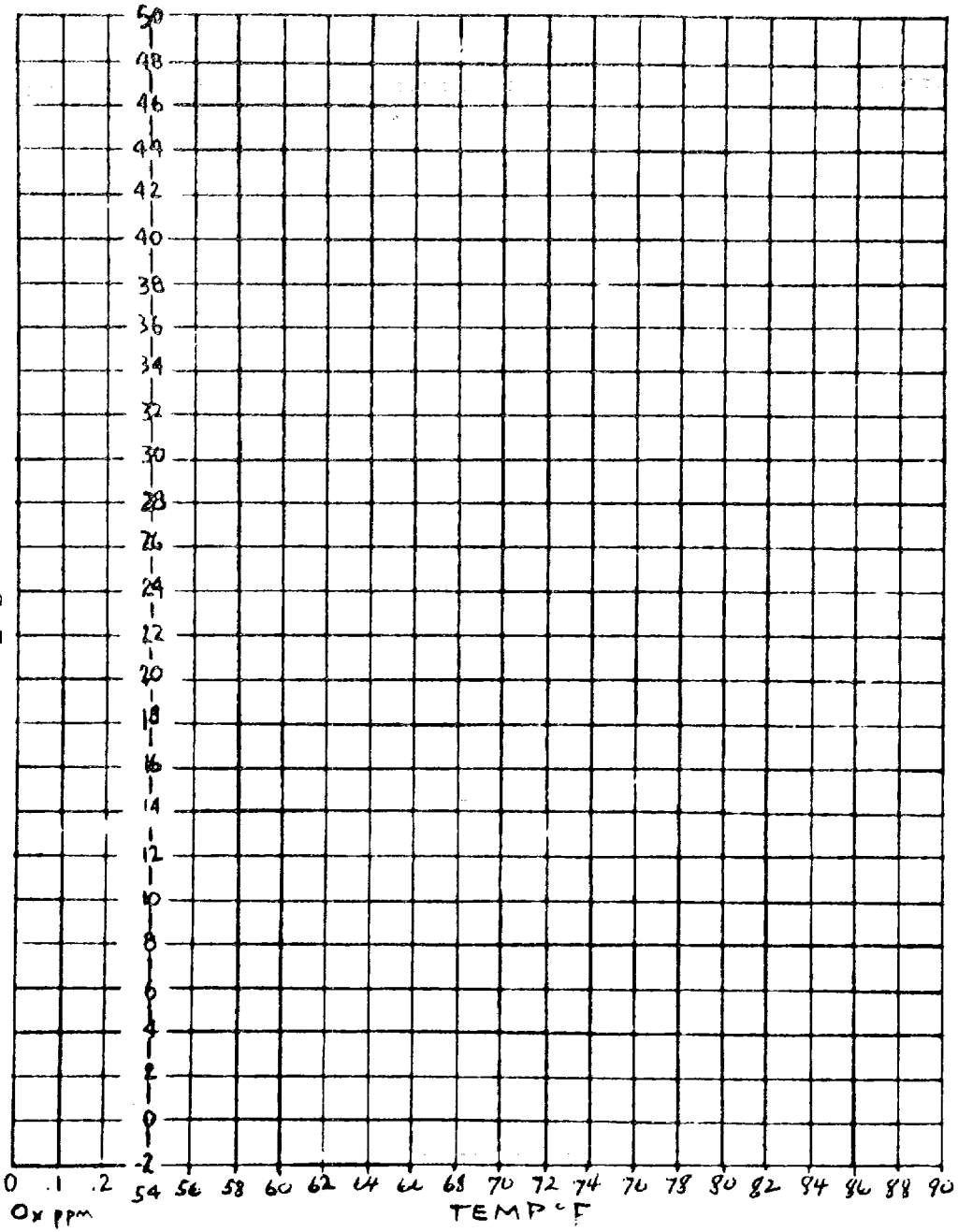

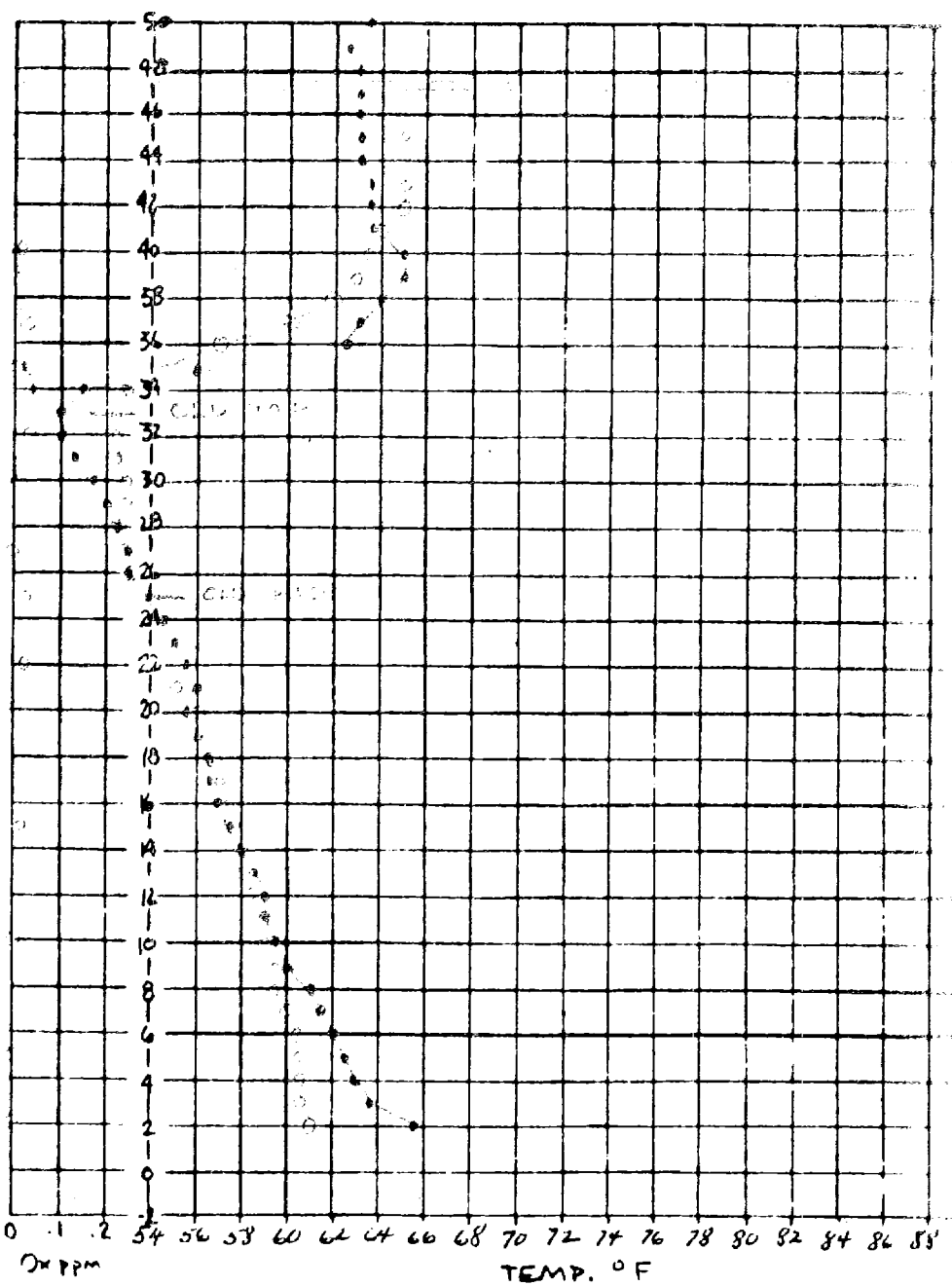

STATION _____ TIME _____ DATE 6/3/75

STATION SMO TIME _____

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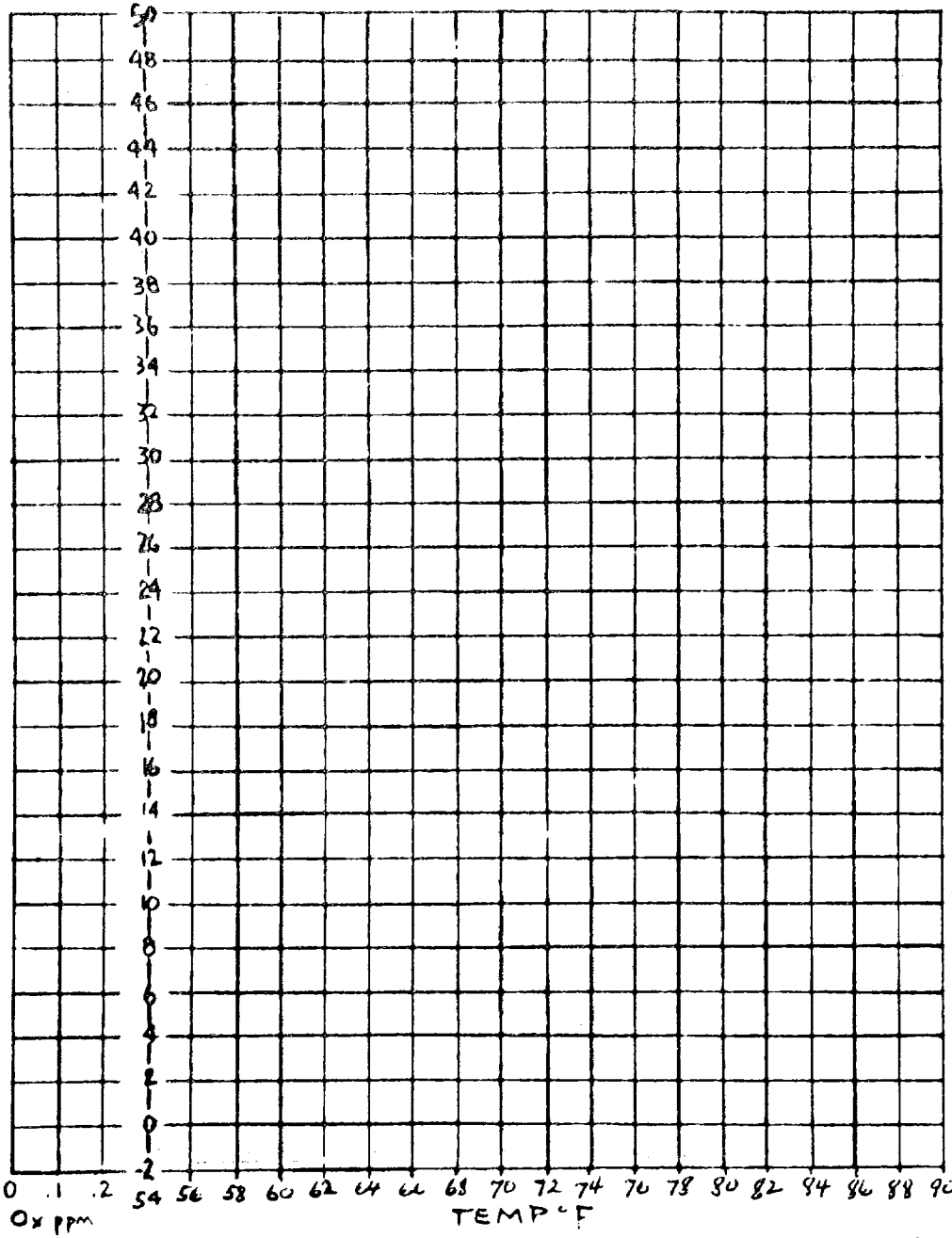
o down 1339

ALT. 100's OF FEET



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STATION _____ TIME _____ DATE 6/3/75

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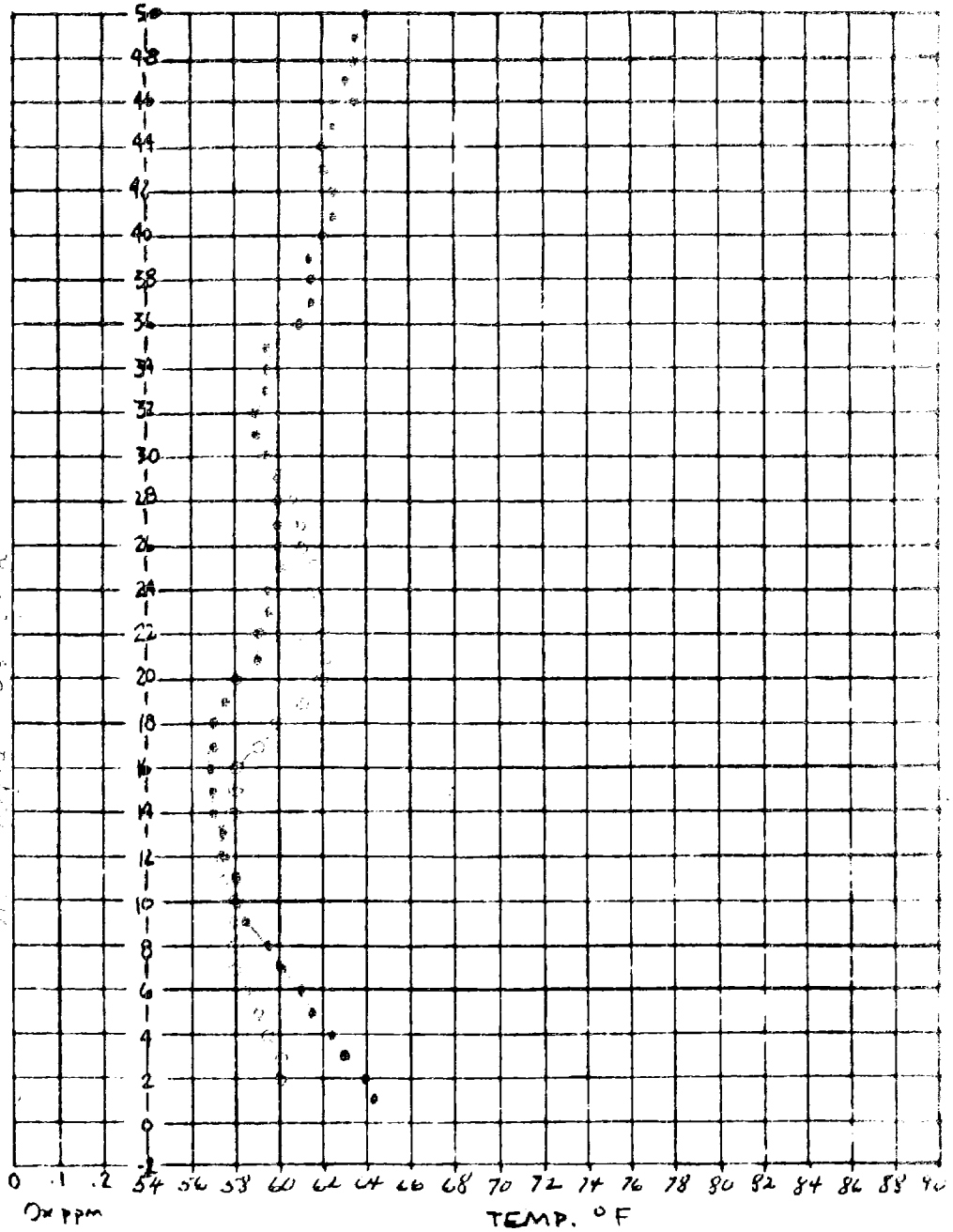

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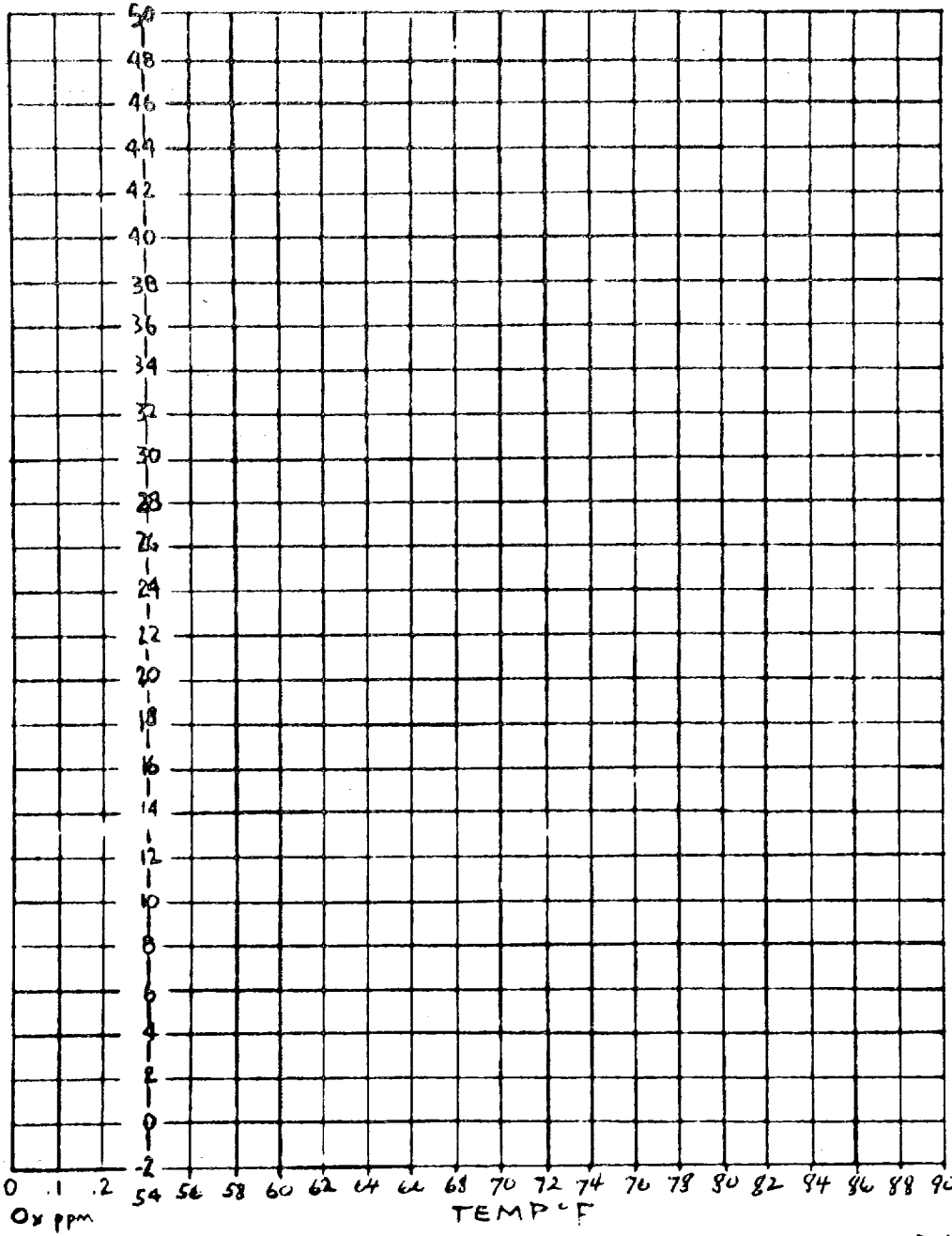
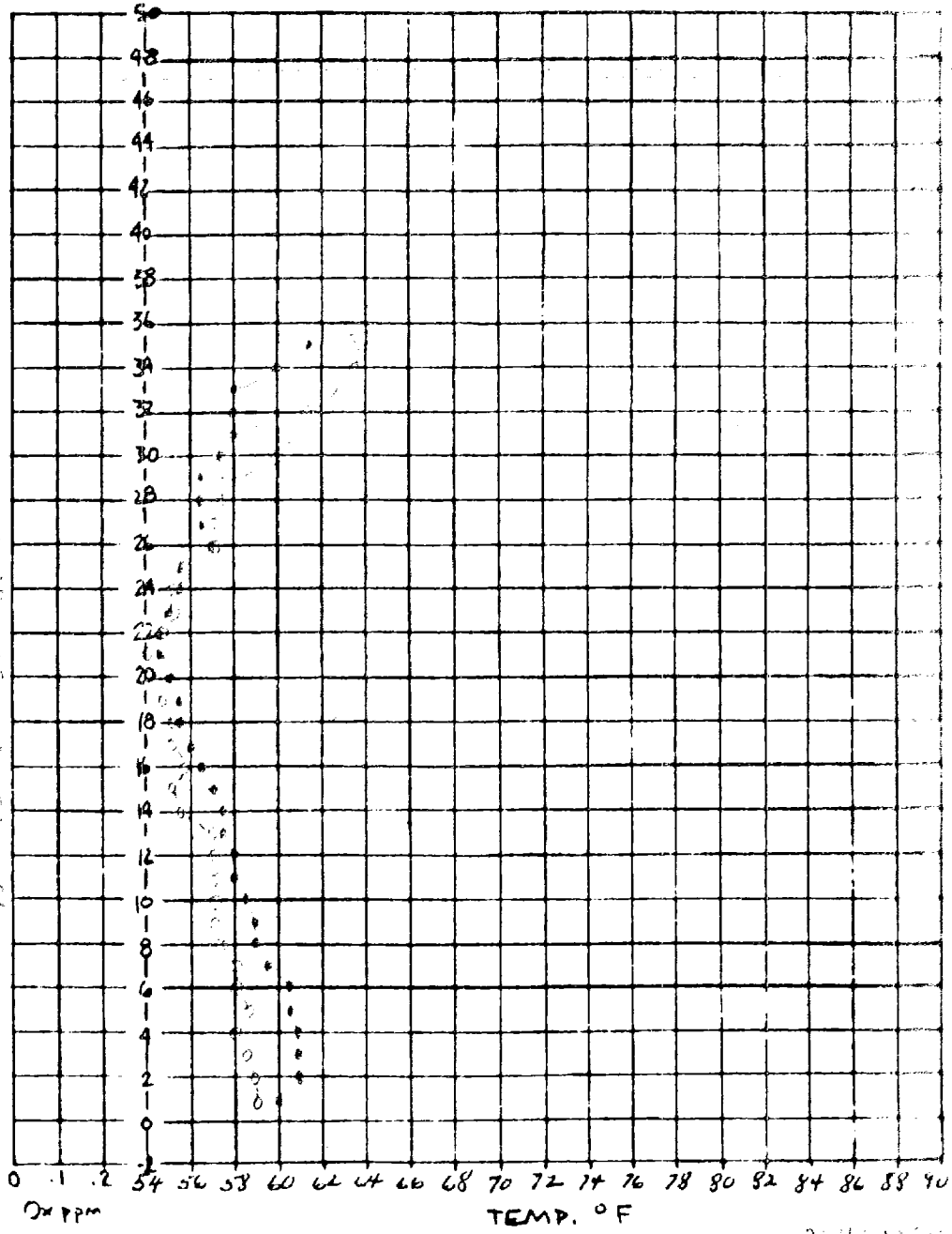
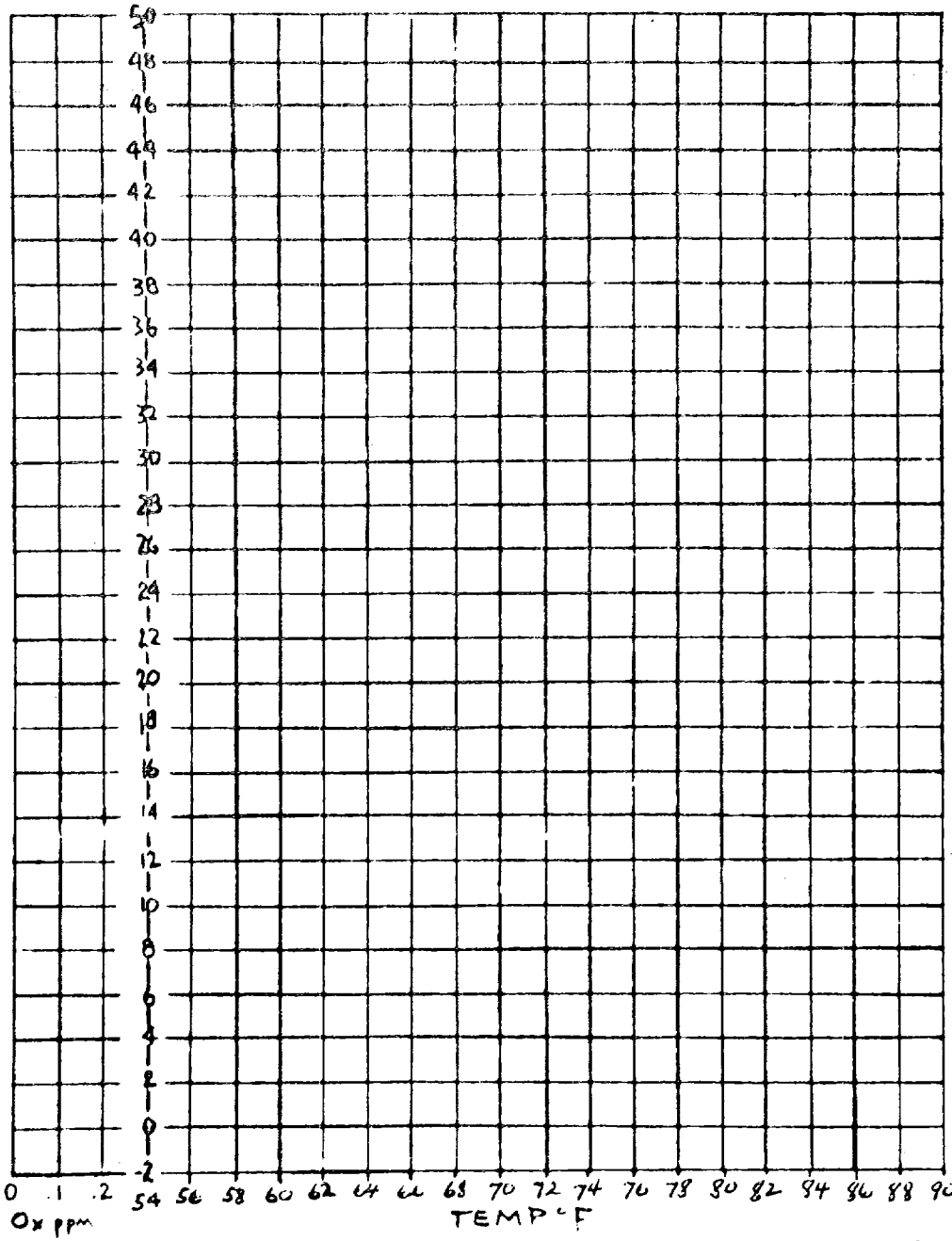


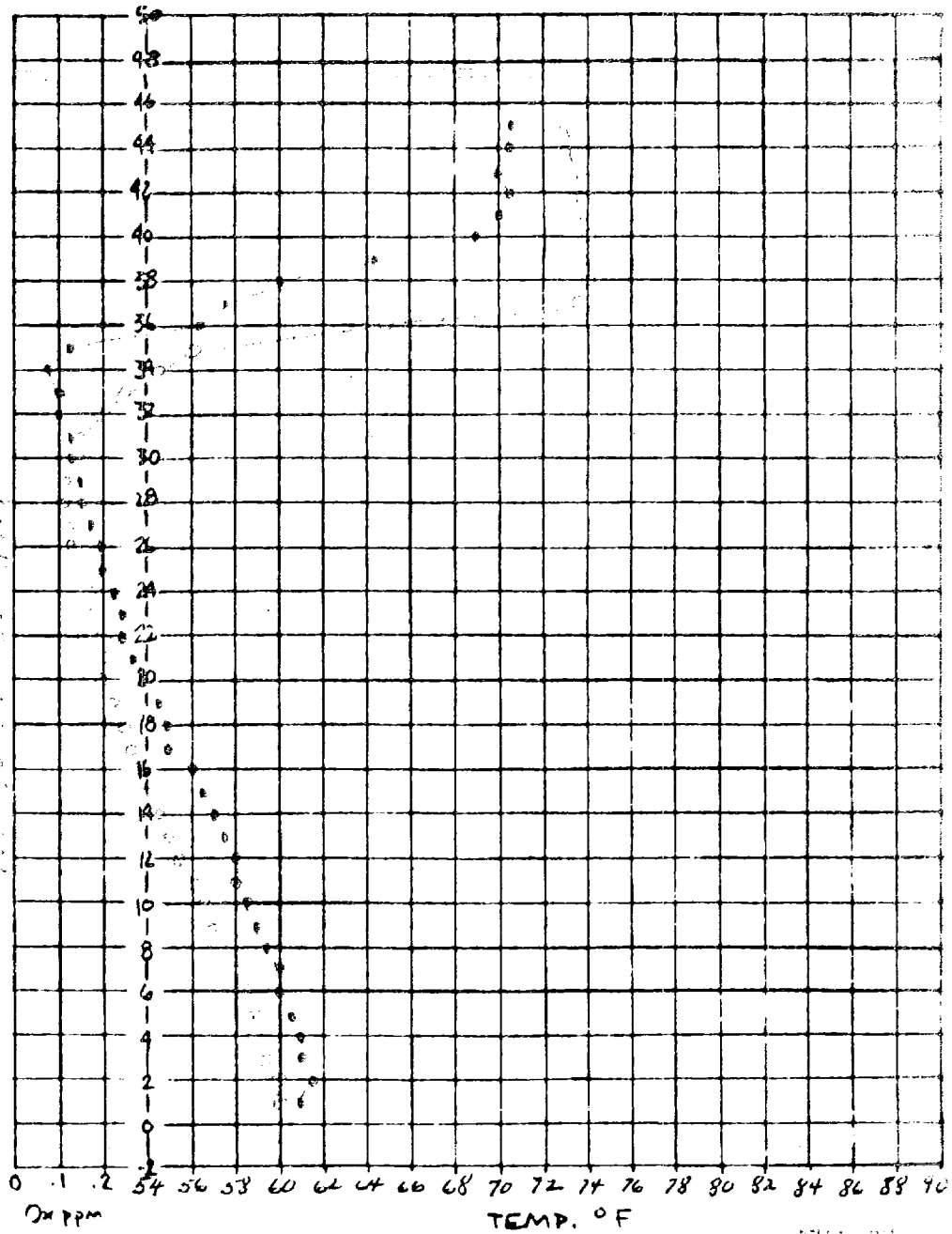
STATION _____ TIME _____ DATE 6/3/82

ALT. 100'S OF FEET



STATION SMO TIME _____





DATE 6/4/75

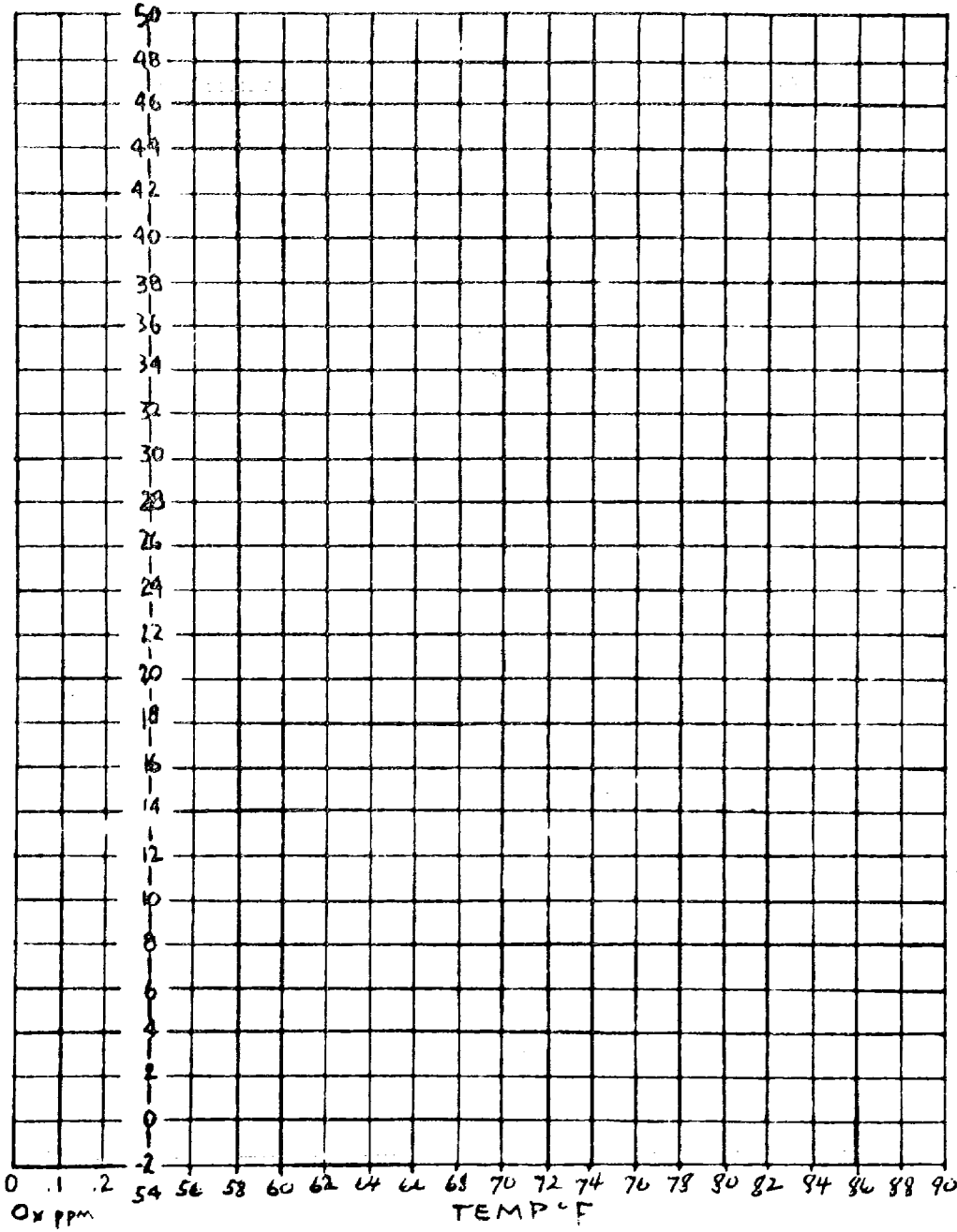
STATION _____ TIME _____

STATION SMO TIME _____

+ up

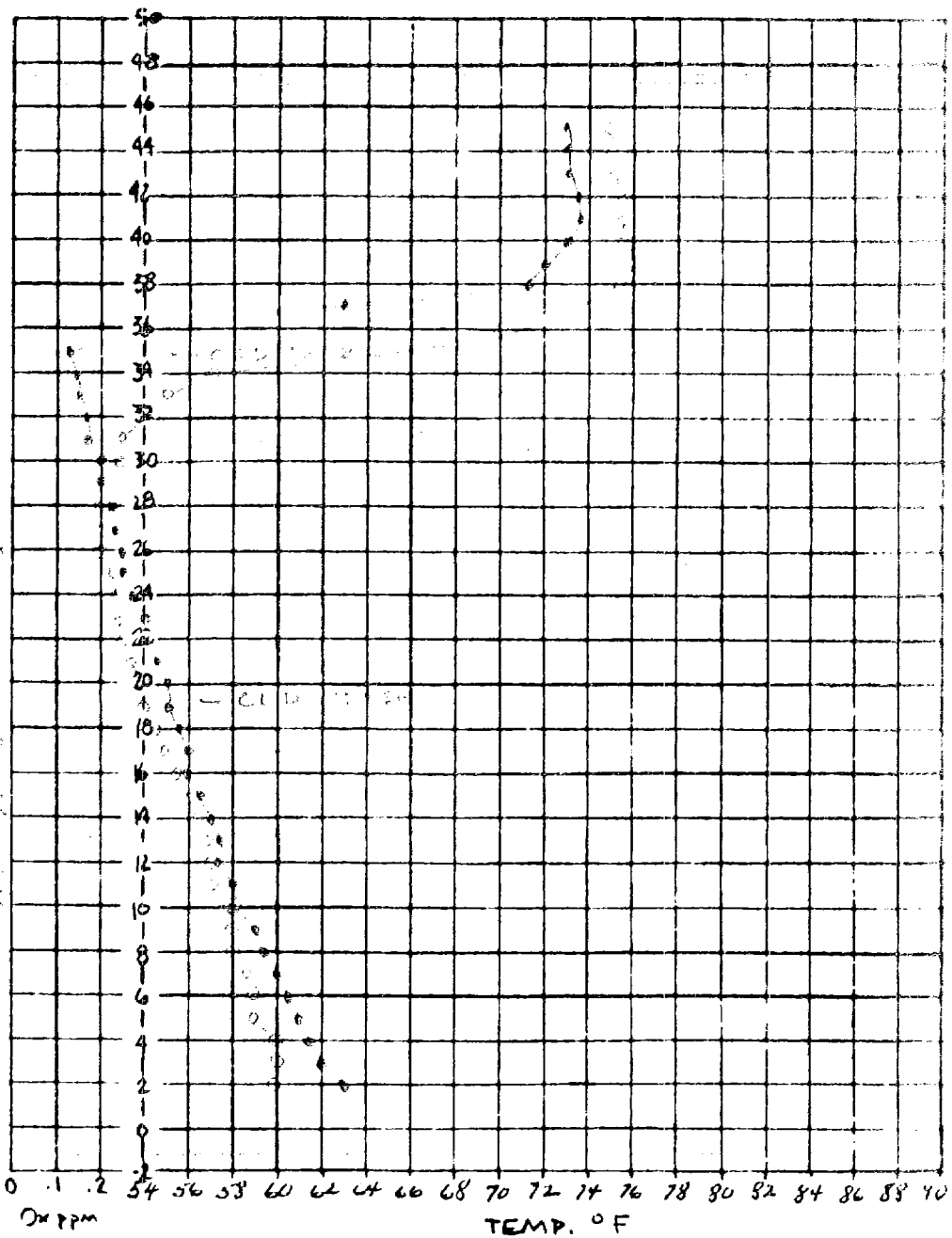
C-10

ALT. 100'S OF FEET

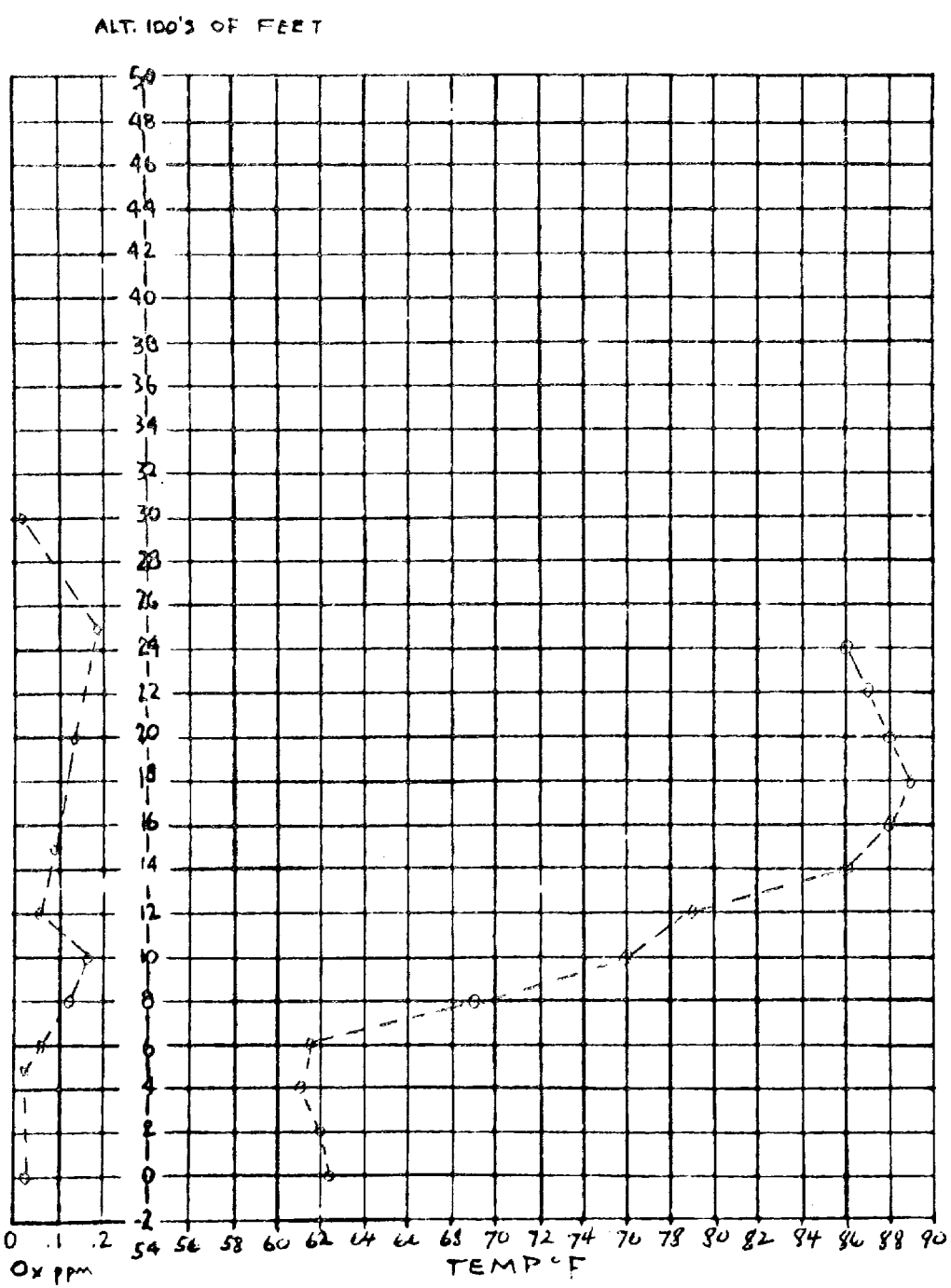


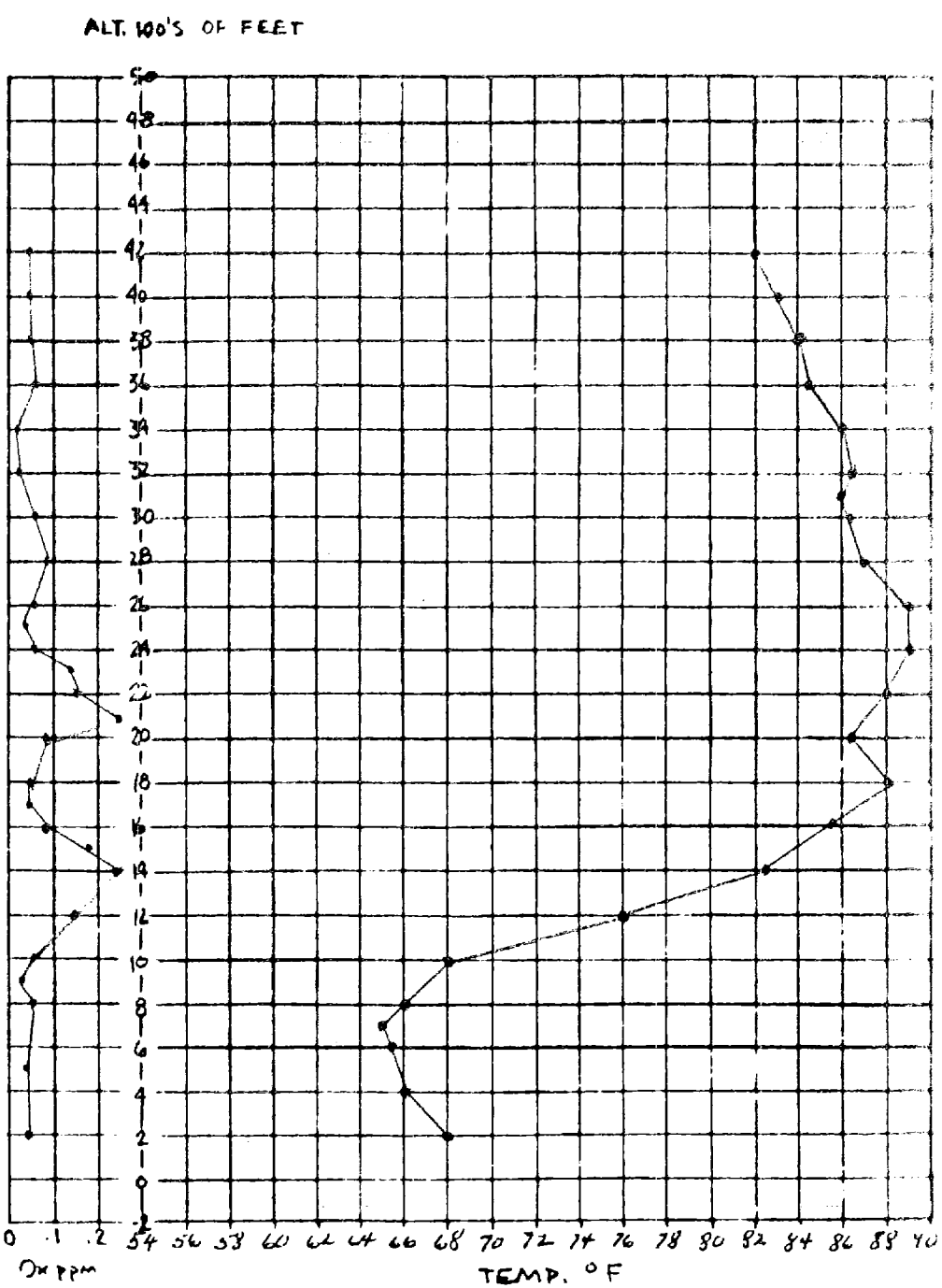
STATION _____ TIME _____ DATE 6/4/75

ALT. 100'S OF FEET



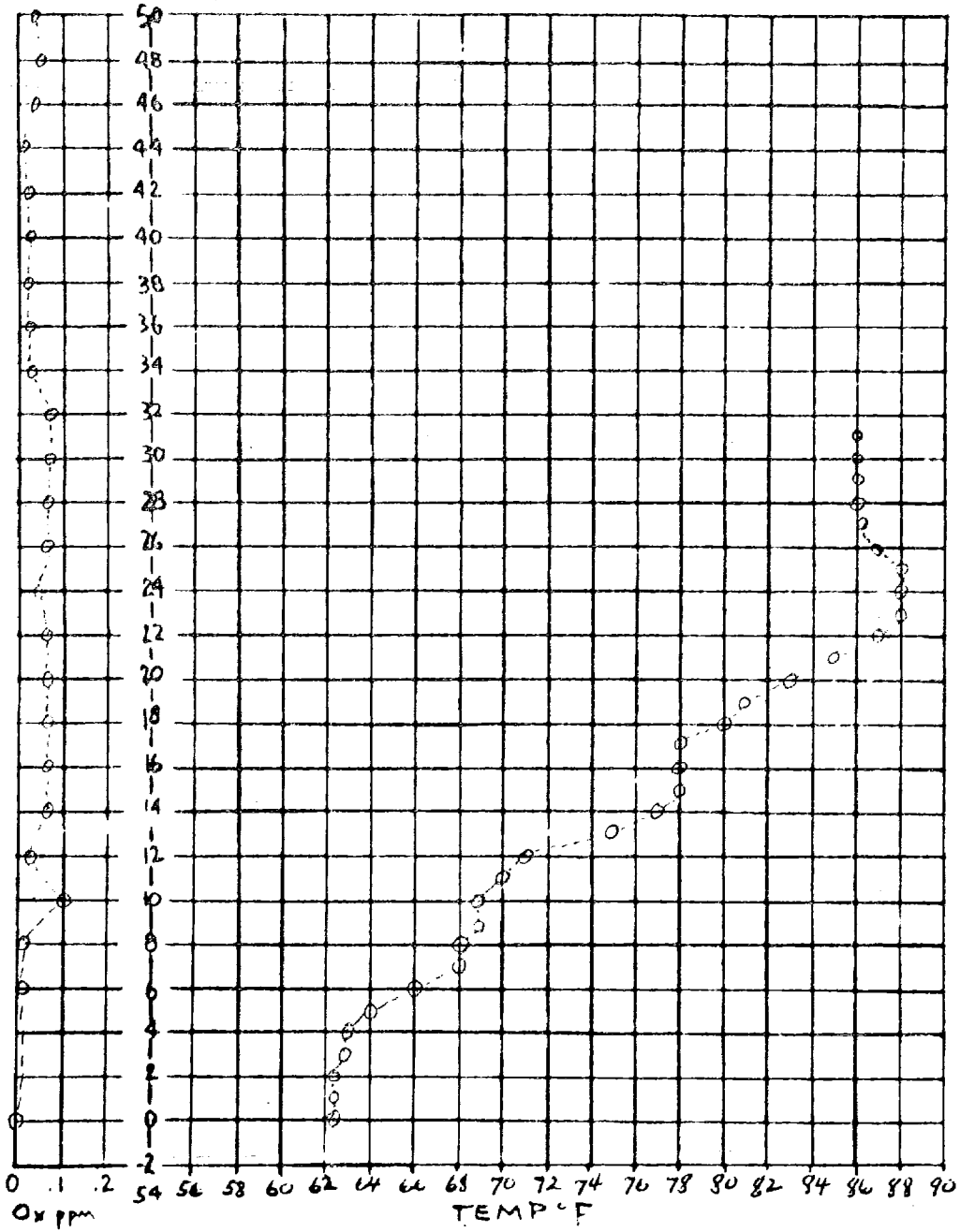
STATION SMO TIME

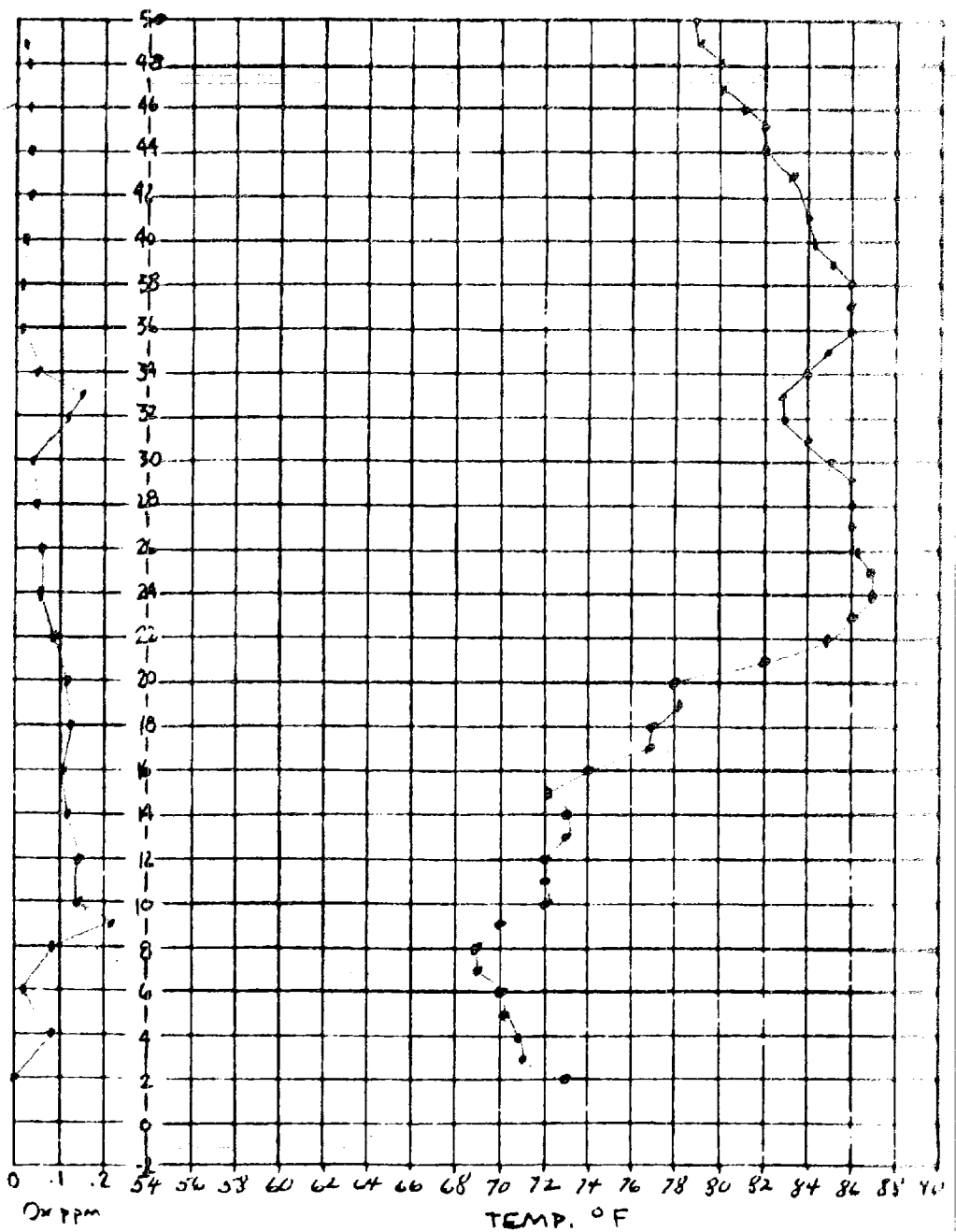




STATION OXR o down 1941-1946 TIME PDT DATE 7/9/75

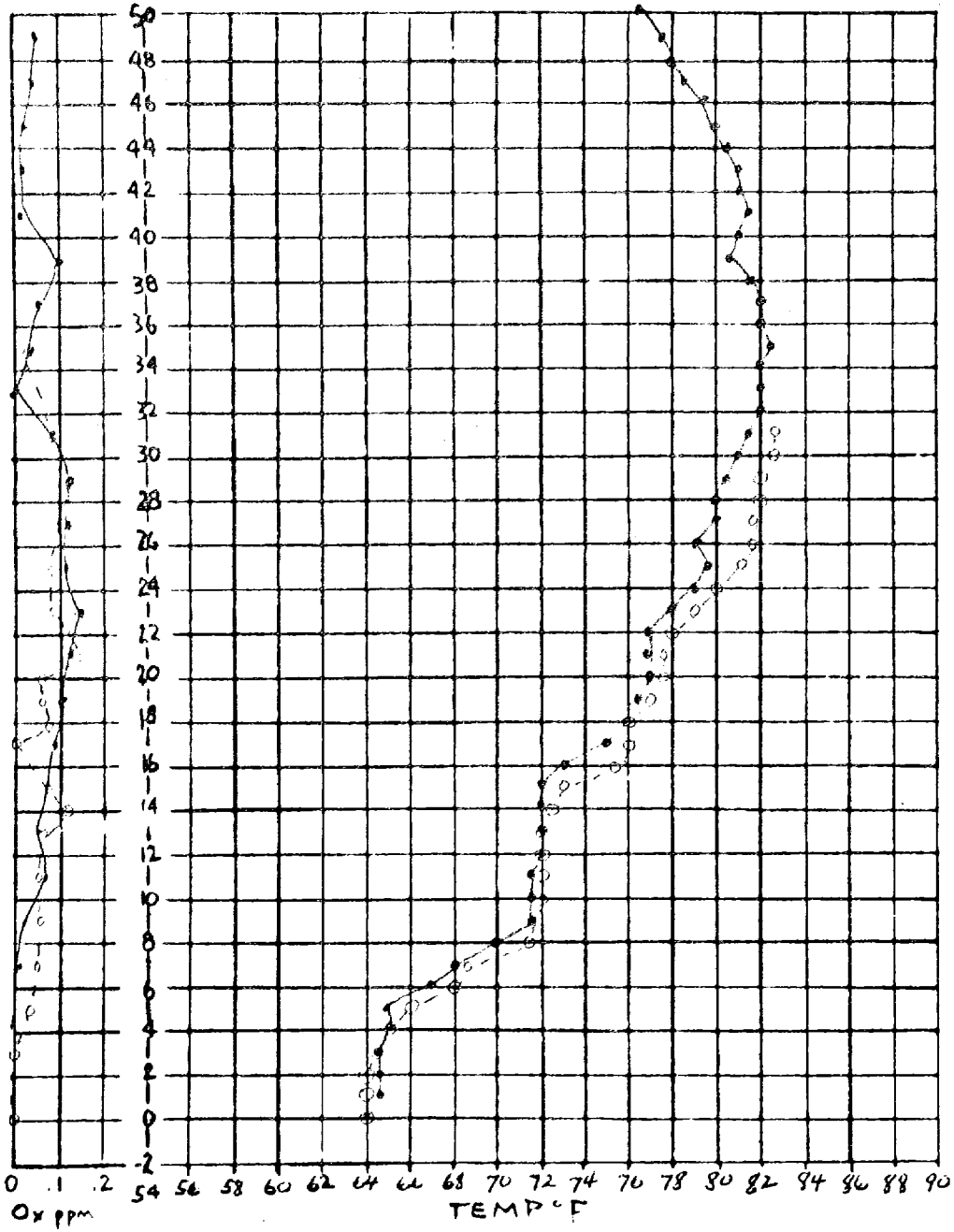
STATION SMO • up 1914-1925 TIME PDT

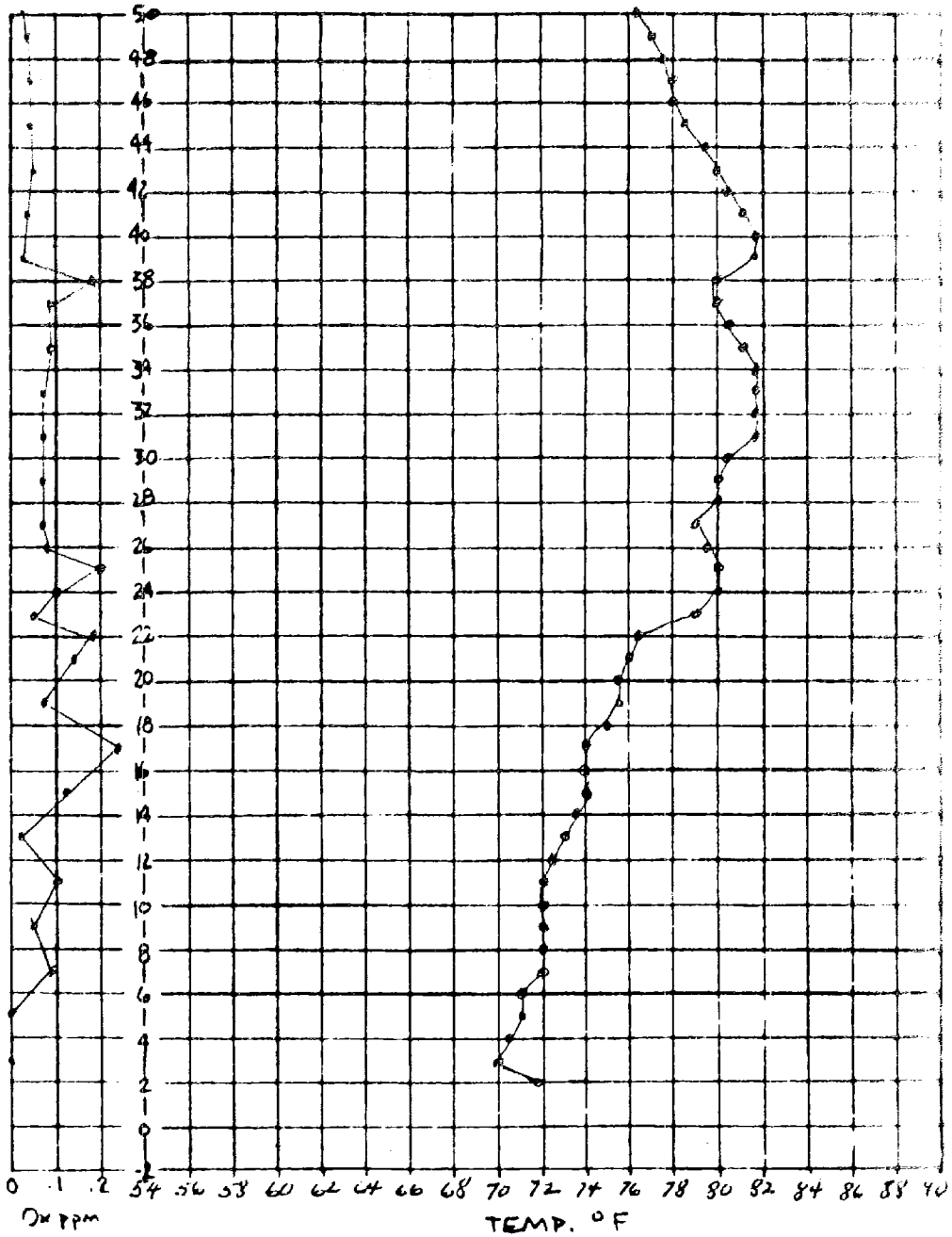




STATION OXR TIME PDT o down 2333-2353 DATE 7/9/75

STATION SMO TIME PDT • up 2320-[illegible]





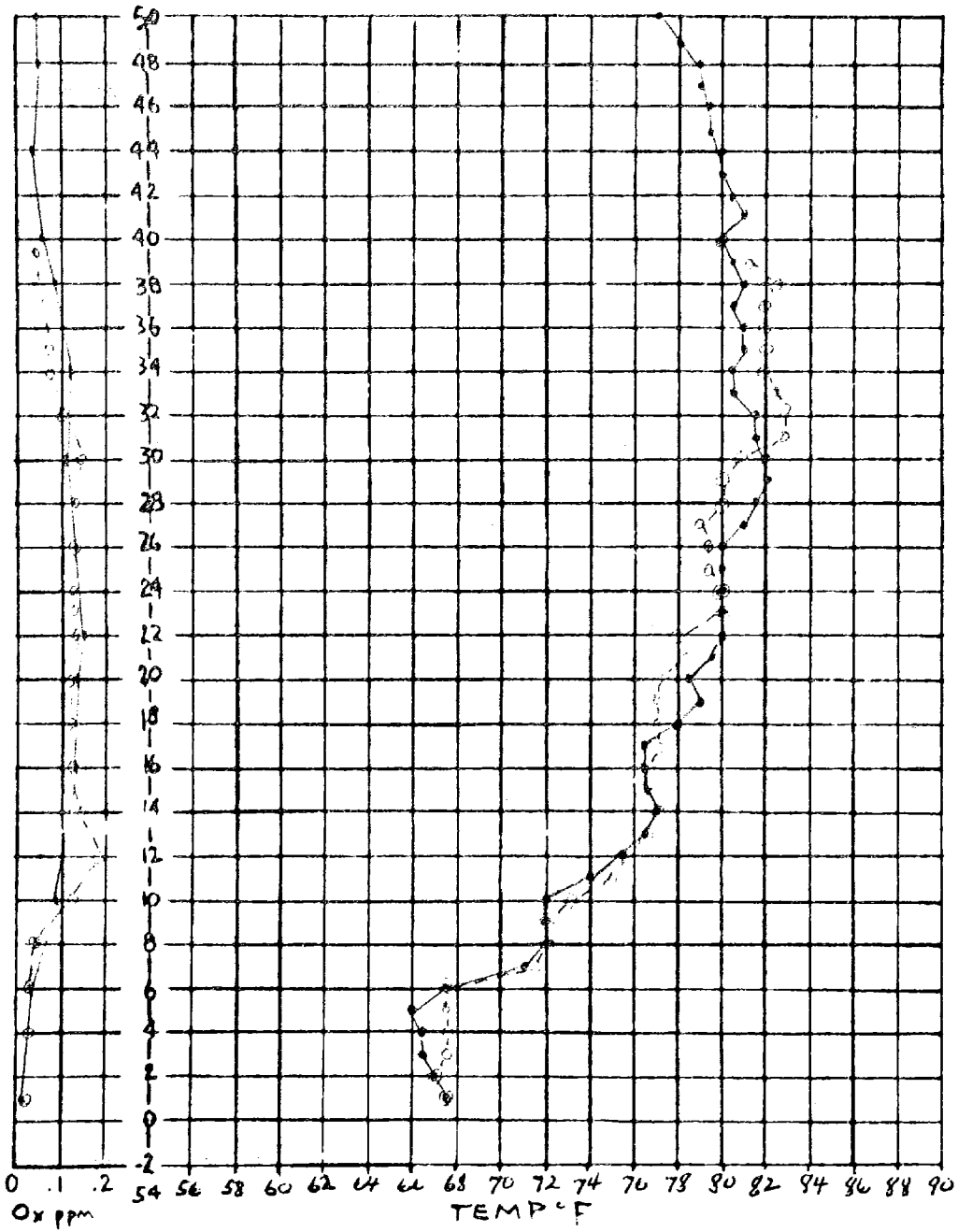
STATION OXR TIME PDT DATE 7/10/75

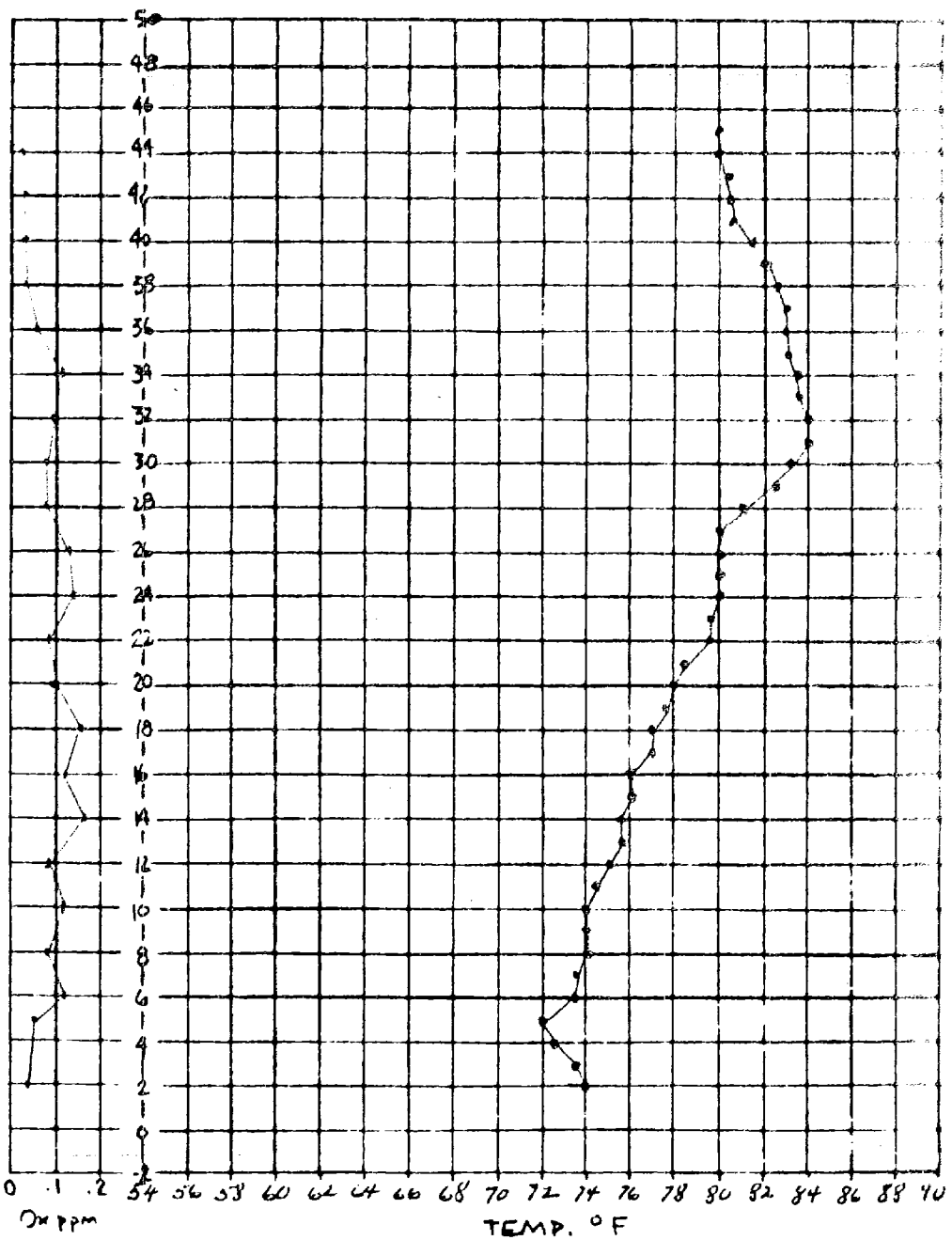
o down 0652-0657

• up 0657-0707

STATION SMO TIME PDT

• up 0630-0641





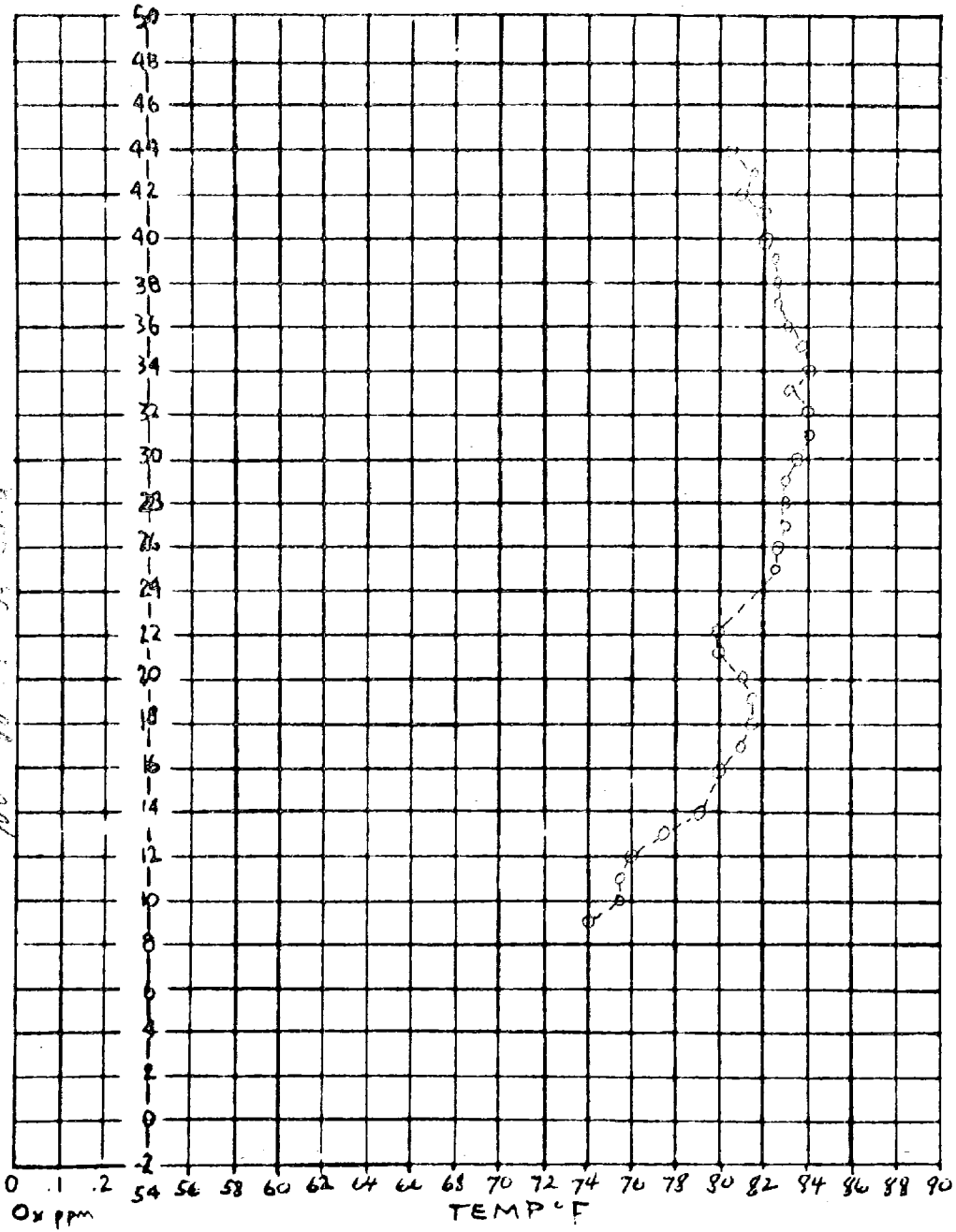
C-15

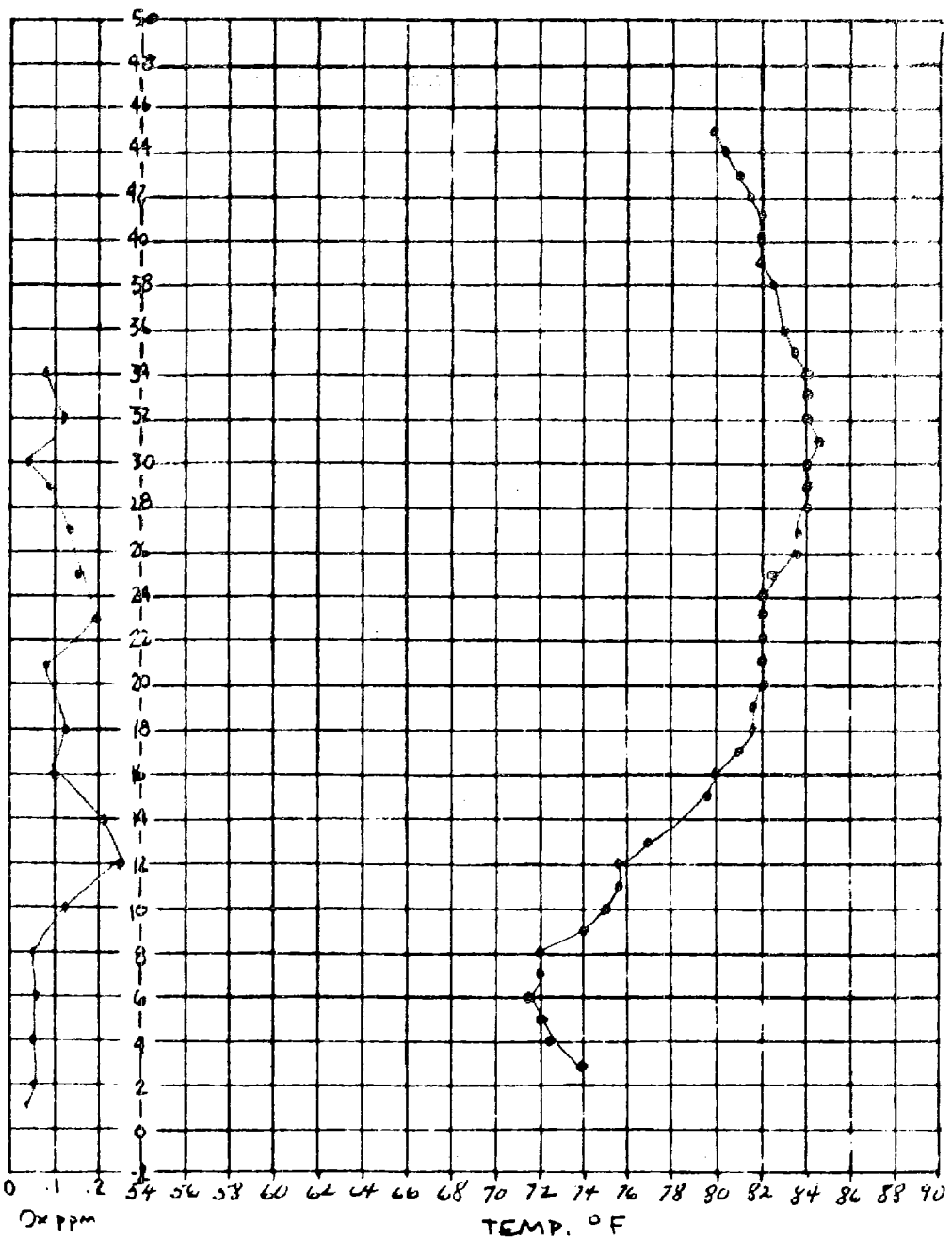
STATION OXR TIME PDT DATE 7/10/75

• up 1006-1018
0 down 0951-1006

STATION SMO TIME PDT

• up 0937-0947





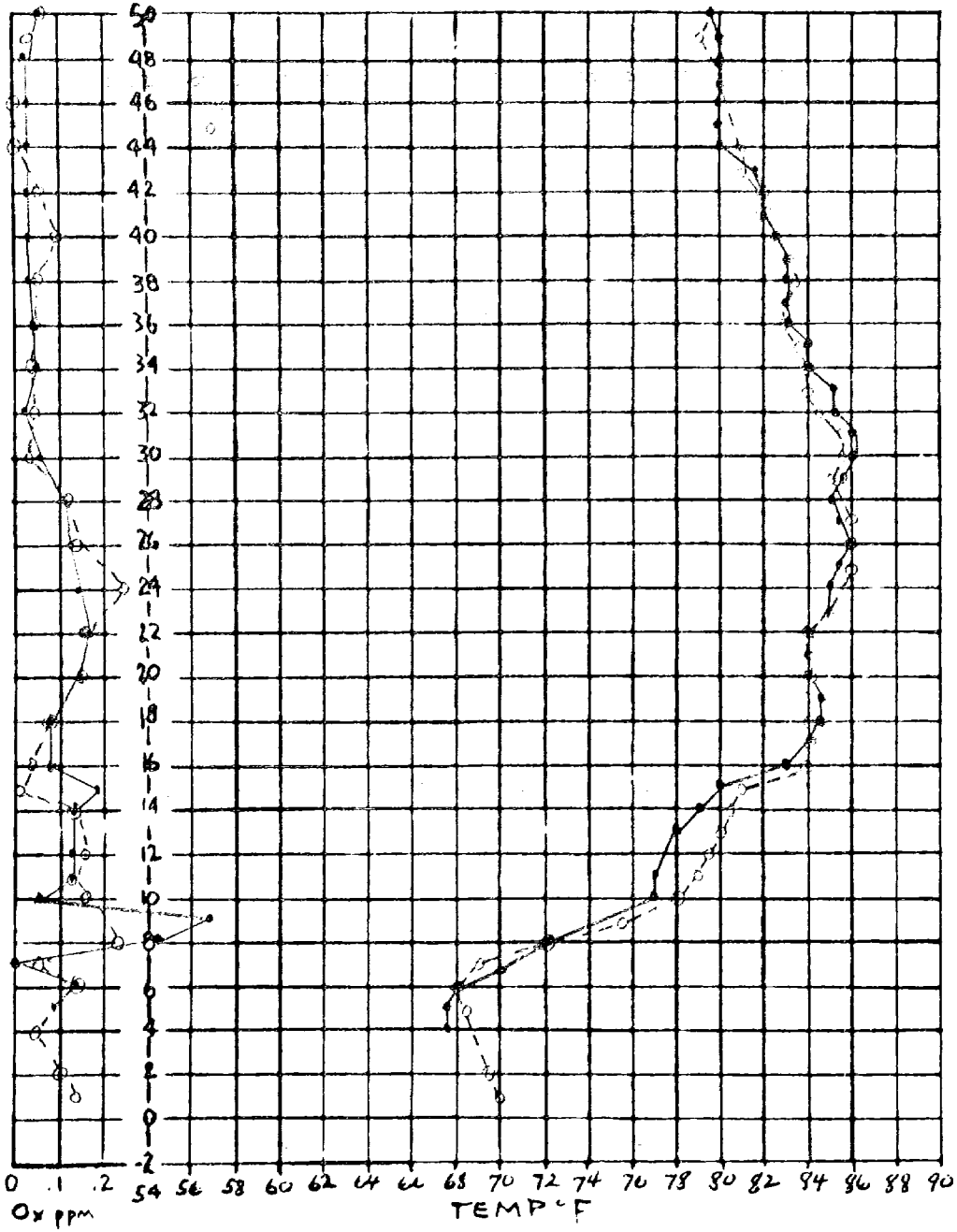
C-16

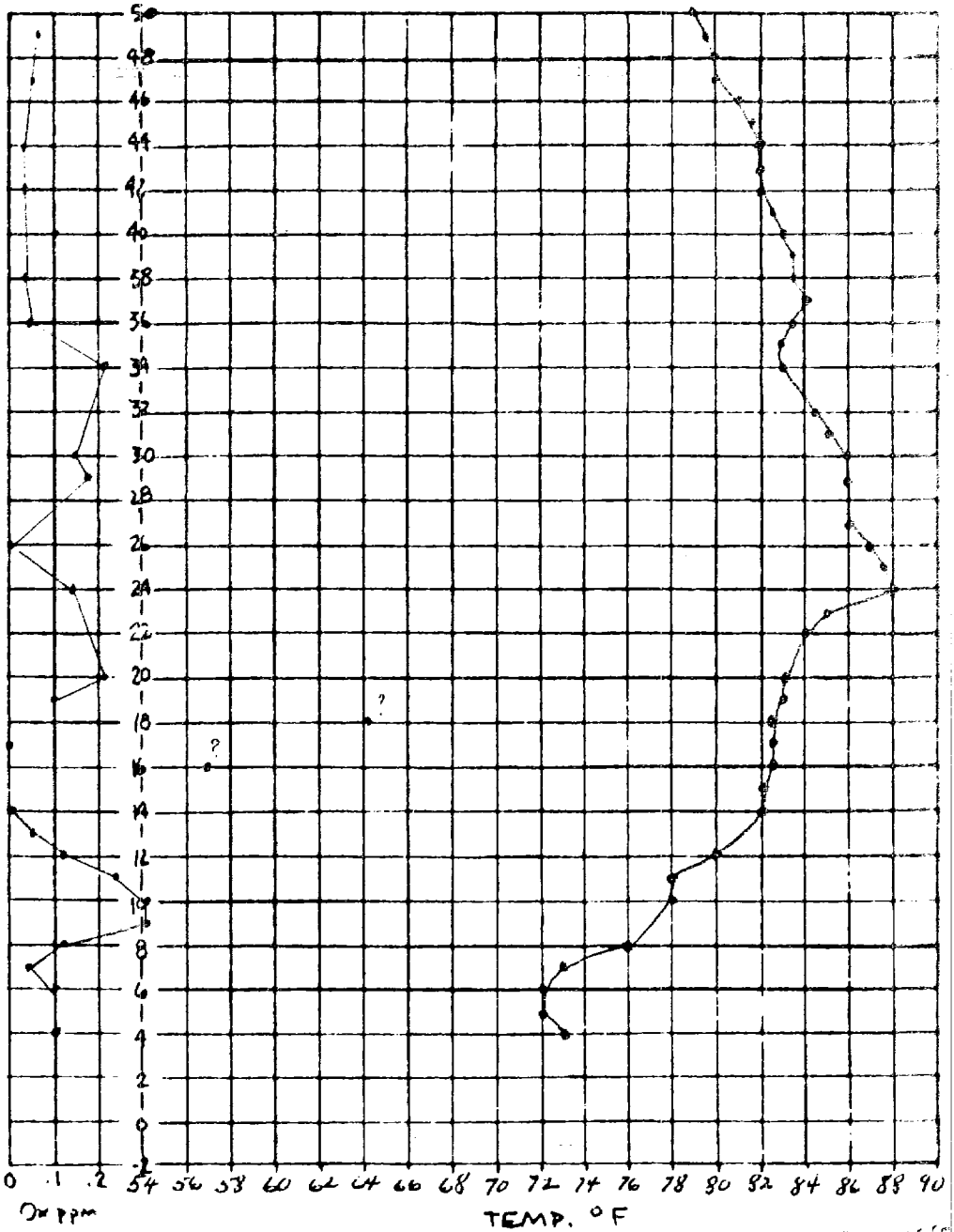
o down 1237

STATION OXR TIME PDT DATE 7/10/75

• up 1226

STATION SMO TIME PDT

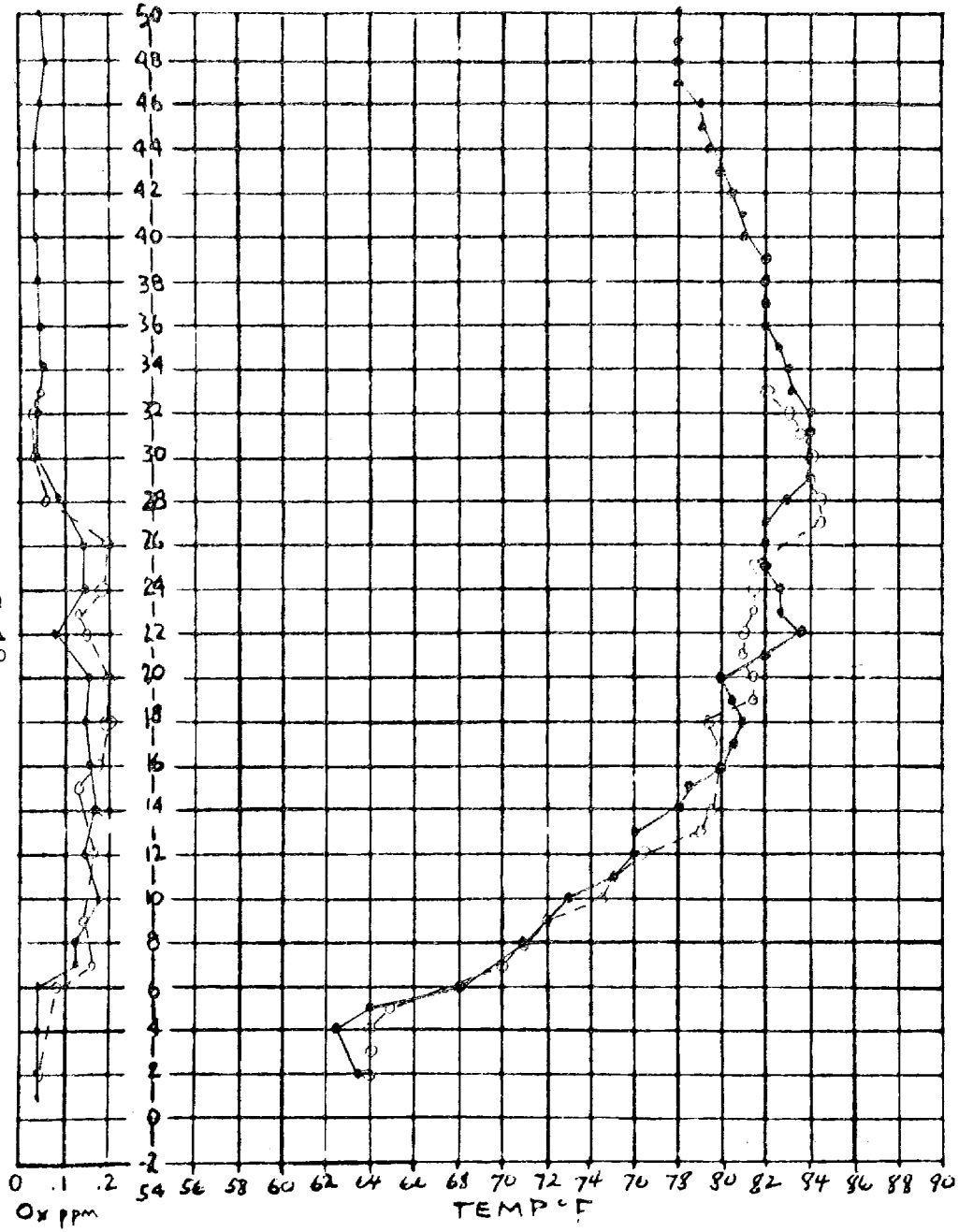


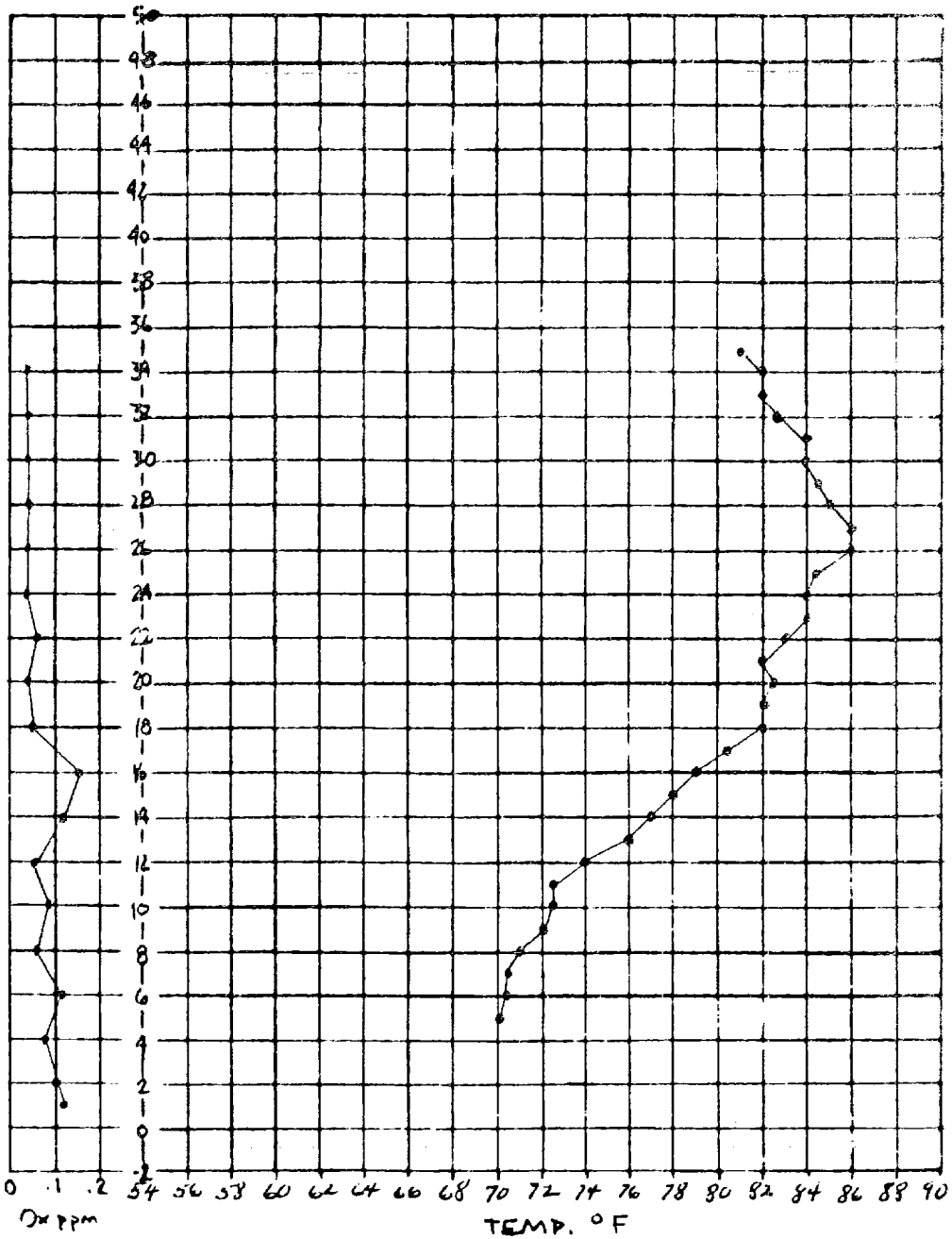


• up 1614-1626
• down 1600-1614

STATION OXR TIME PDT DATE 7/10/75

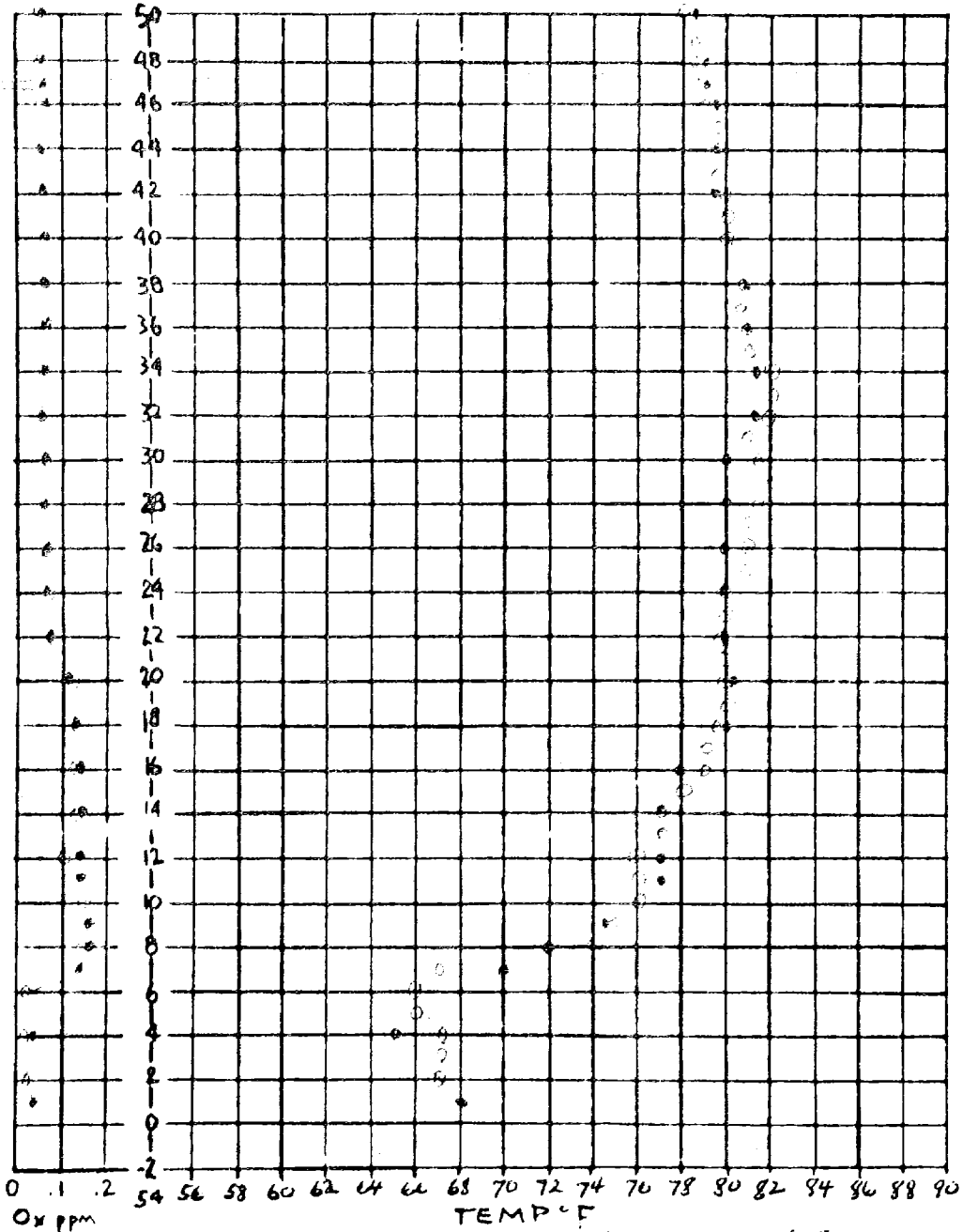
STATION SMO TIME PDT • up 1543-1557

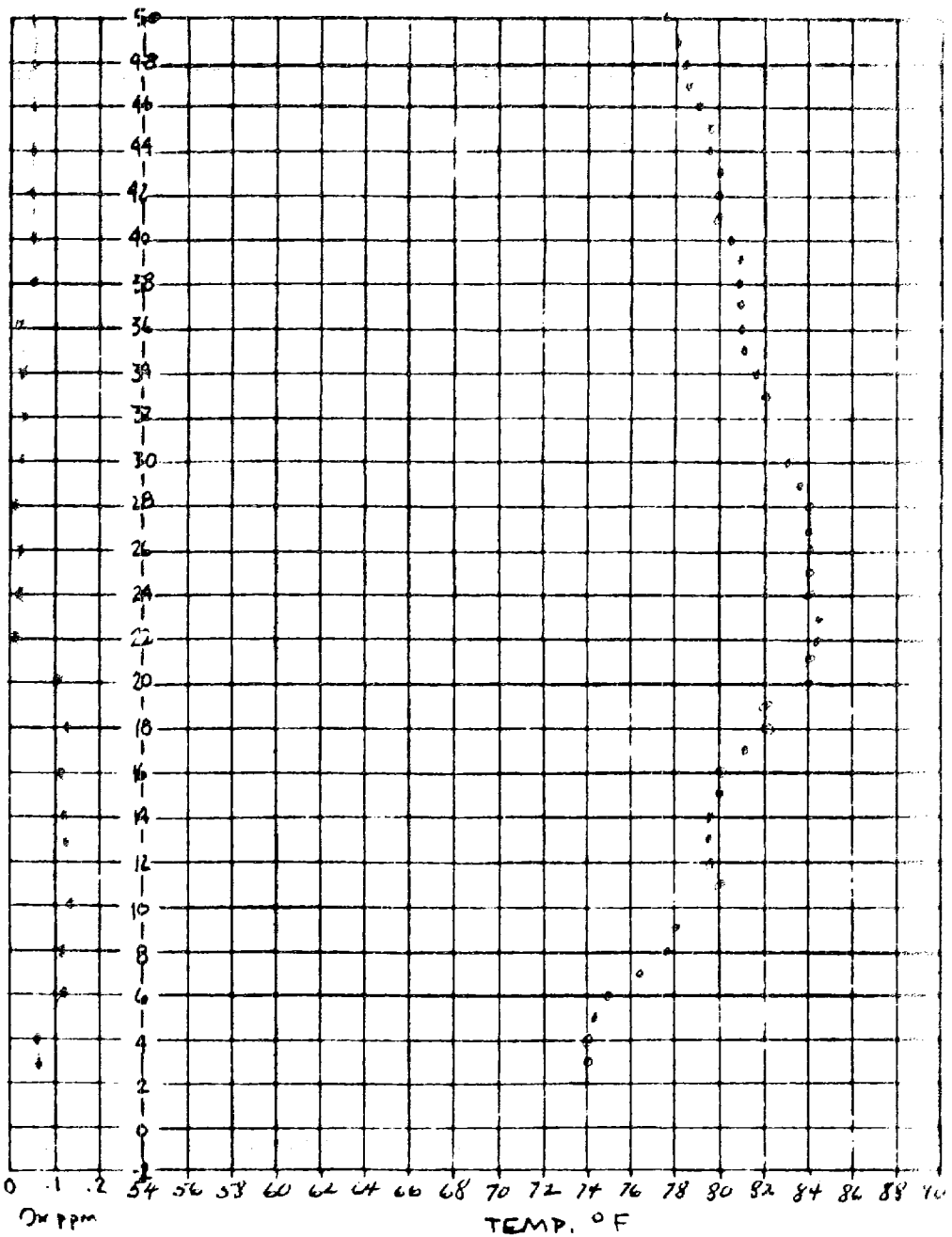




STATION OXR TIME PLT • up 1903-1917 o down 1845-1903 DATE 7/10/75

STATION SMO TIME PDT • up 1832-1840





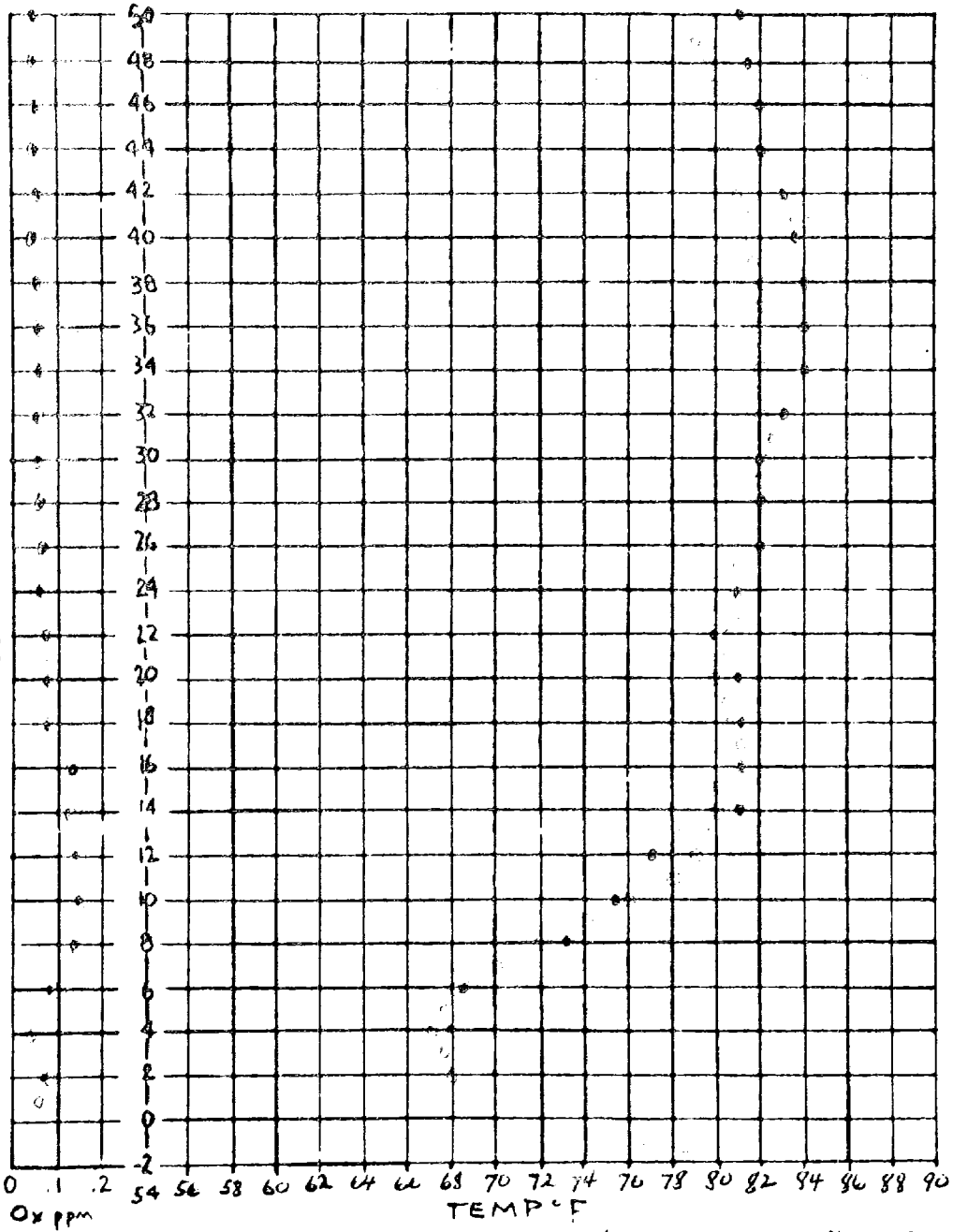
o down 0939 - 0958
• up 0958 - 1010

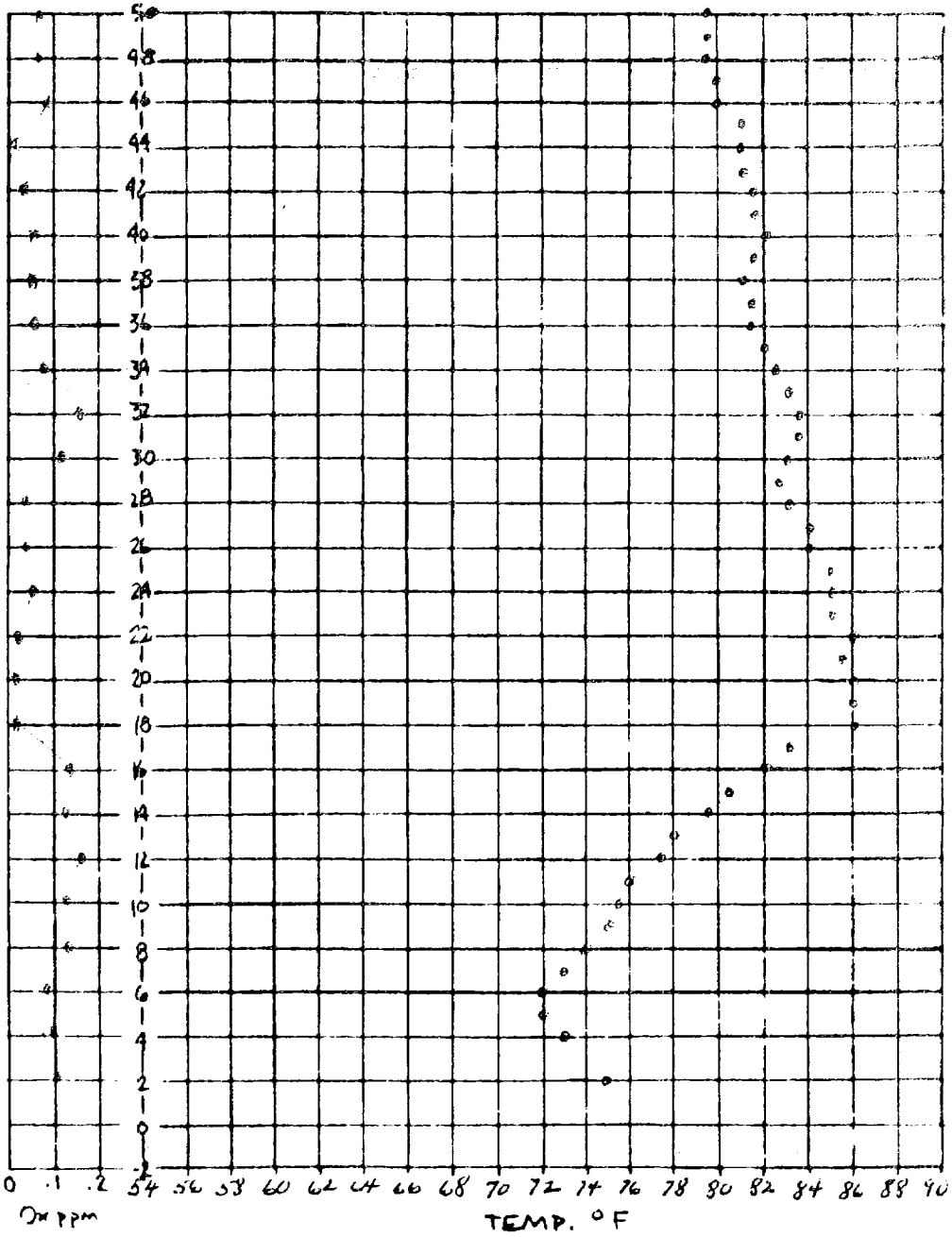
STATION OXR TIME PDT

DATE 7/11/78

• up 0936

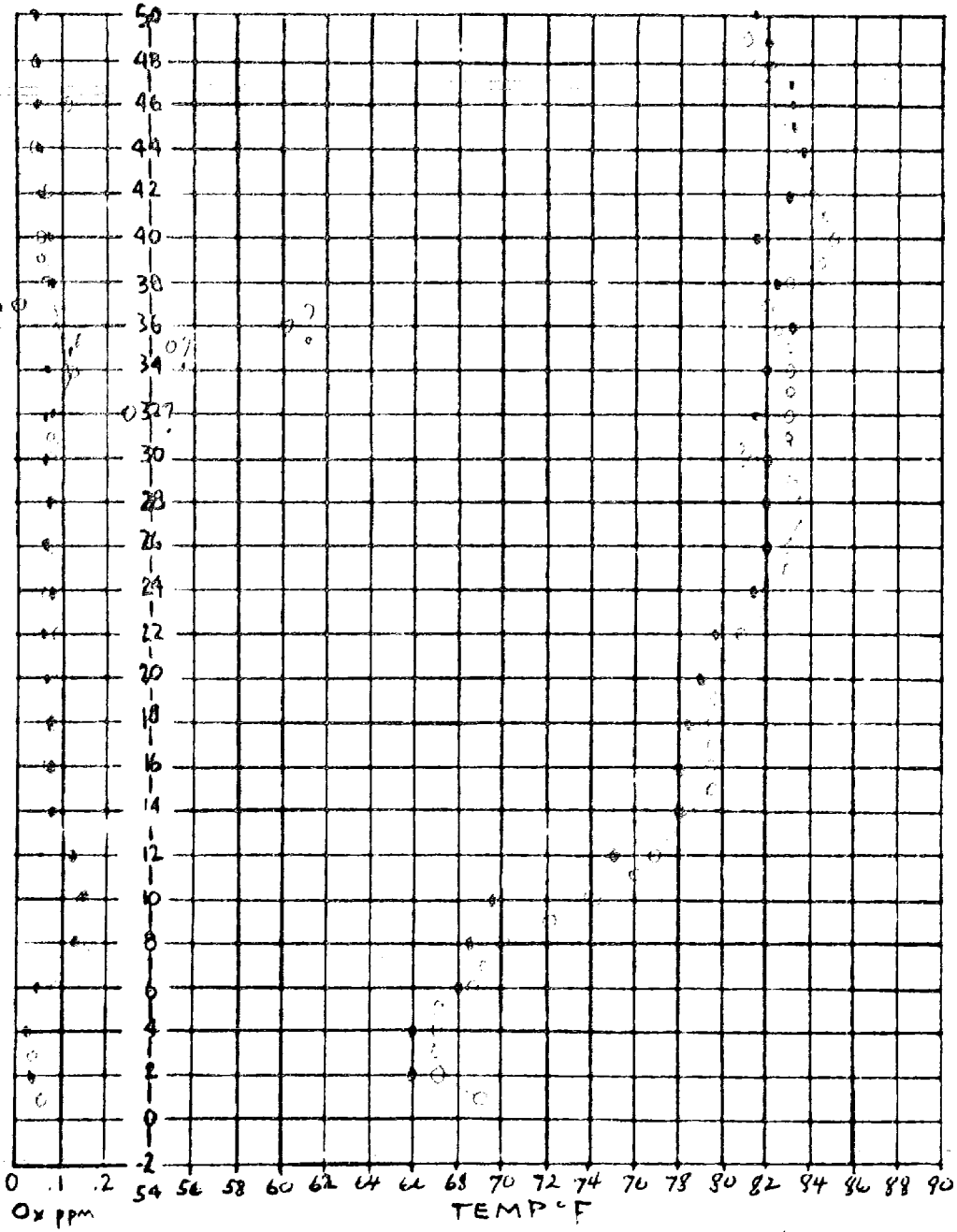
STATION SMO TIME PDT

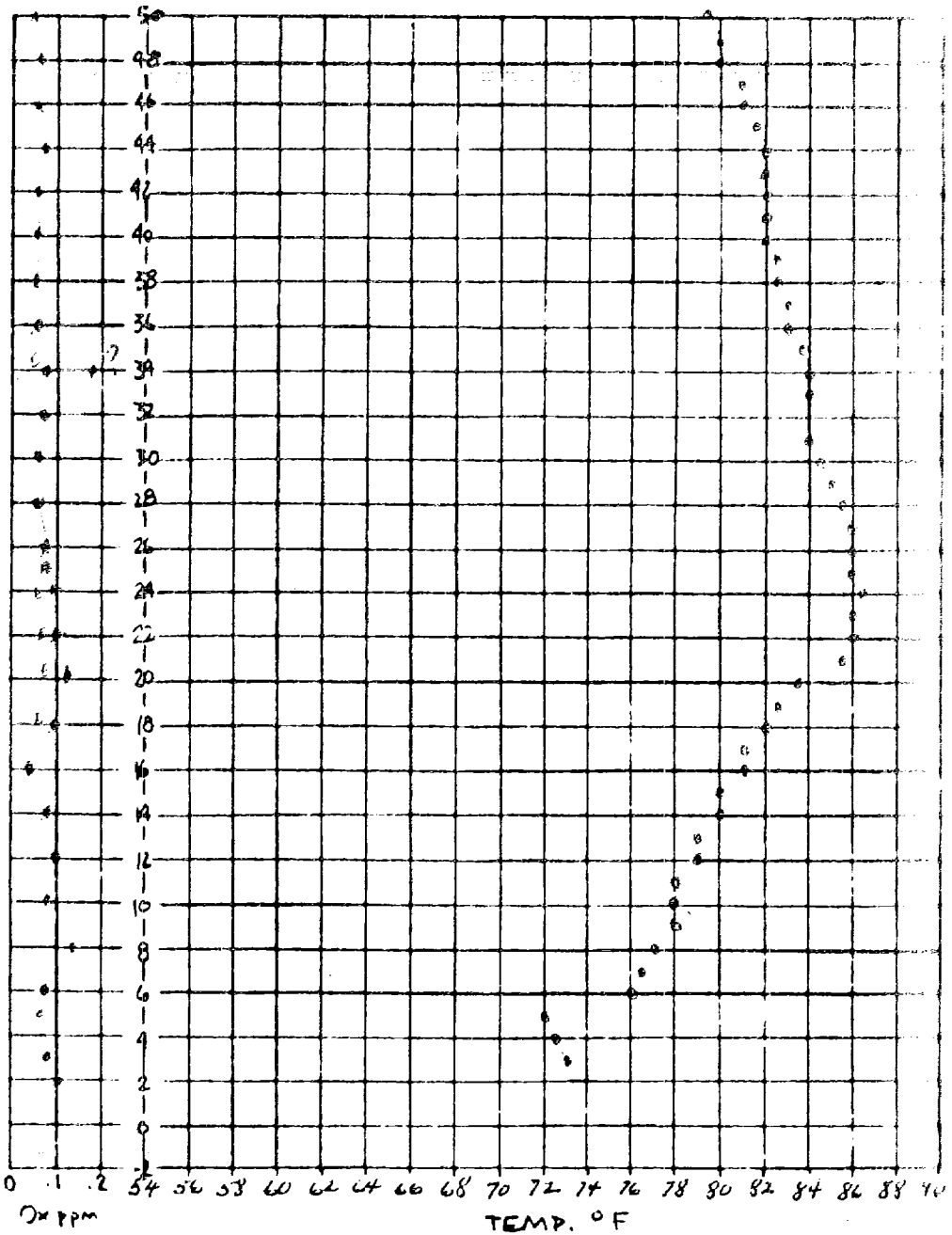




STATION OXQ TIME o down 1229-1248 • up 1248-1300 PDT DATE 7/11/75

STATION SMO TIME • up 1215 [illegible] PDT





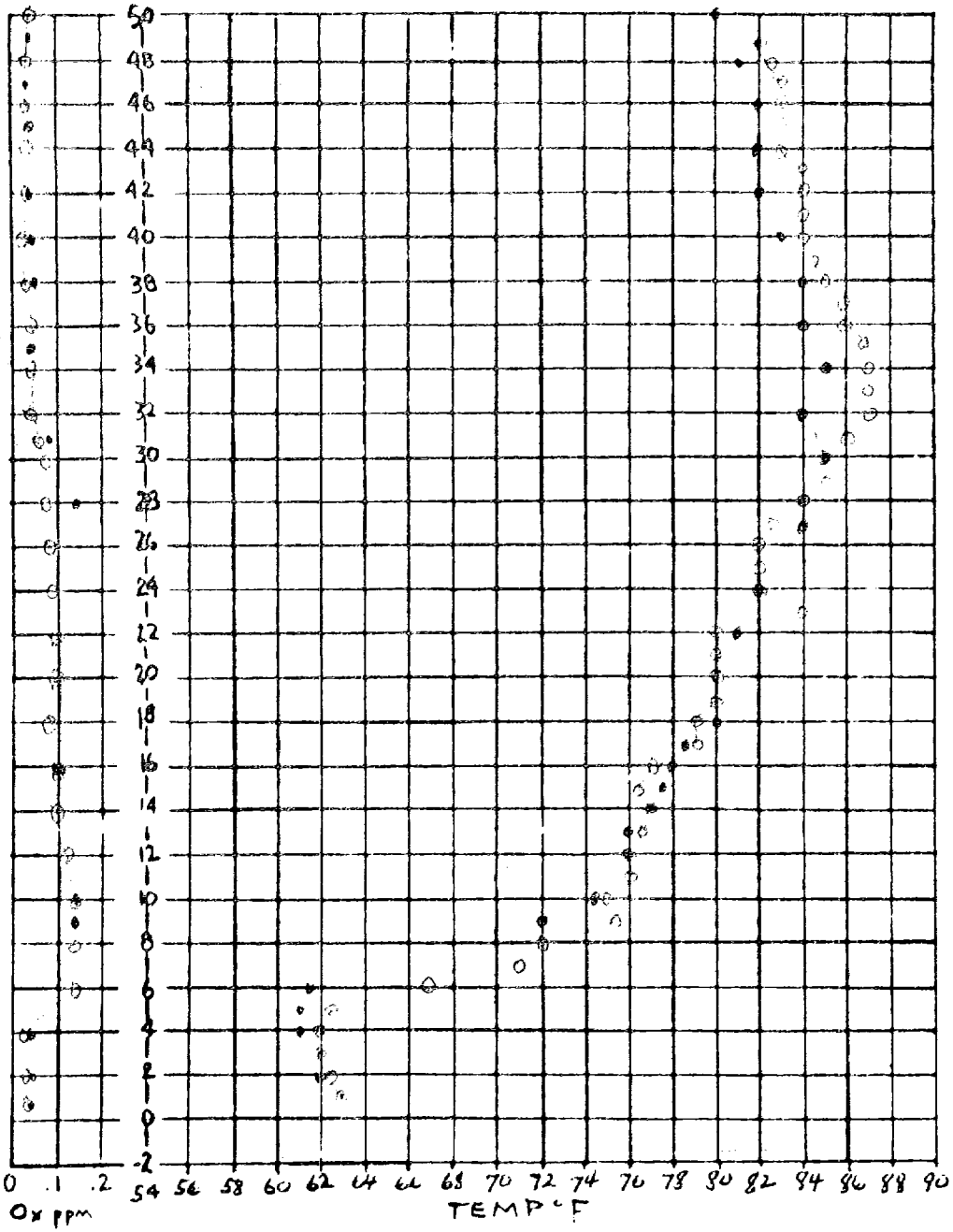
STATION OXR TIME ____ DATE 7/11/75

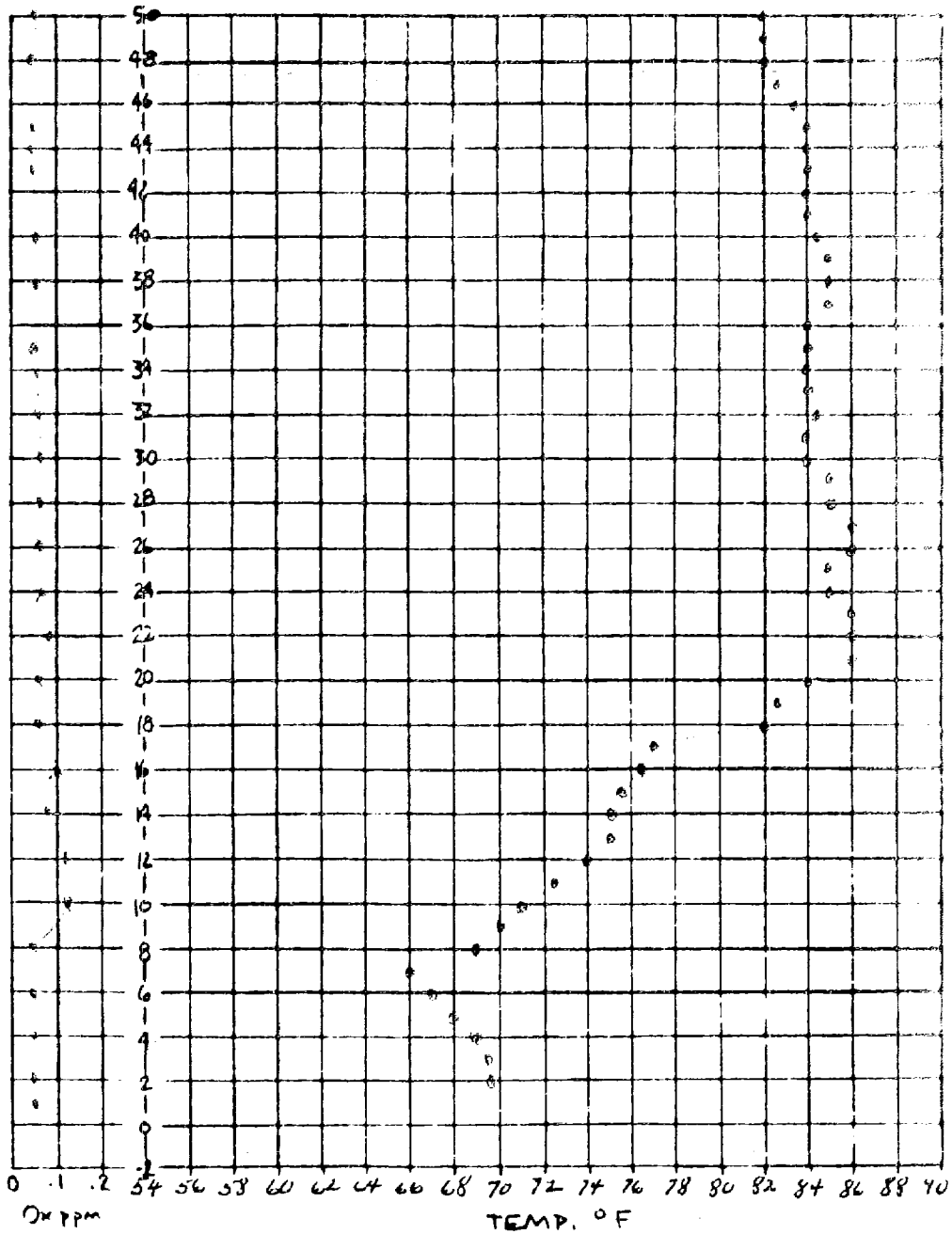
o down 1607-1627

• up 1627-1658 PST

STATION SMO TIME ____

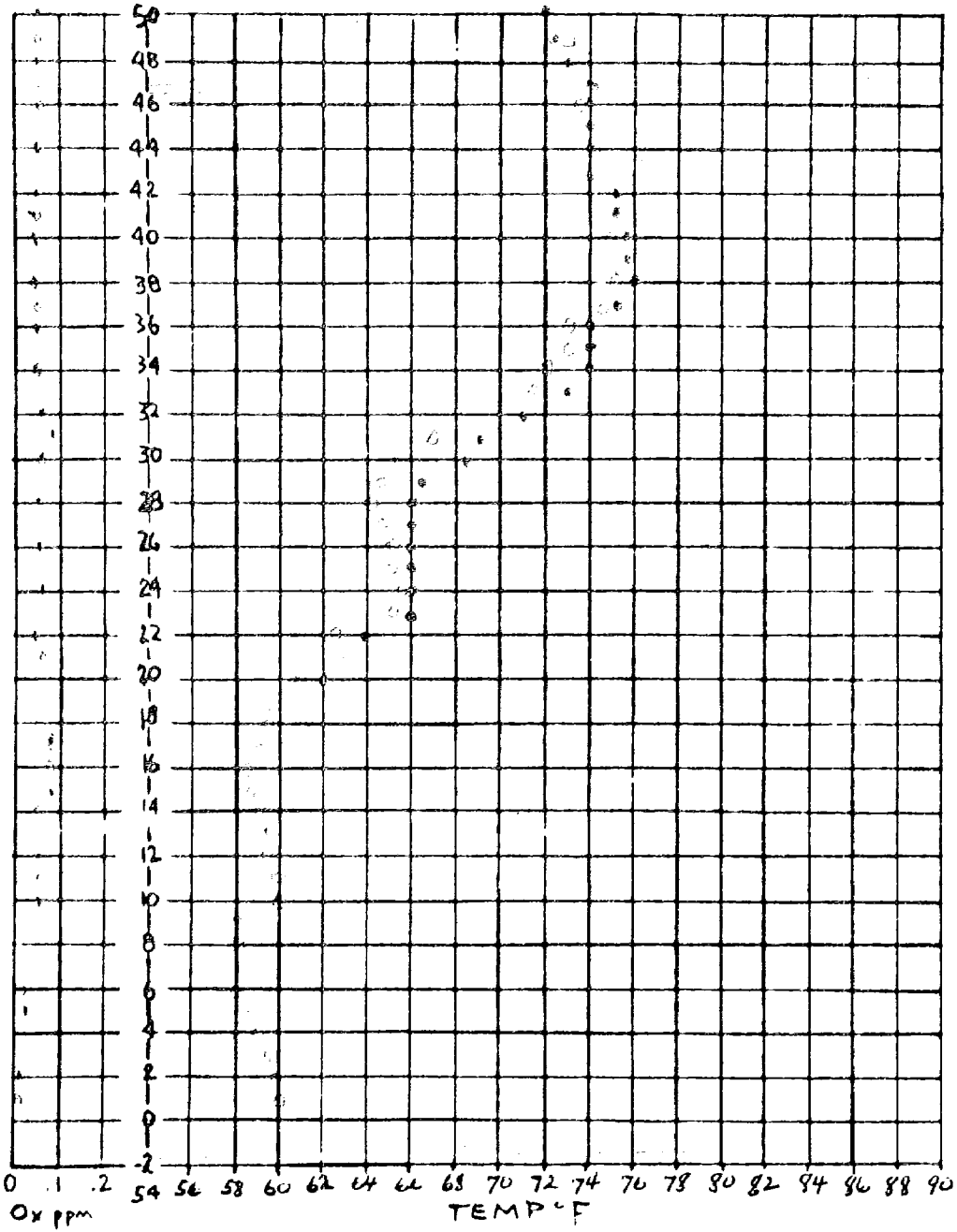
• up 1554 16..

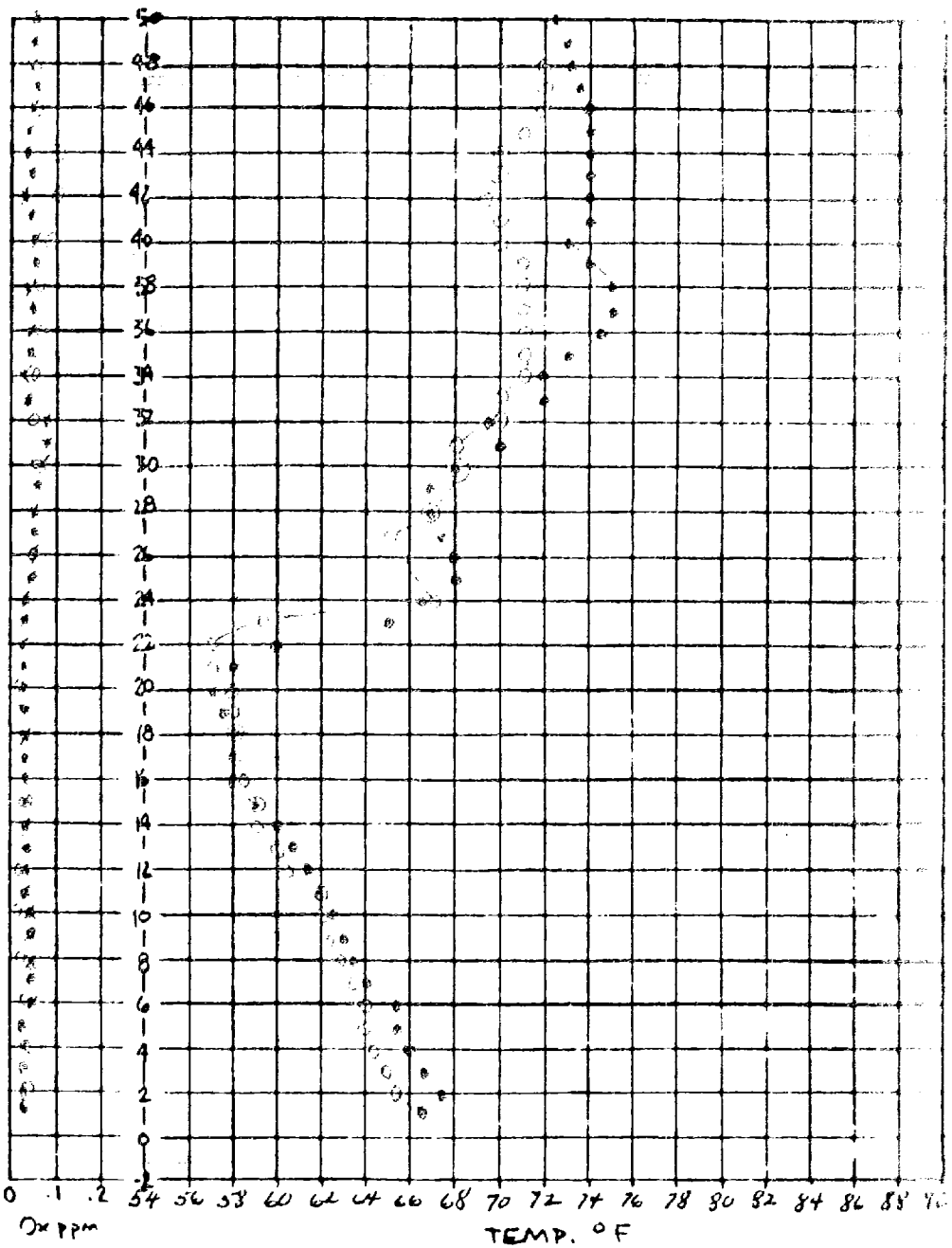




STATION CXR TIME ○ down 1843-1908 • up 1908-1922 DATE 7/11/75

STATION SMO TIME [illegible] PDT





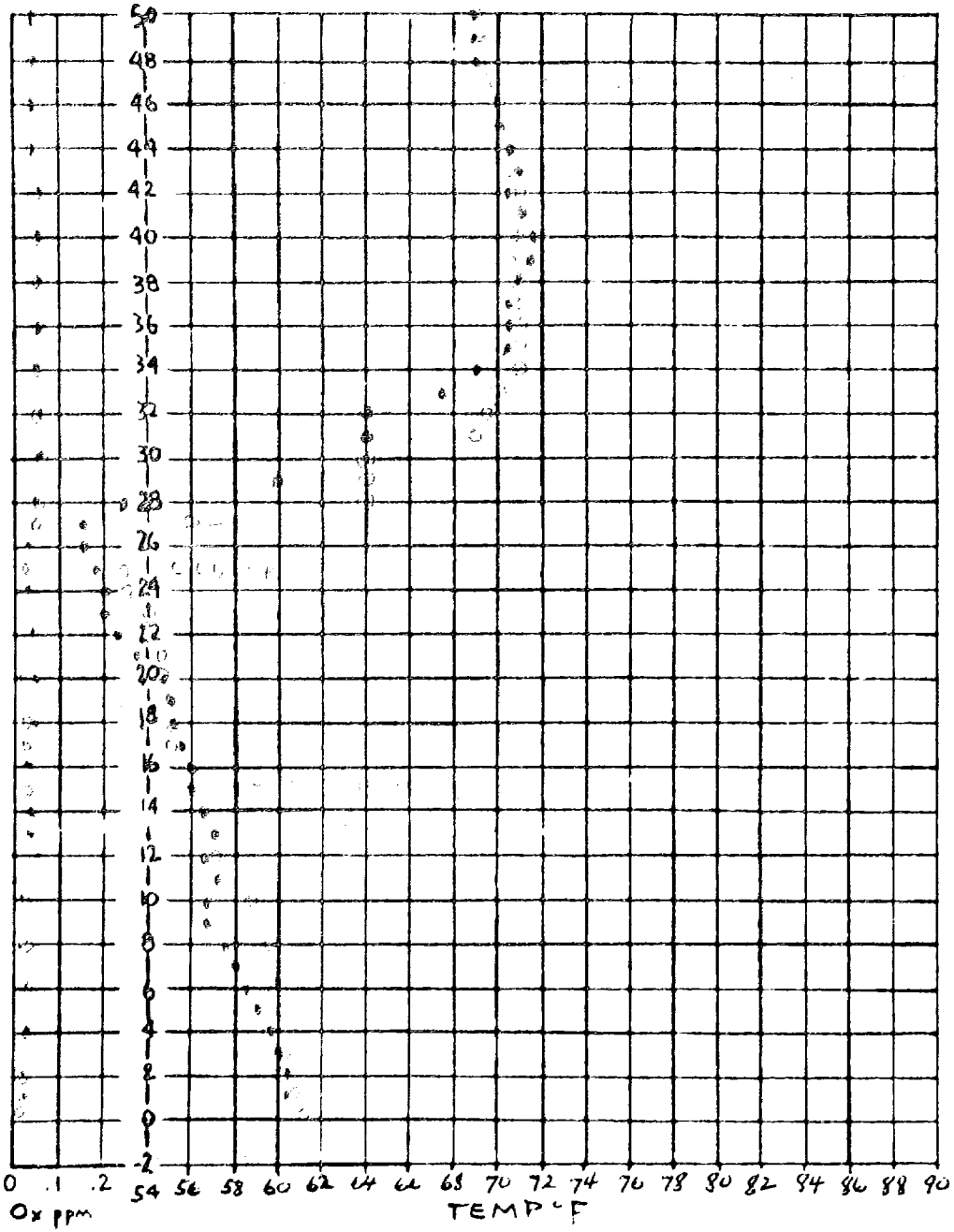
DATE

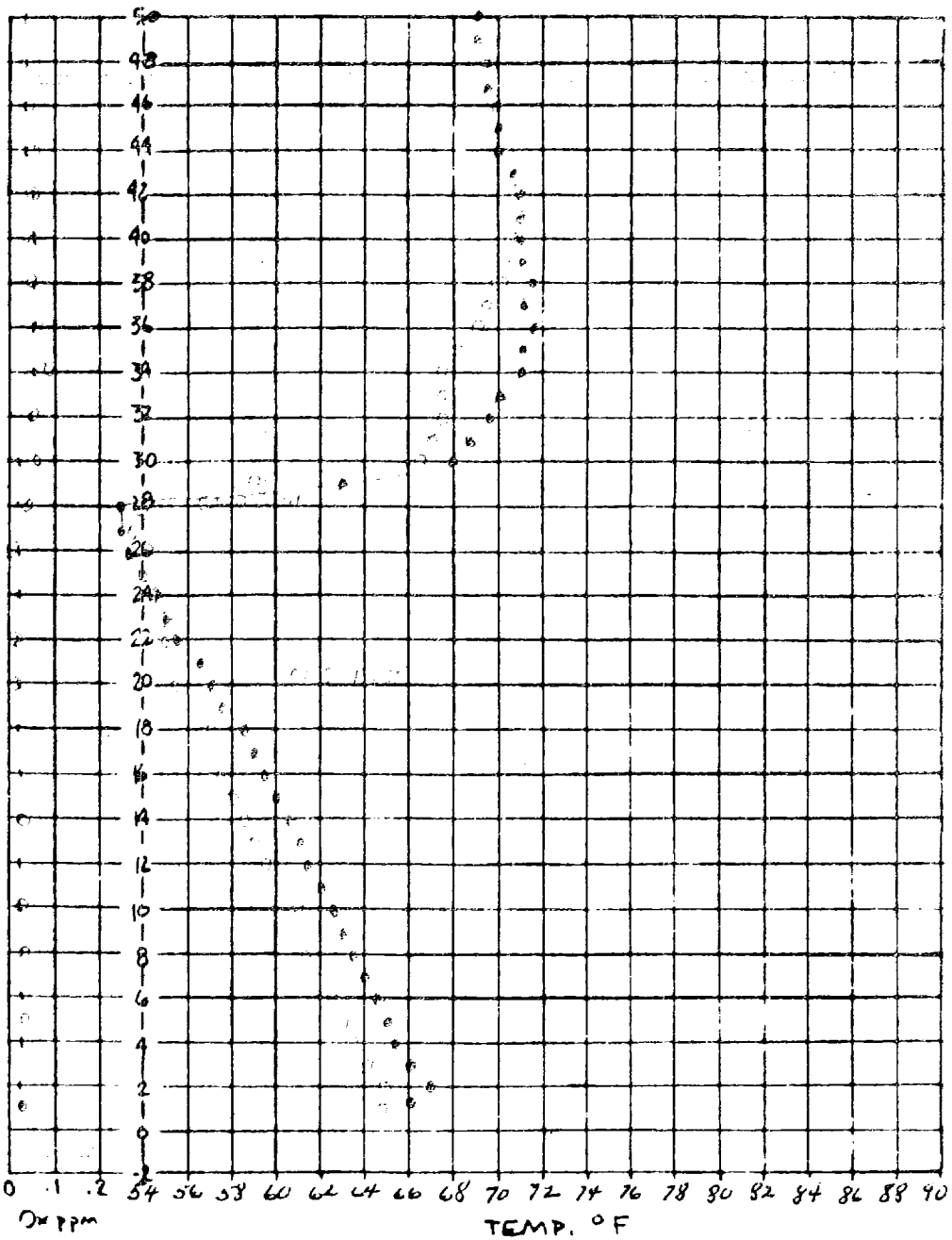
STATION OVR TIME 2332-2344 7/13/75

up 2344-2357

STATION SMO TIME

down 0014-

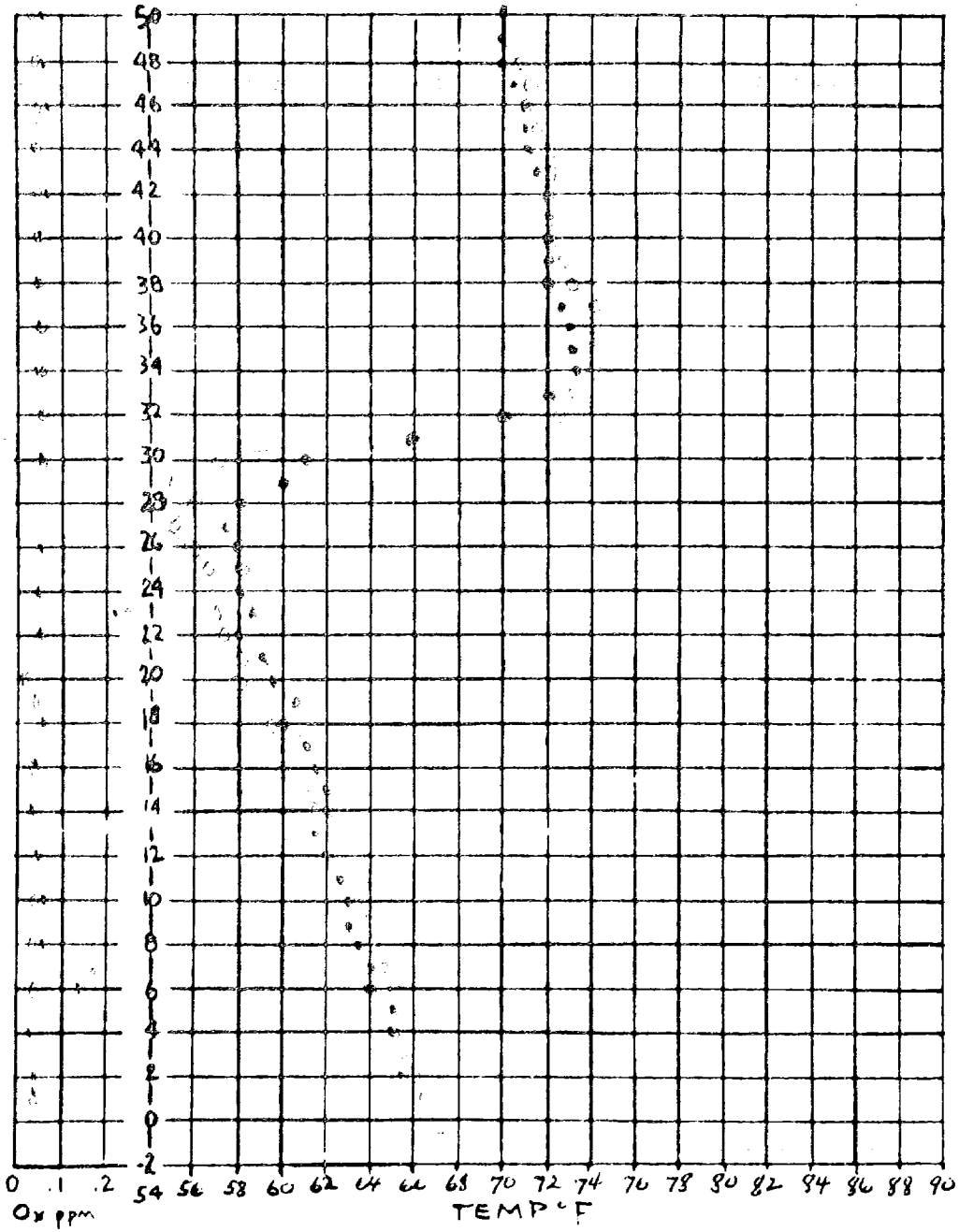


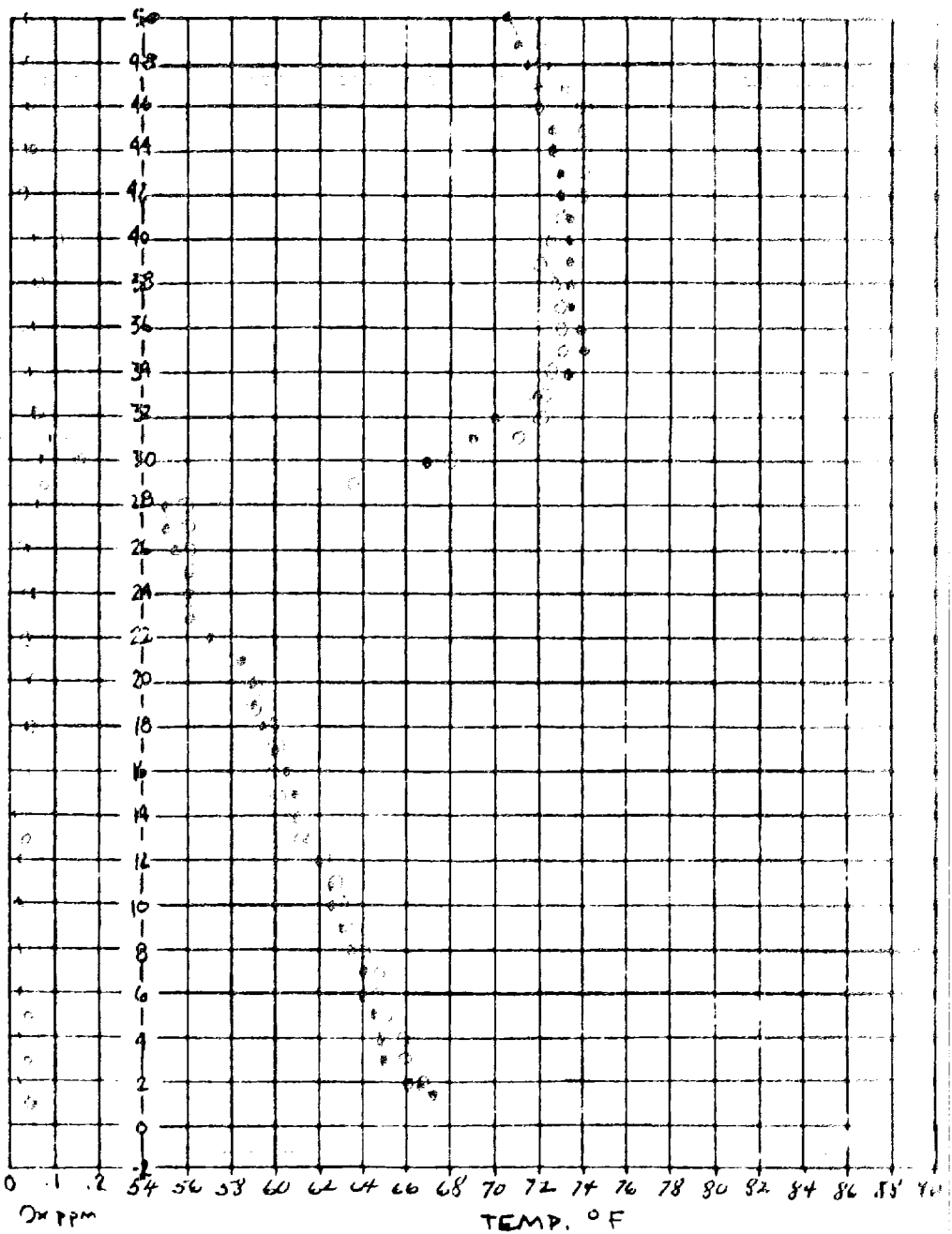


DATE

STATION OX2 TIME o down 0616-0635 7/14/75
up 0635-0647

STATION SMO TIME [illegible]
o down [illegible]



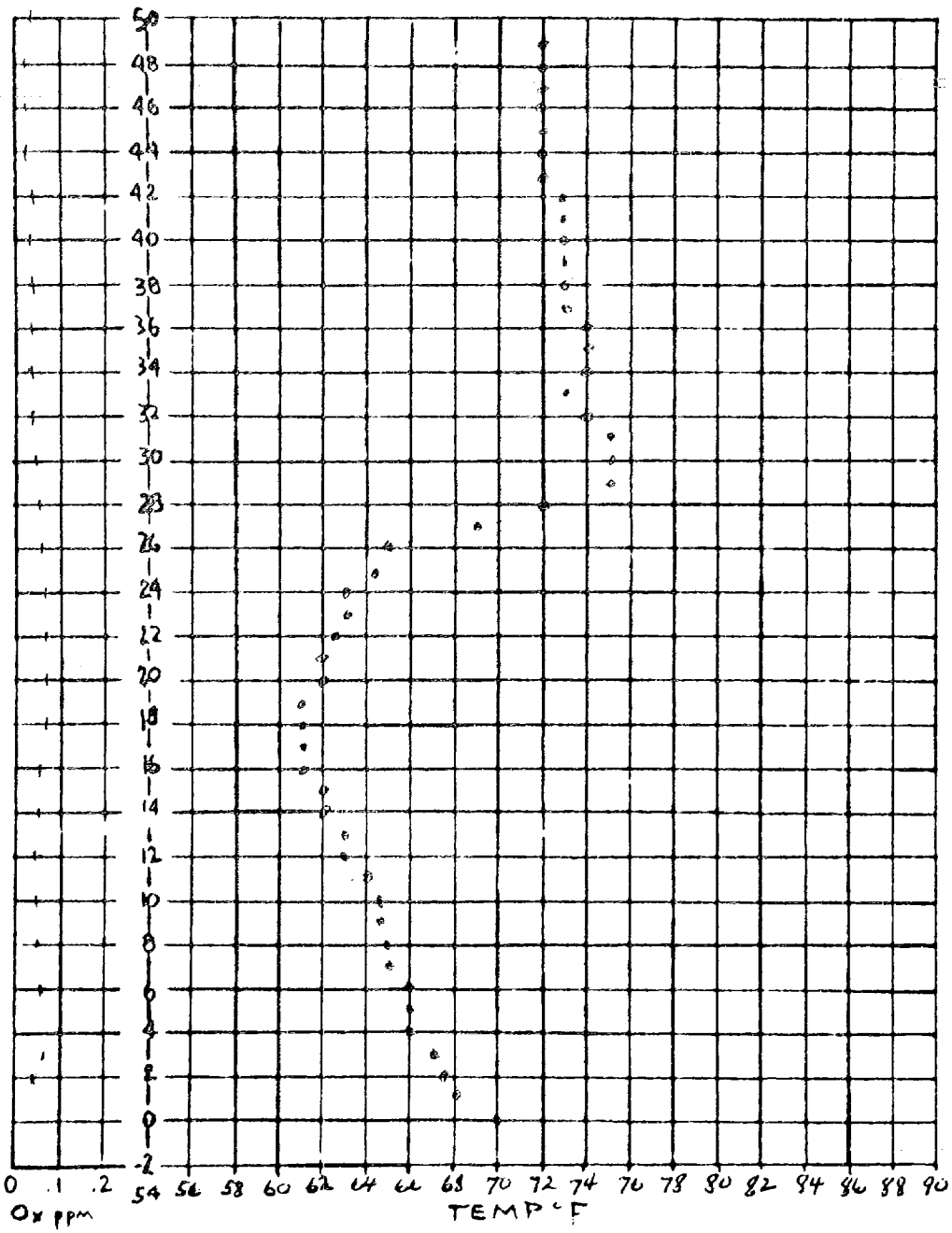


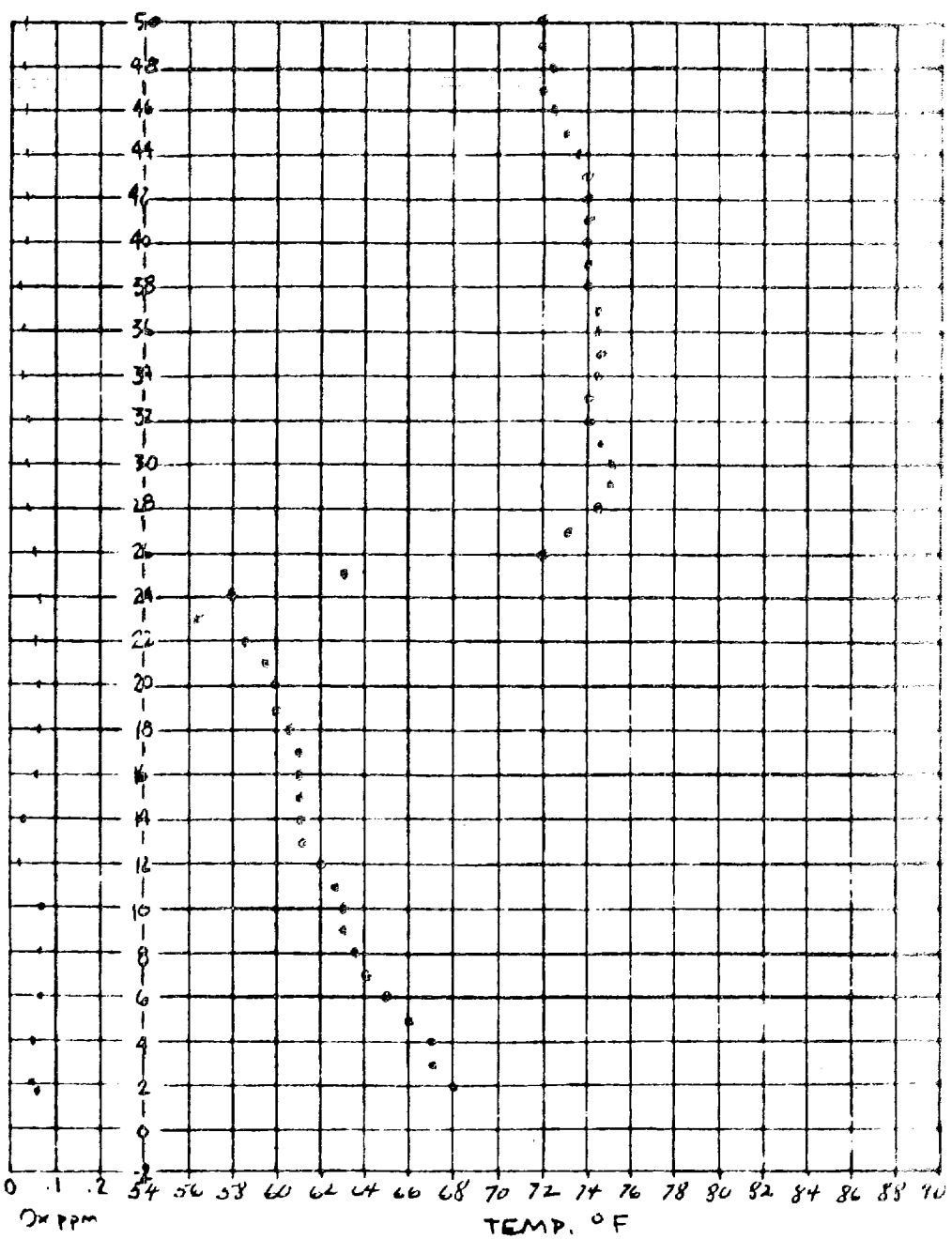
C-25

STATION OXR TIME _____ DATE 7/14/75

• down 0930-0943
• up 0943-0958

STATION _____ TIME _____





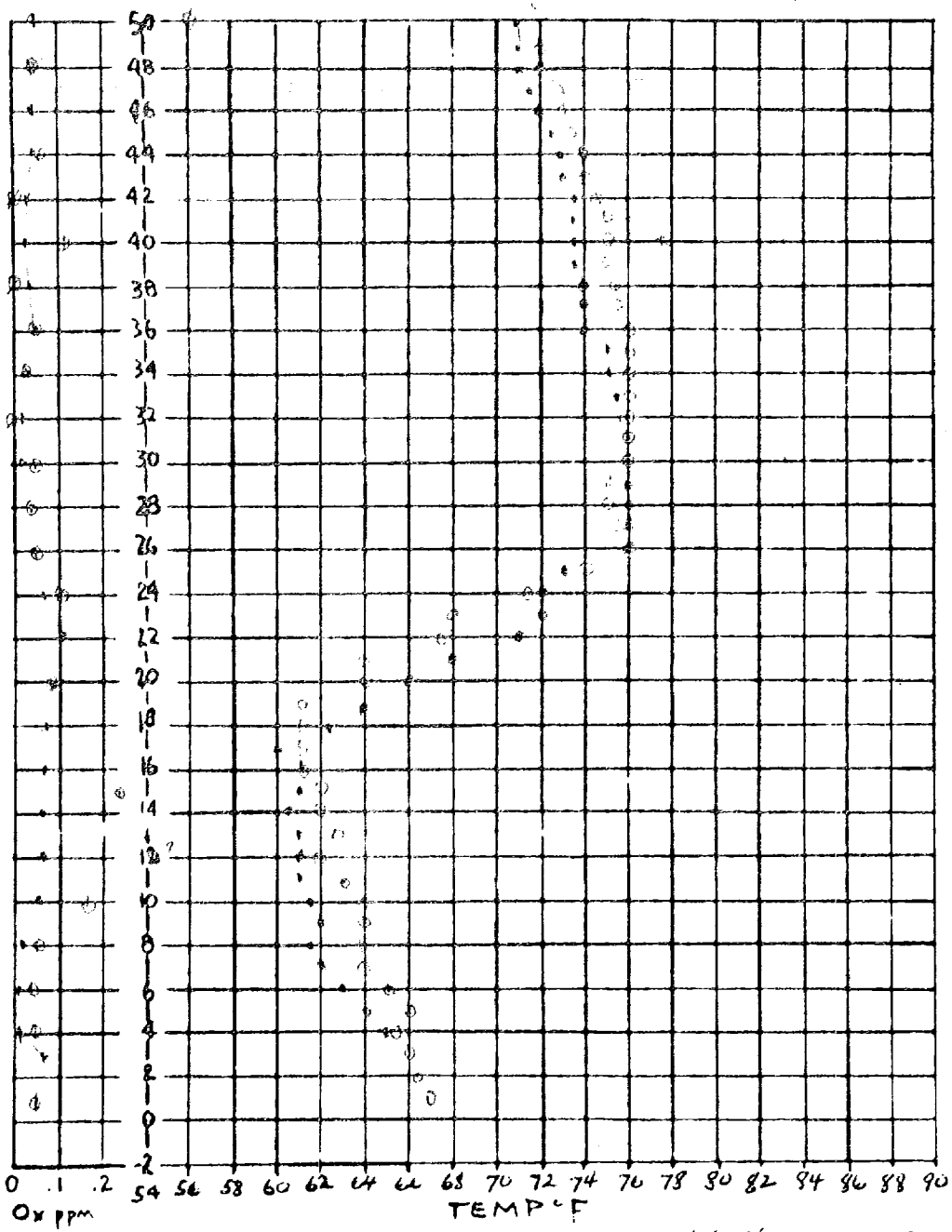
C-26

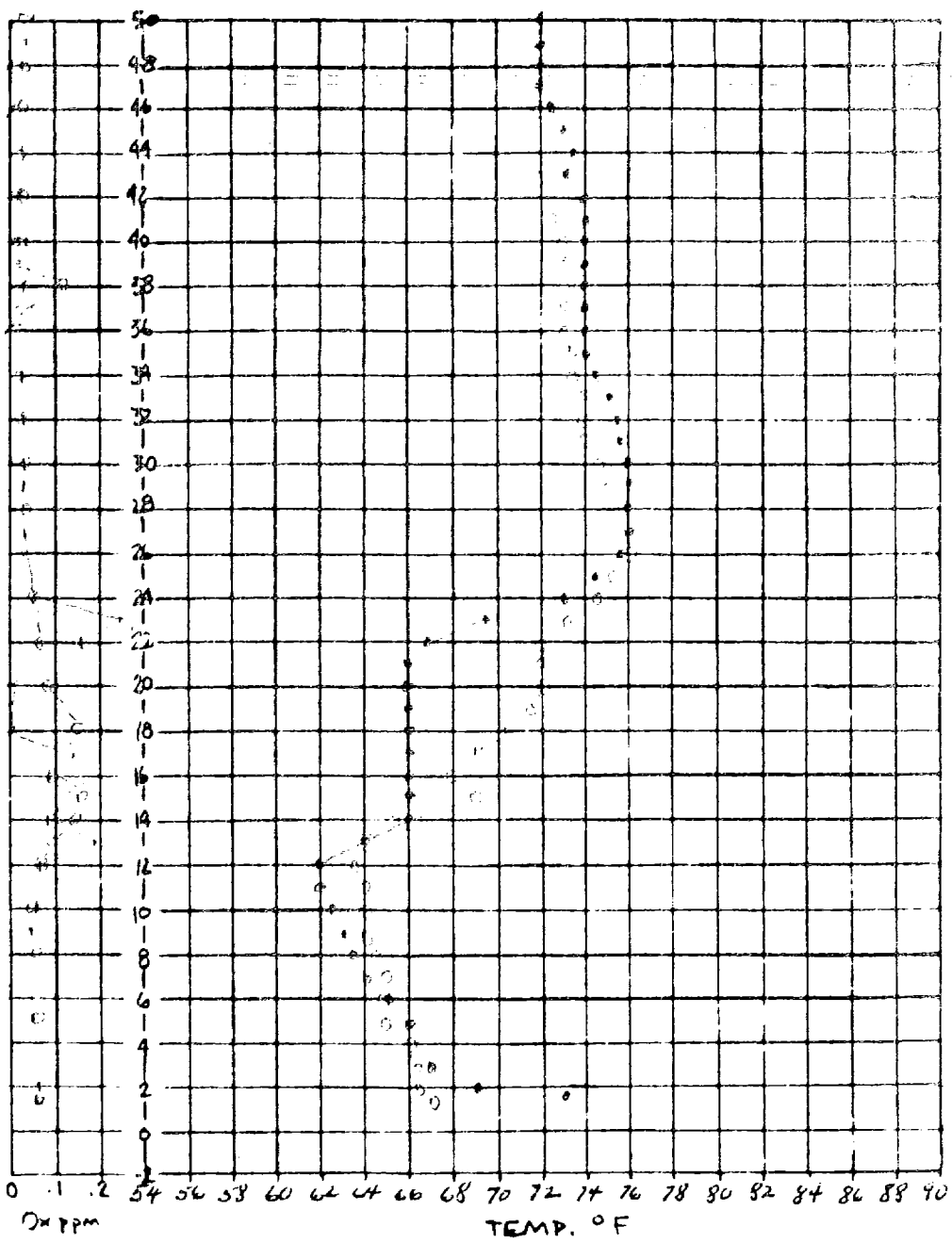
down 0 1212-1224

STATION OXR TIME _____ DATE 7/14/75

STATION SMO TIME _____

up 1151

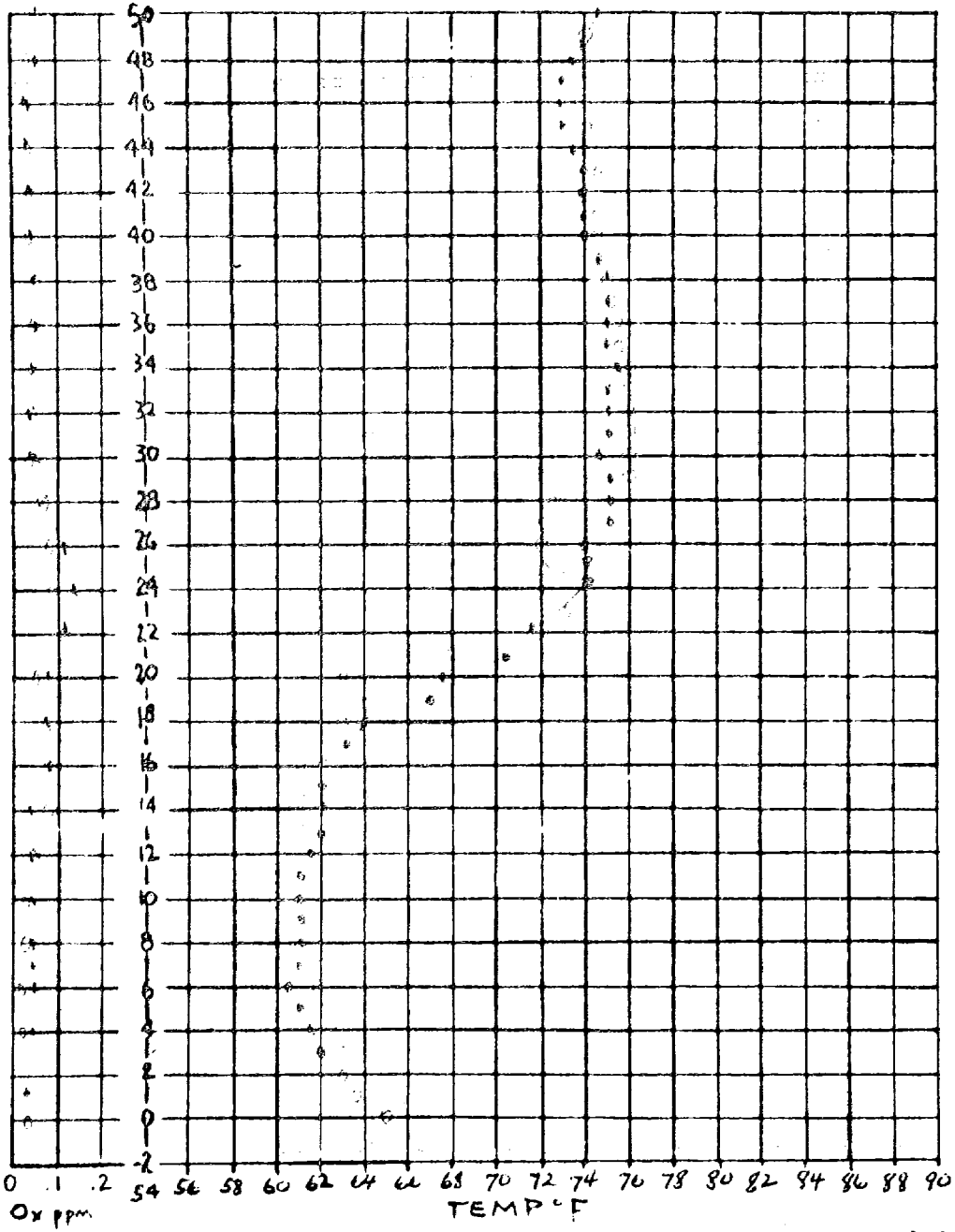


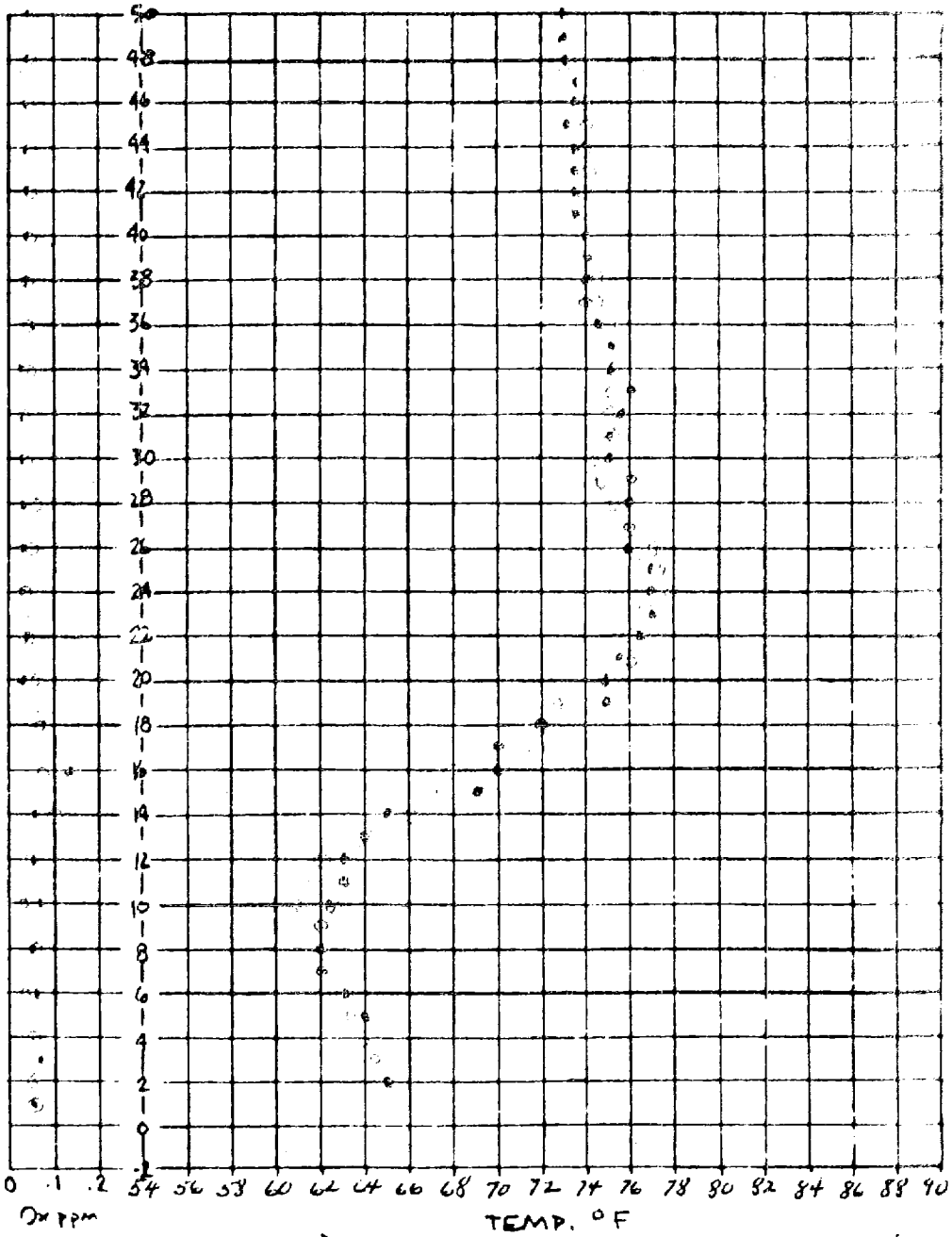


STATION OXR TIME up 1518-1535 down 0 1508-1518

DATE 7/14/75

STATION SMO TIME up 1453-15[illegible] down 0 1542-1558

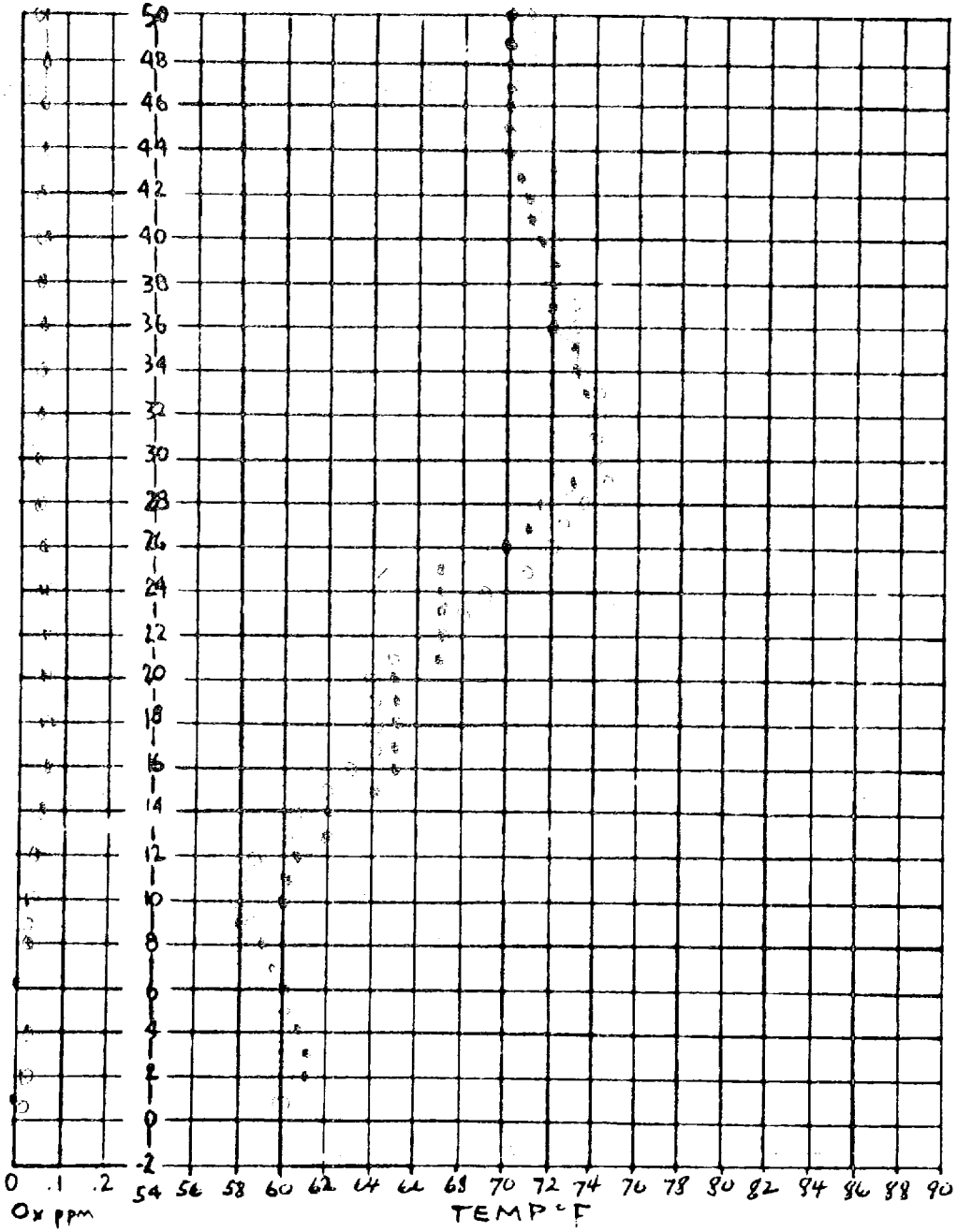


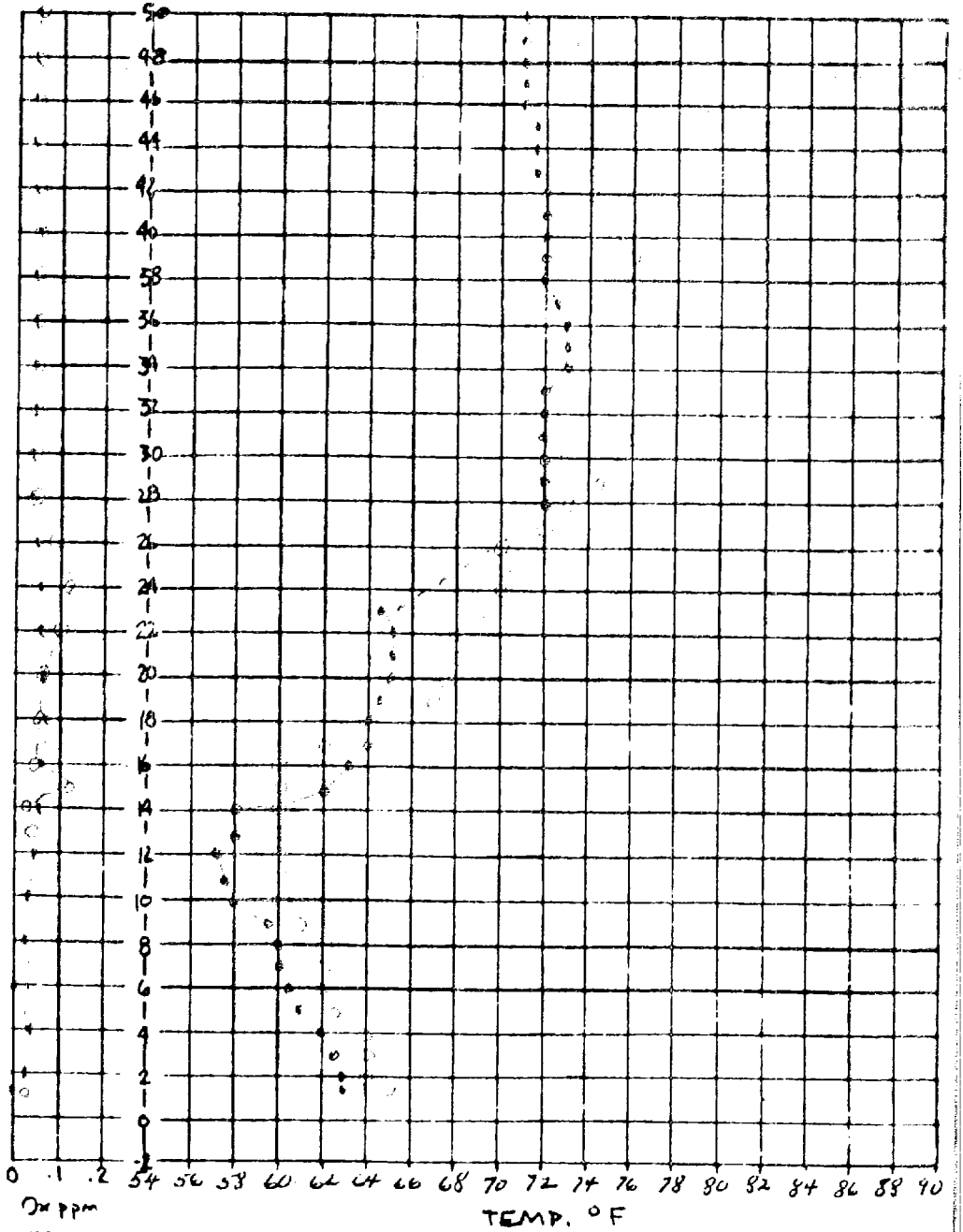


STATION OXK TIME down 0 1813-1827 up 1827-1842

DATE 7/14/75

STATION SMO TIME up 1757-1813 down [illegible]

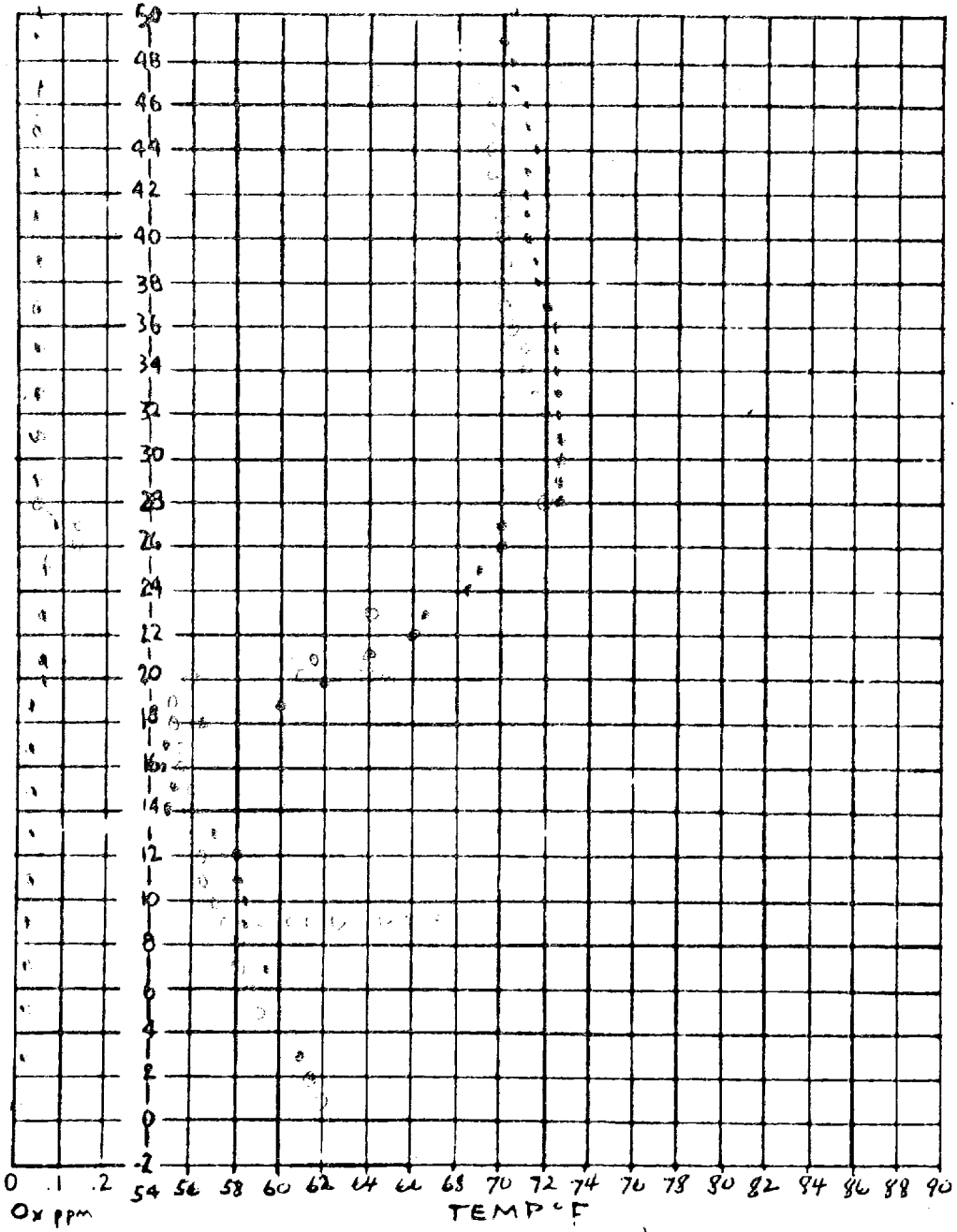




STATION OXR TIME o down 2312-2329 • up 2329-2342 DATE 7/14/75

STATION SMO TIME • up 2288-2312 o down 2327-0017

ALT. 100's OF FEET

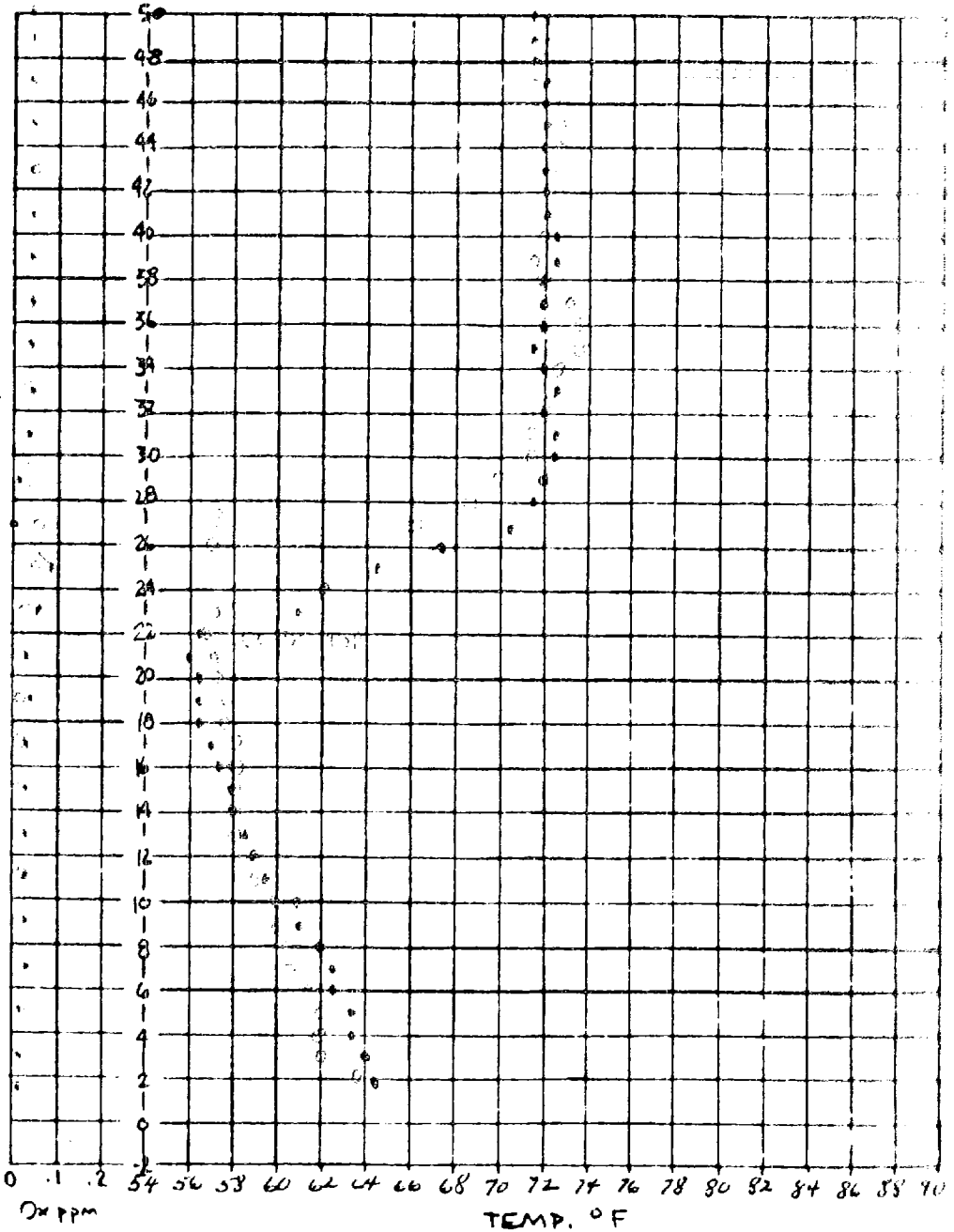


• down 0622-0633

STATION OXR TIME _____ DATE 7/15/13

• up 0632-0644

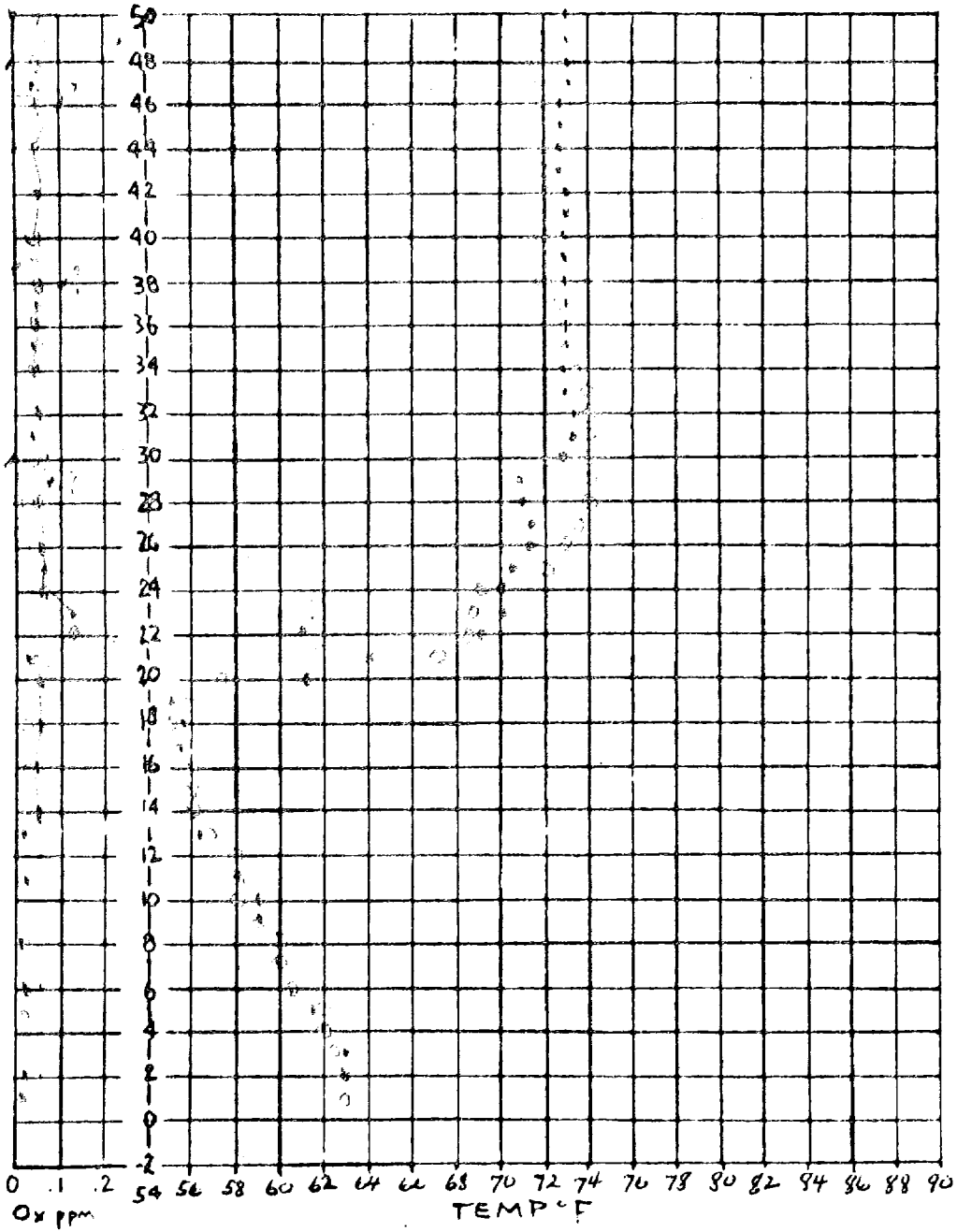
ALT. 100's OF FEET



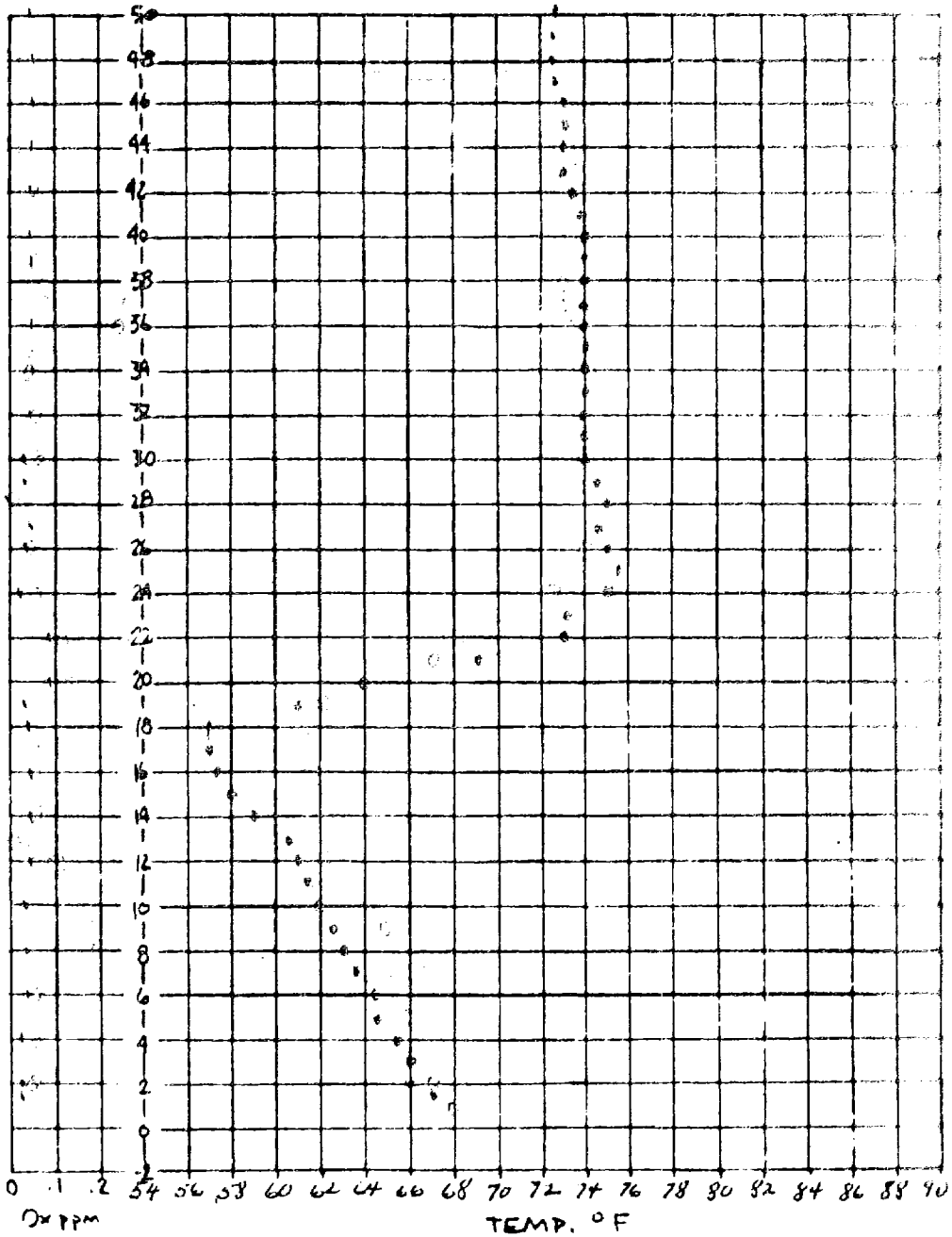
• up 0601-0611

STATION SMD TIME _____

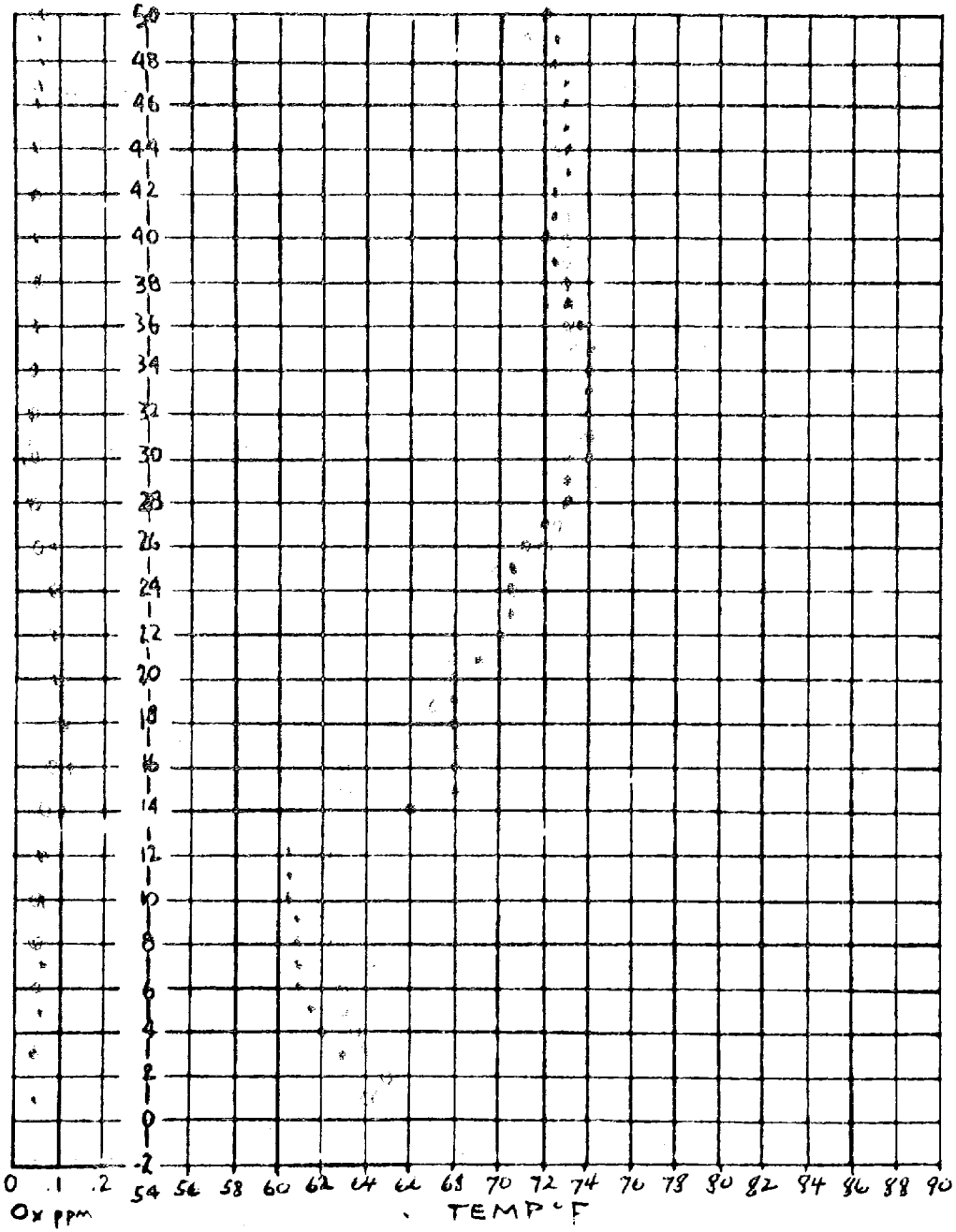
• down 0711-0716

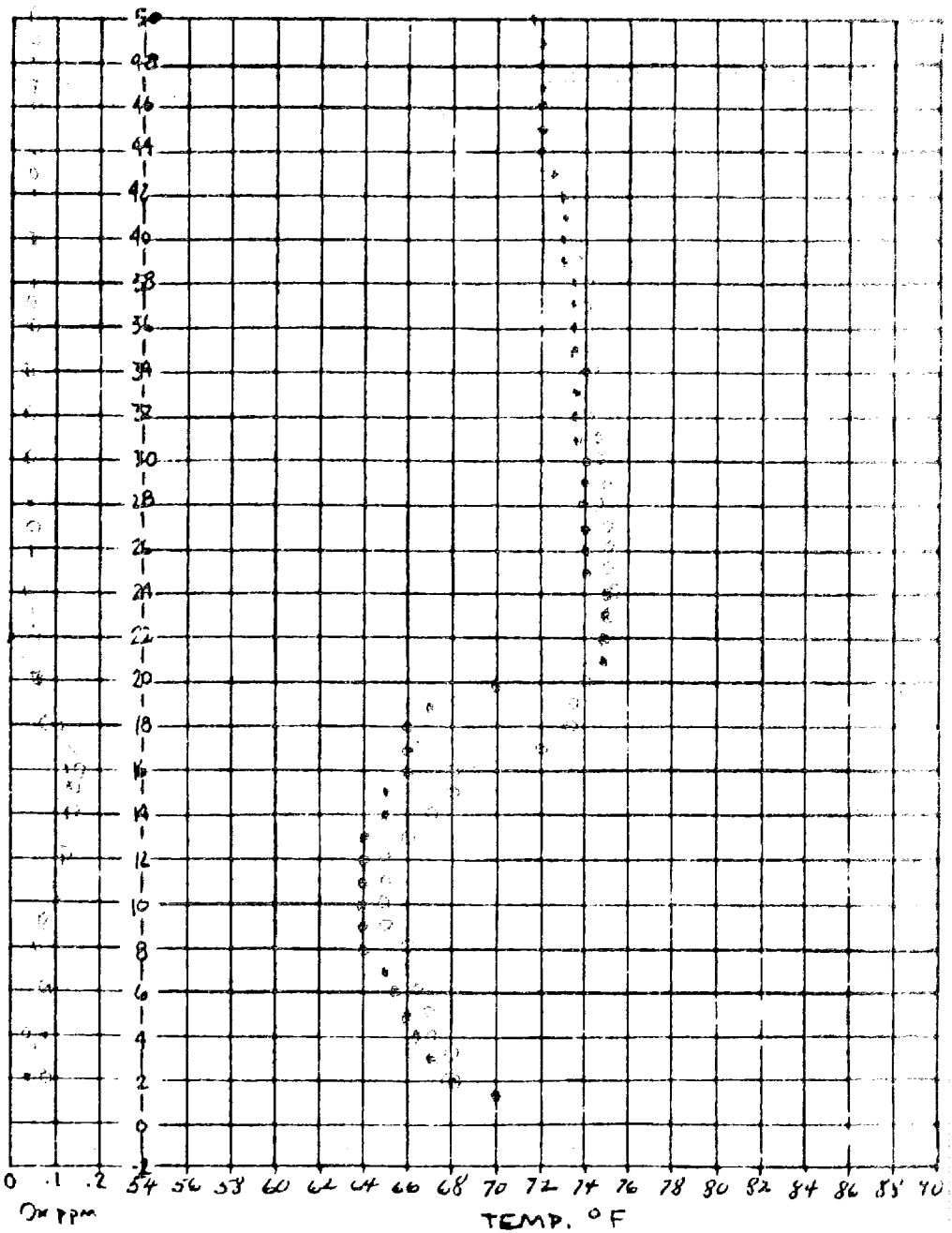


STATION OXR TIME 0940-0953 DATE 7/15/75



STATION SMO TIME

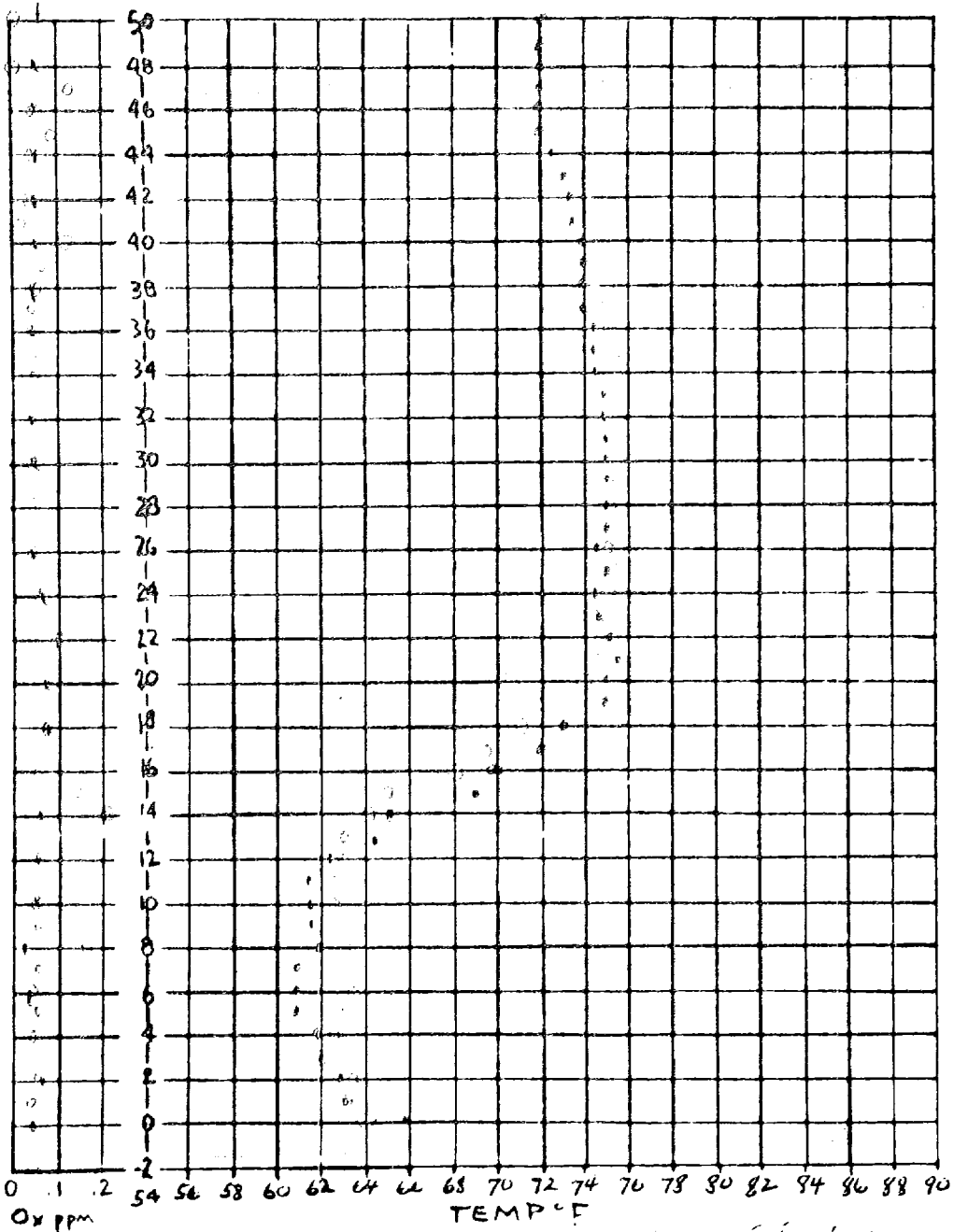


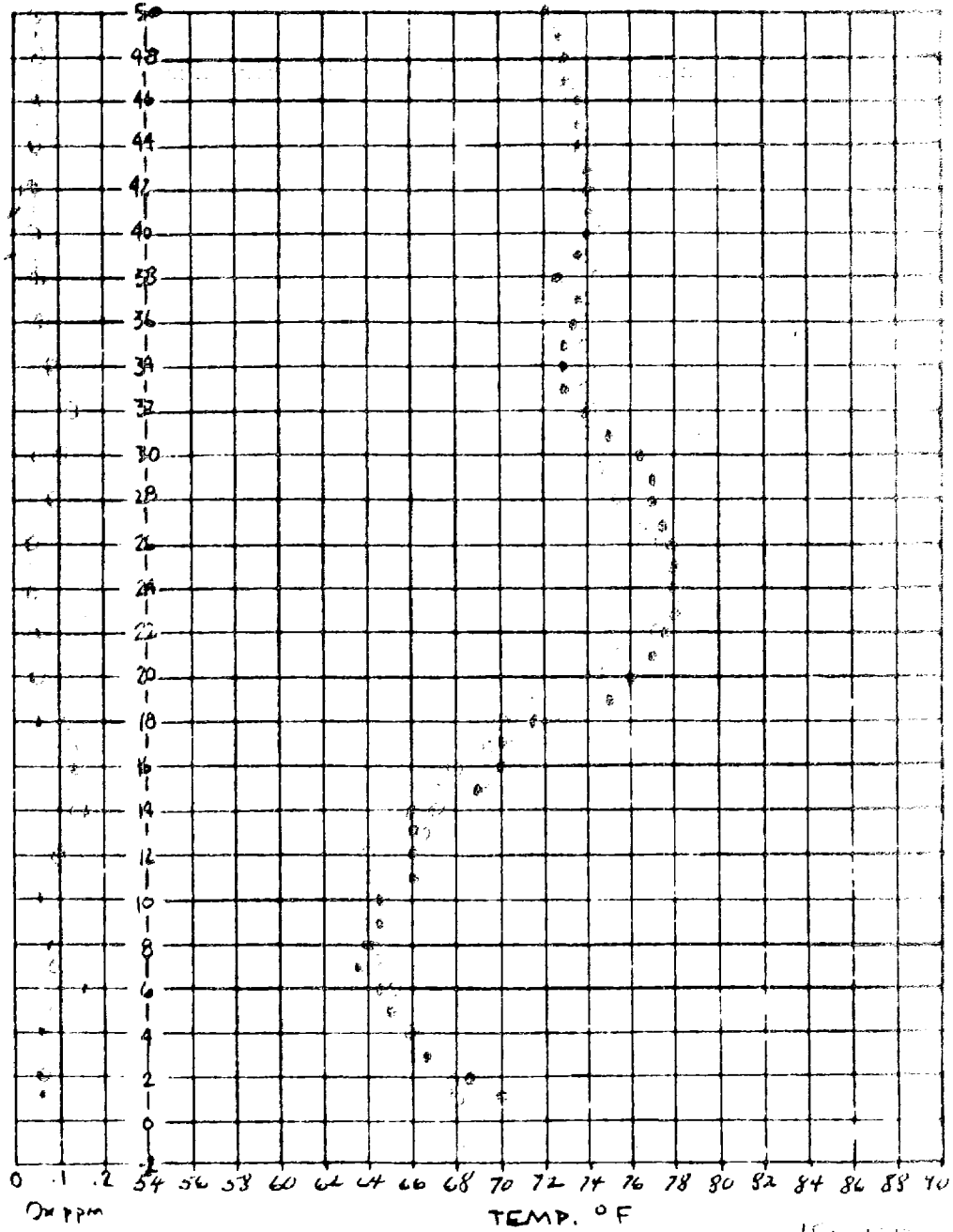


STATION [illegible] TIME 0 down 1223-1241 • up [illegible]-1264

DATE 7/12/75

STATION SMO TIME • up [illegible] 0 down [illegible]





o down 1515-1534 DATE 7/15/75

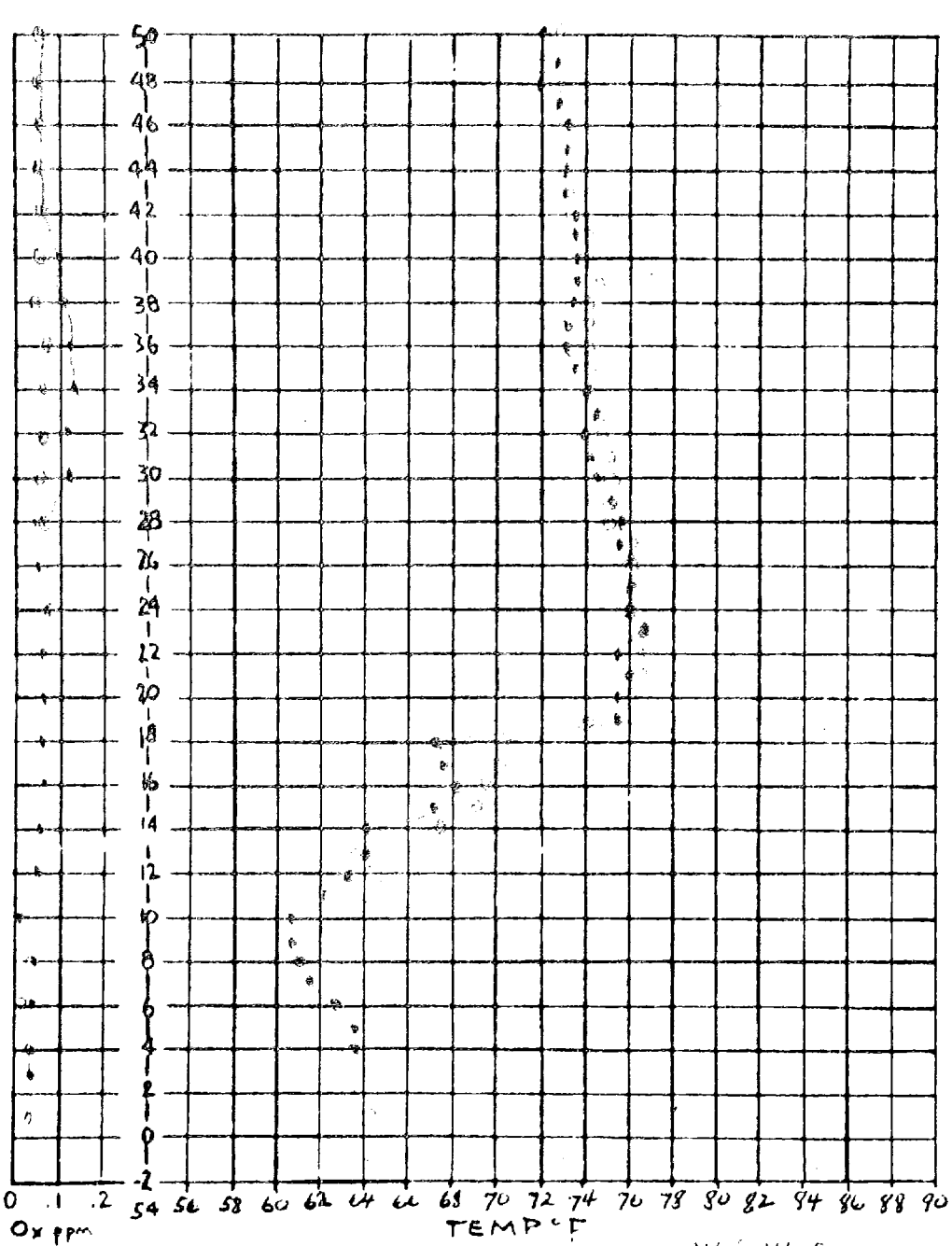
STATION OX TIME

• up 1539-1549

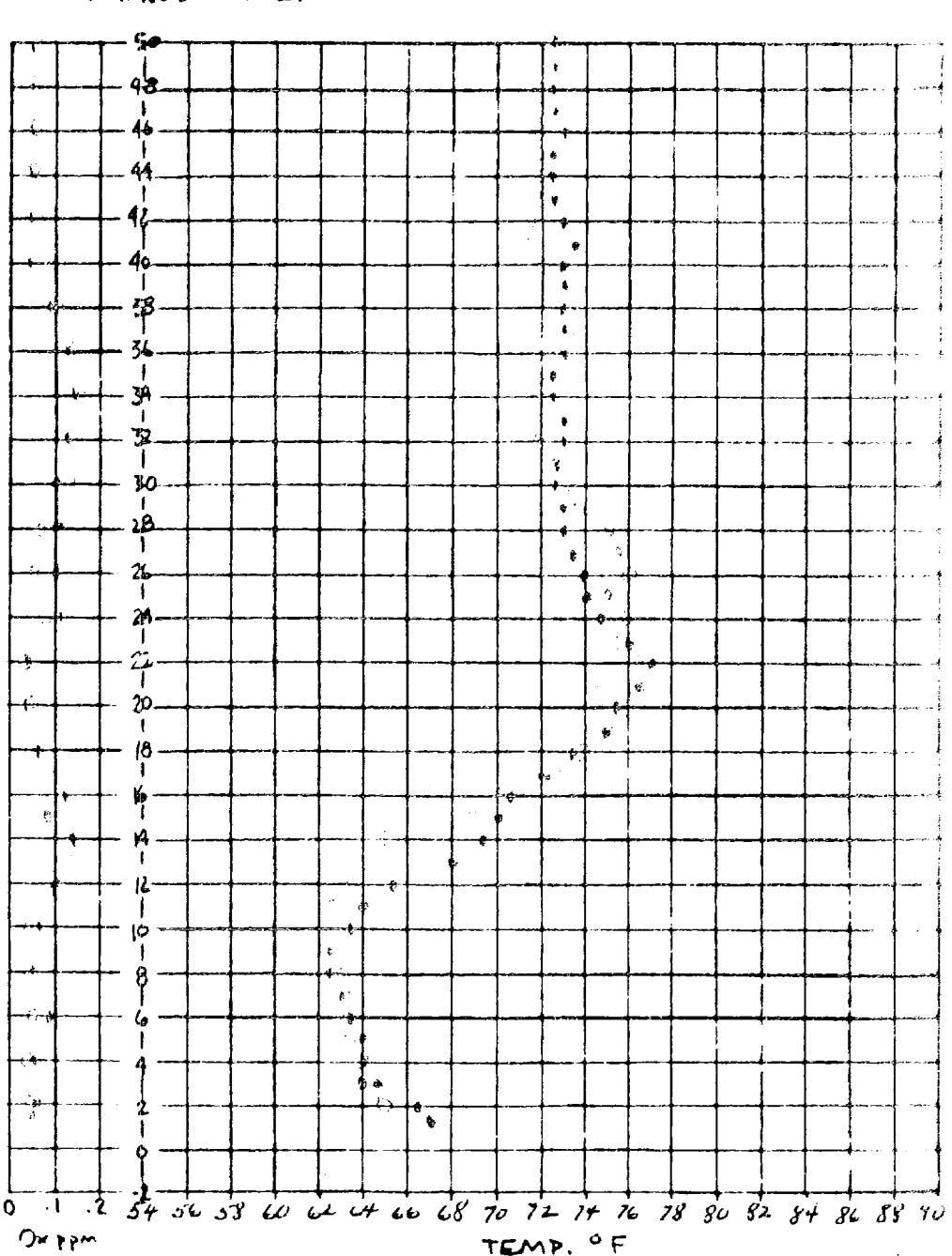
STATION SMO TIME

• up 1500-1510

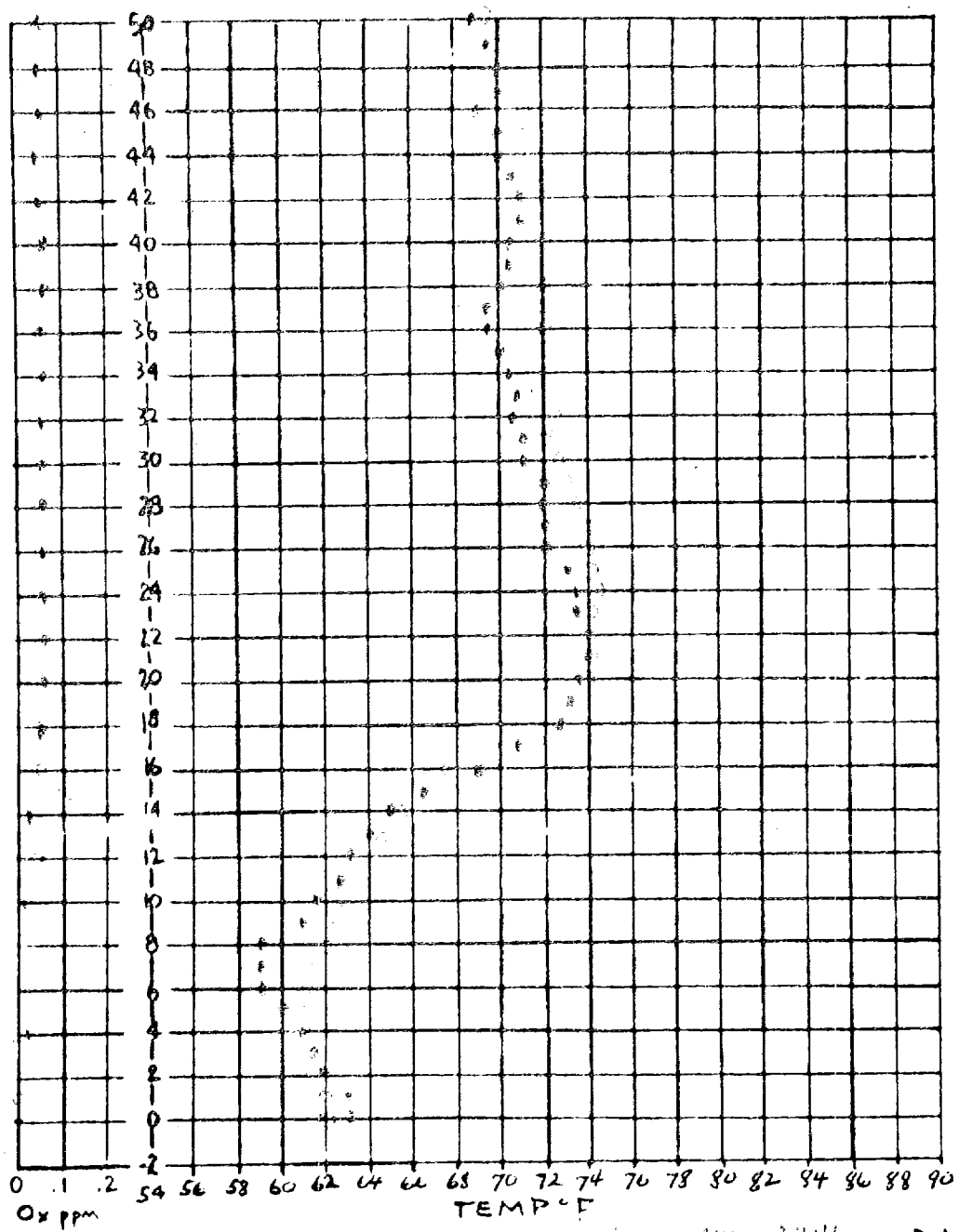
o down 1525-1540



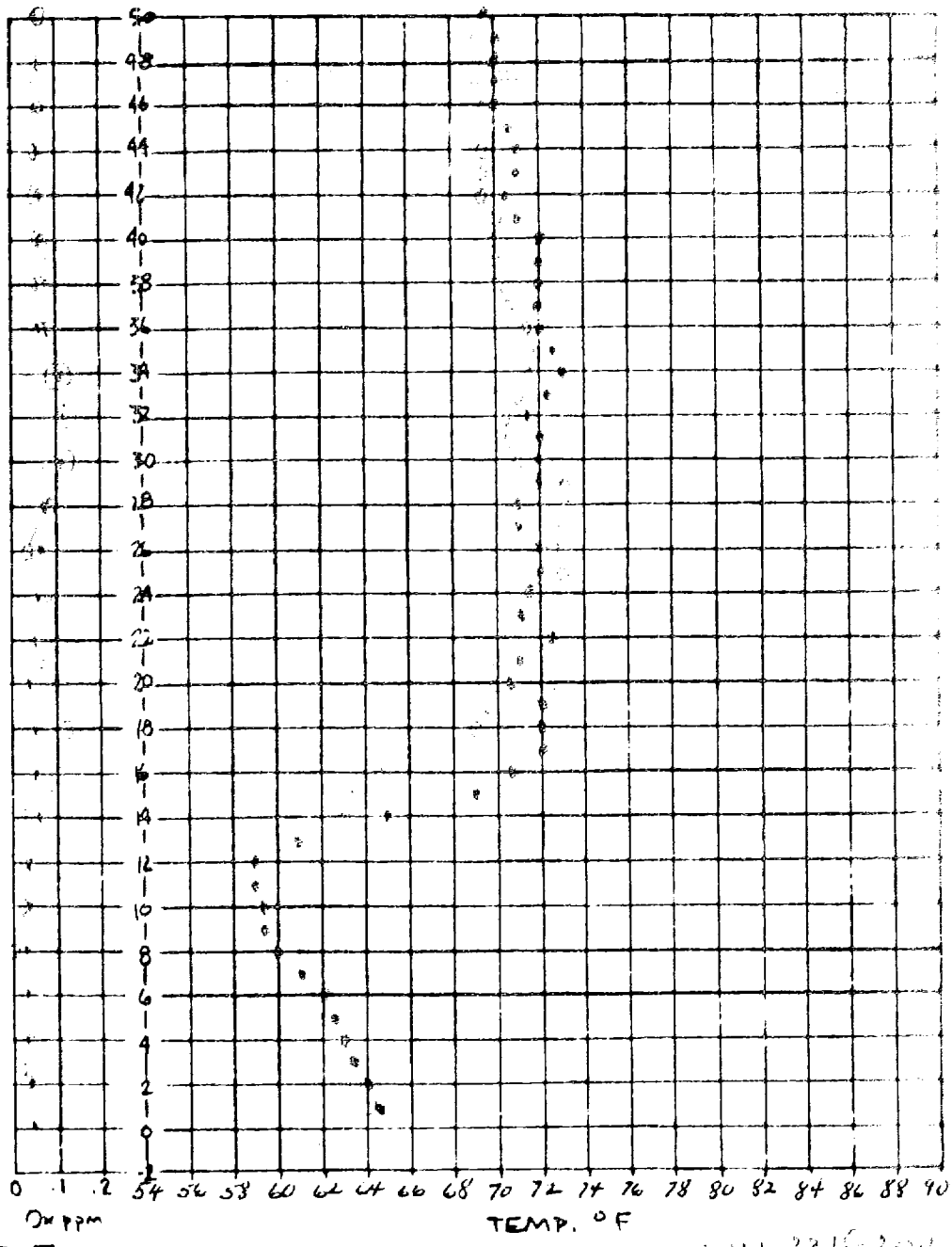
STATION 202 TIME [illegible] DATE 7/15/72



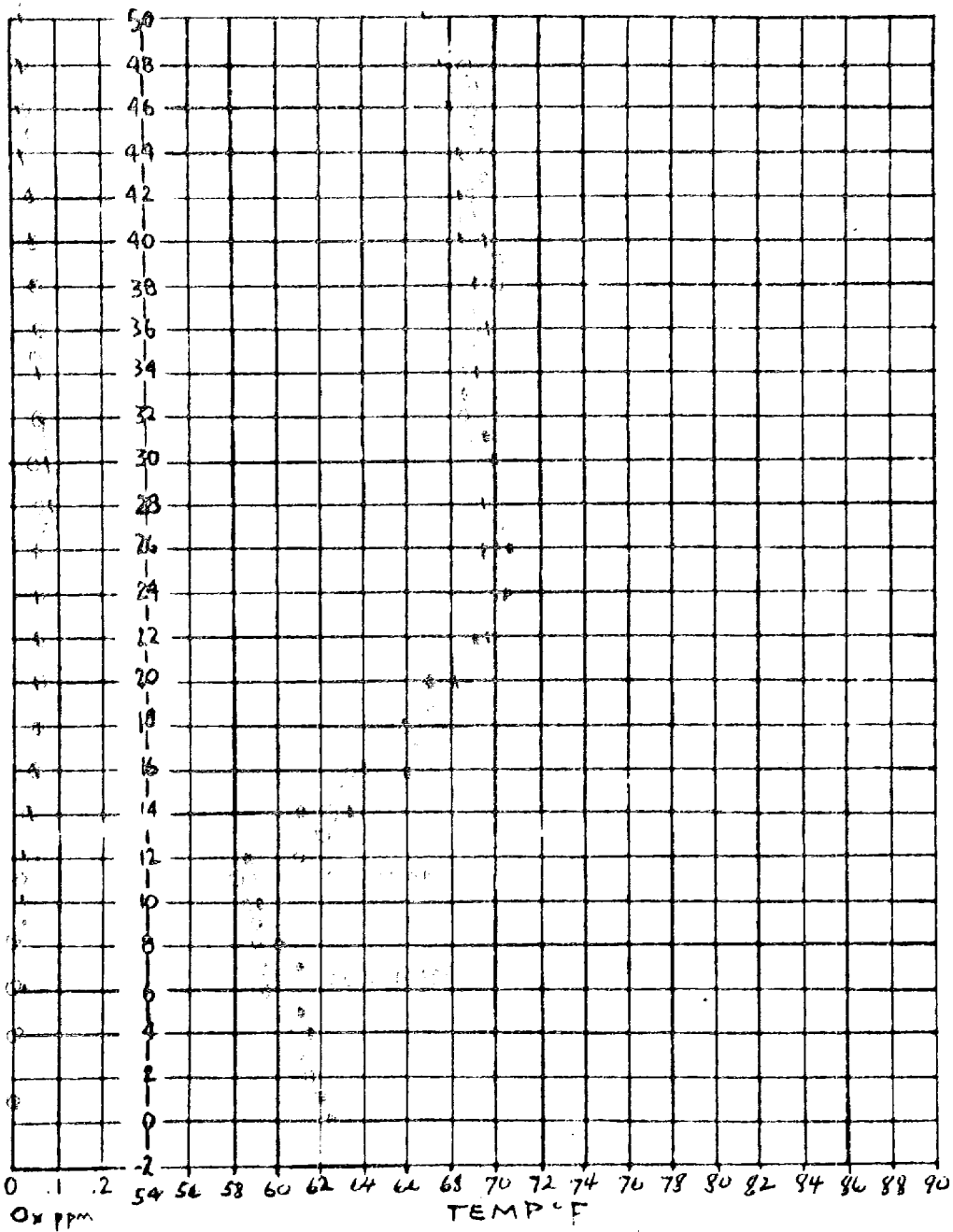
STATION [illegible] TIME [illegible]

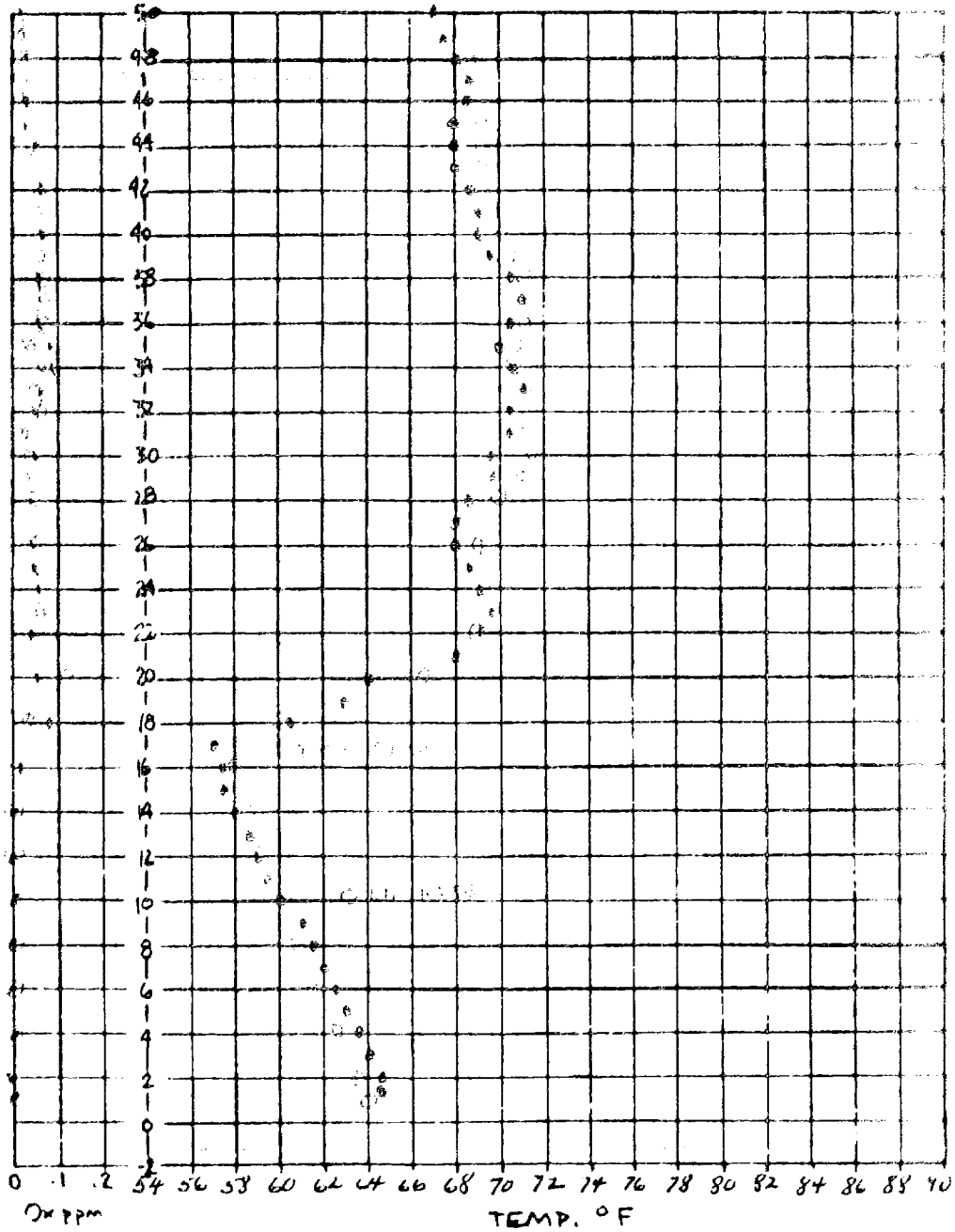


STATION _____ TIME _____ DATE _____



STATION _____ TIME _____

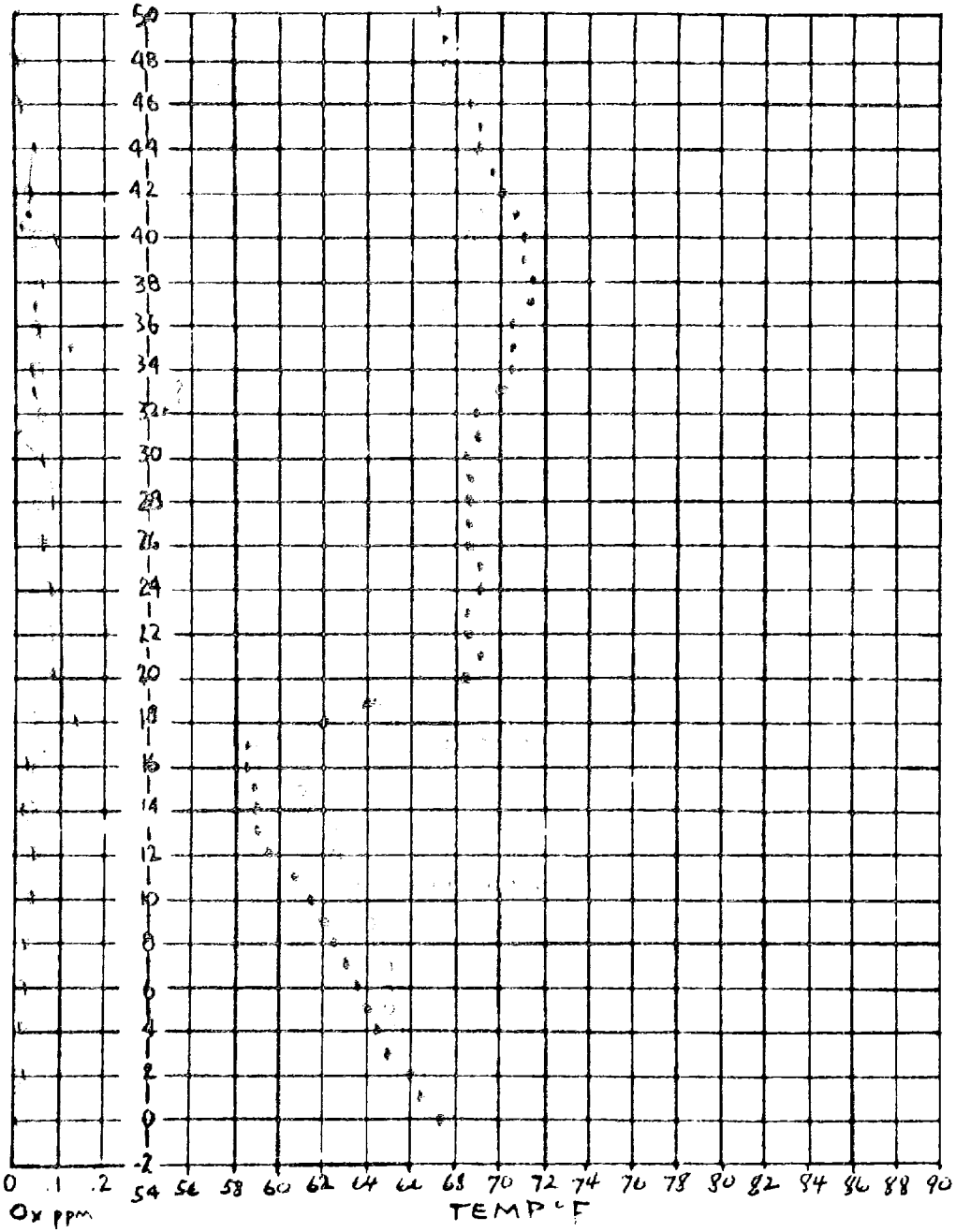




STATION OXP TIME 0 down 0642-0702 • up 0702-0733 DATE 7/16/75

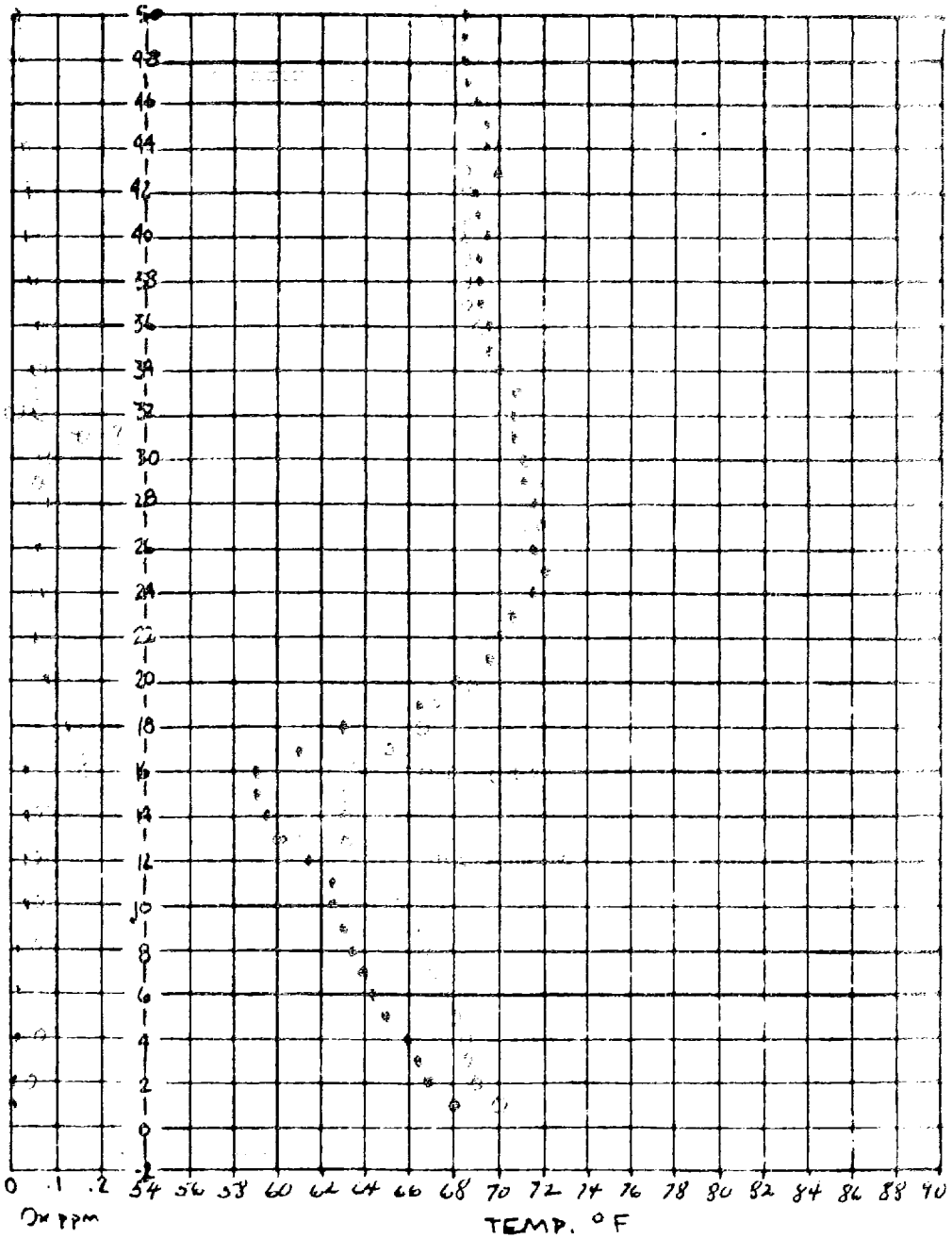
STATION SMO TIME • up 0628-0[illegible] 0 down 0732-0[illegible]

ALT. 100's OF FEET

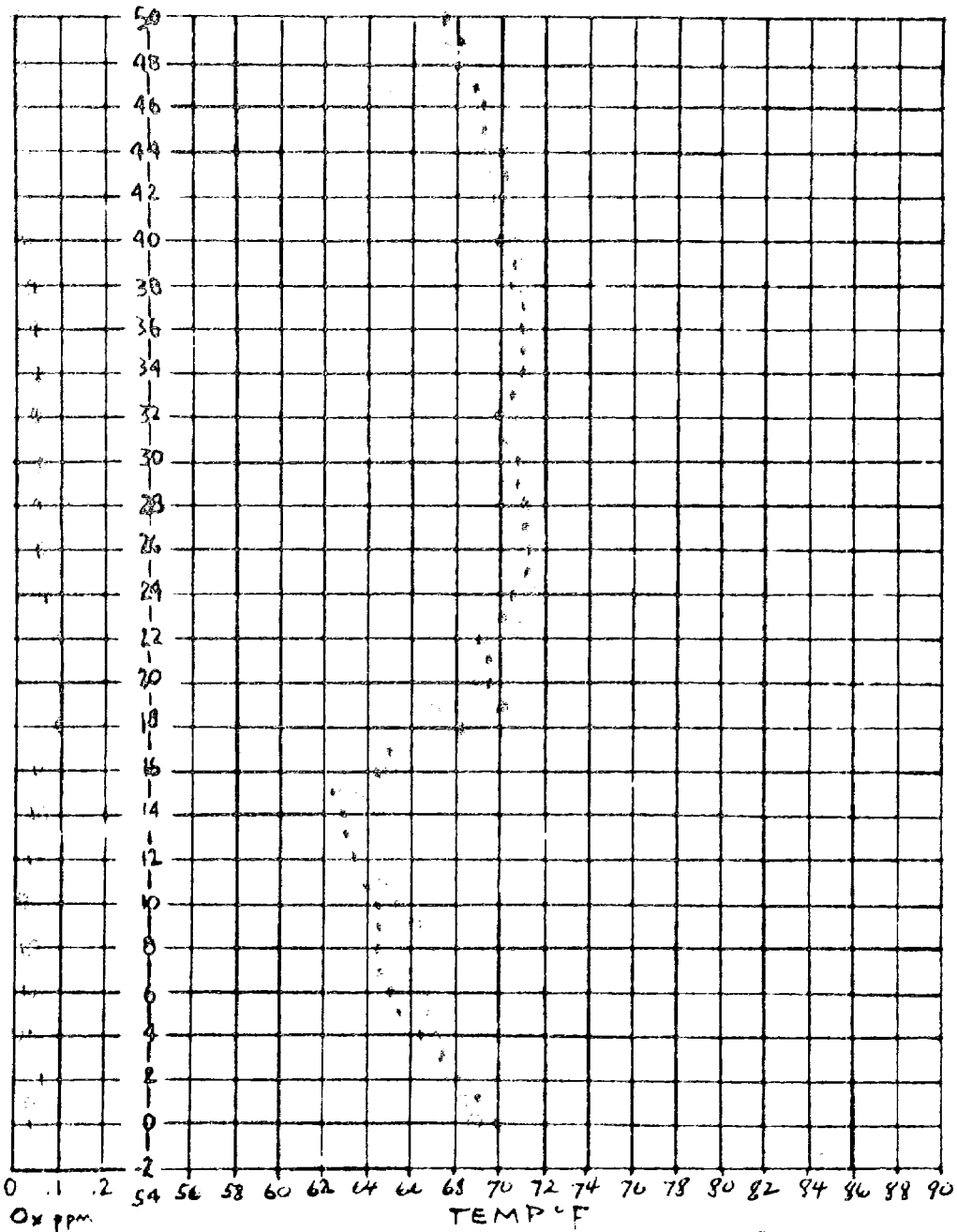


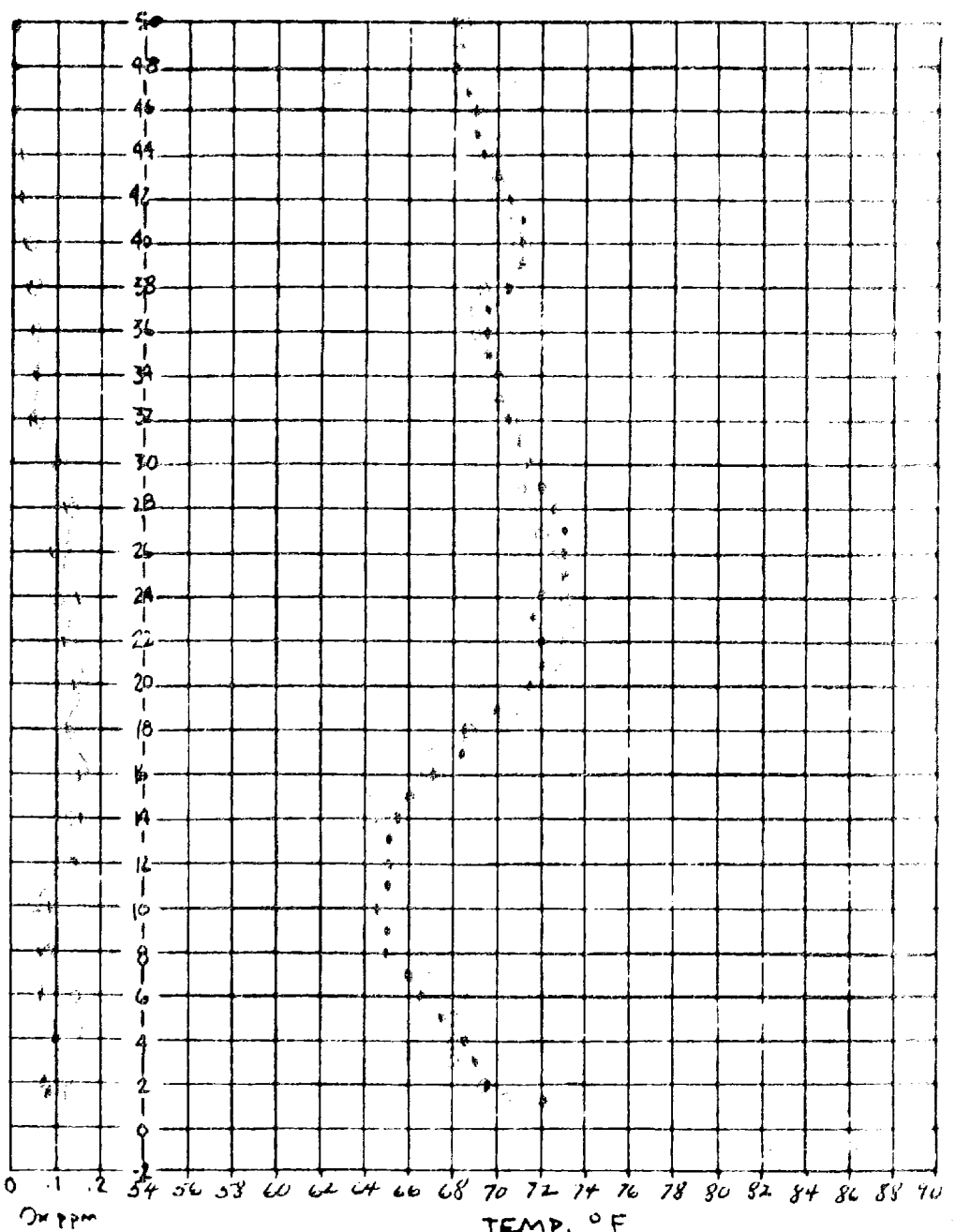
STATION OAK TIME _____ DATE 7/15/75

ALT. 100's OF FEET



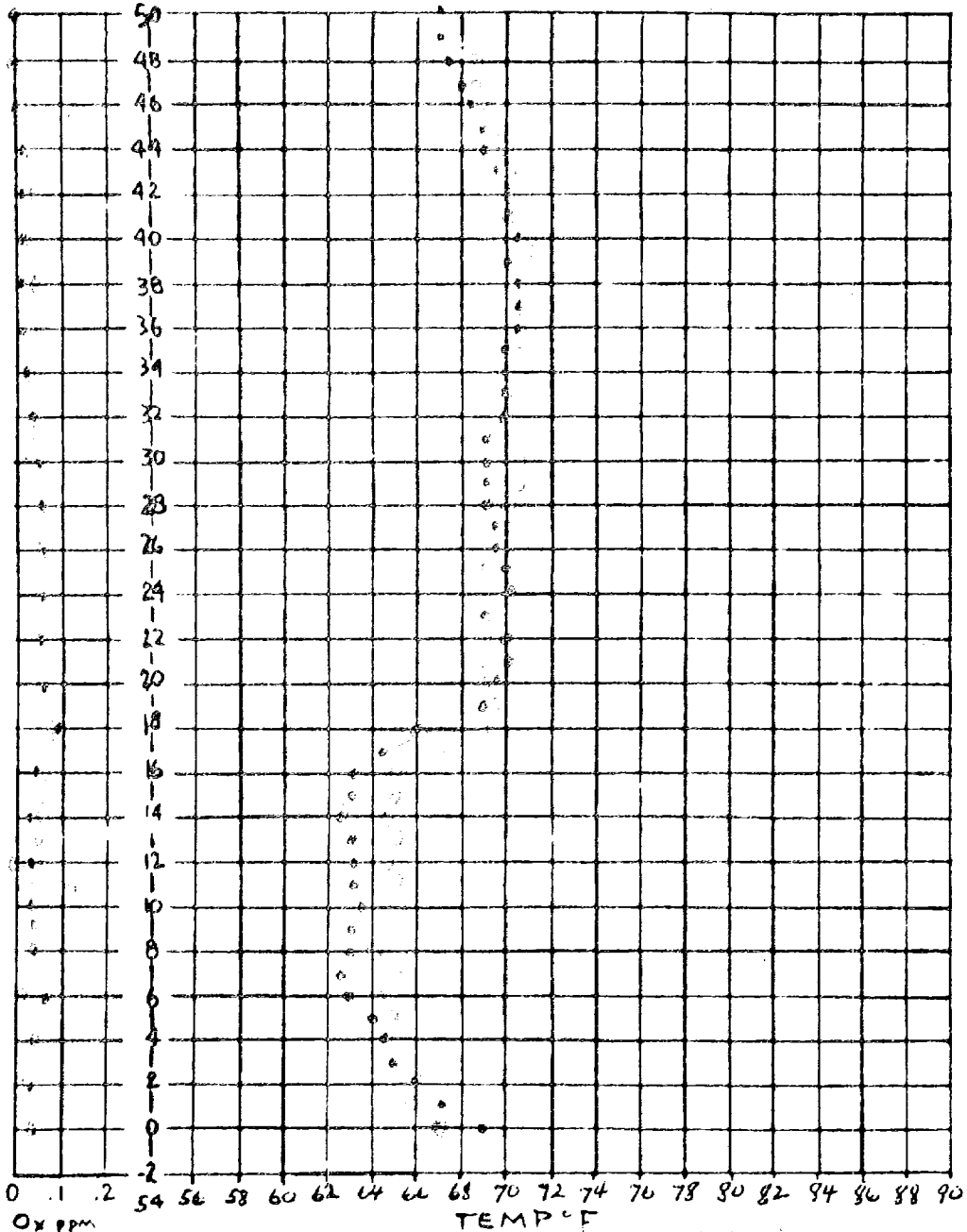
STATION SMO TIME _____

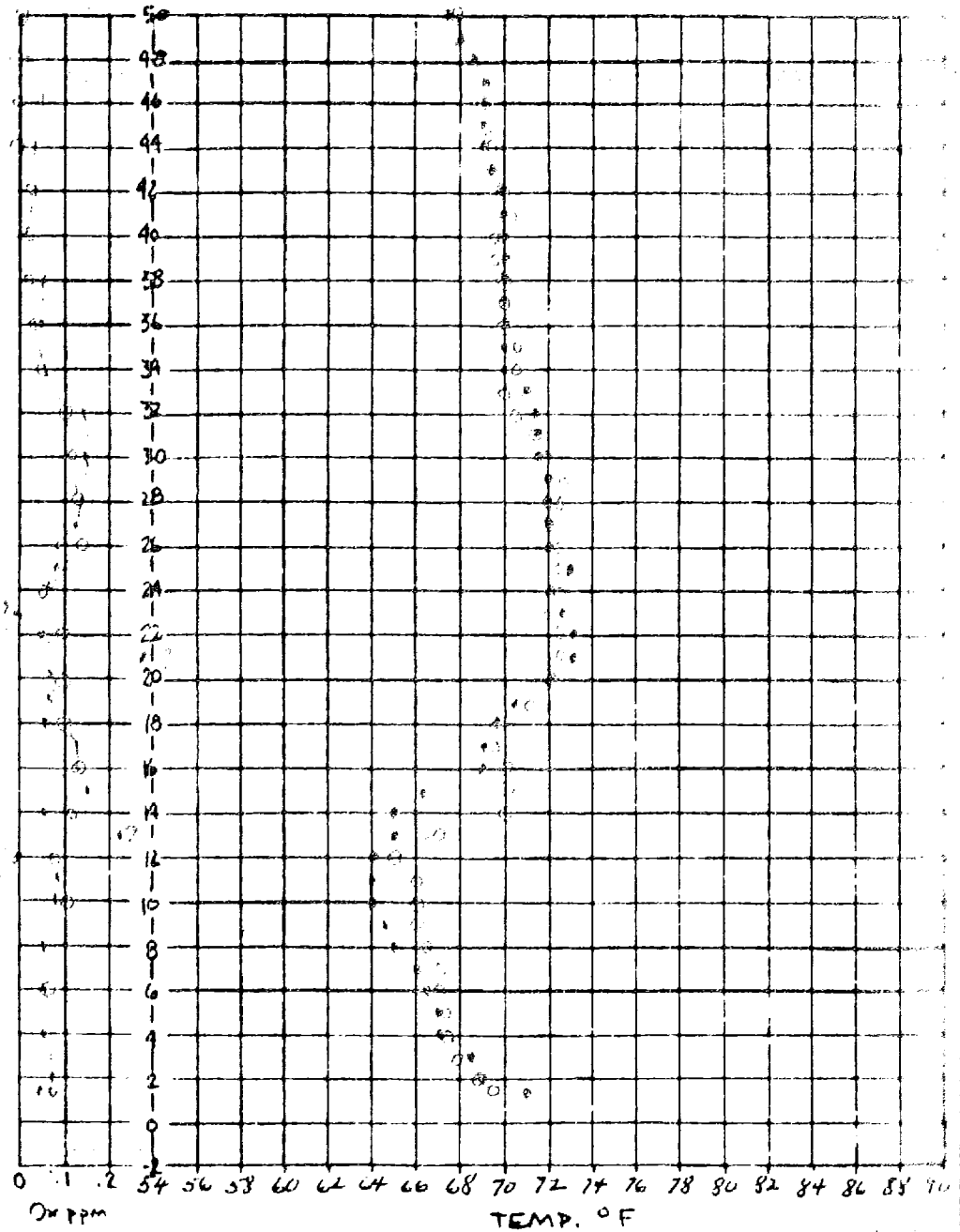




STATION OXR TIME o down 1225-1242 • up 1[illegible]-1[illegible]4 DATE 7/15/75

STATION SMO TIME • up 1210-1223 o down [illegible]

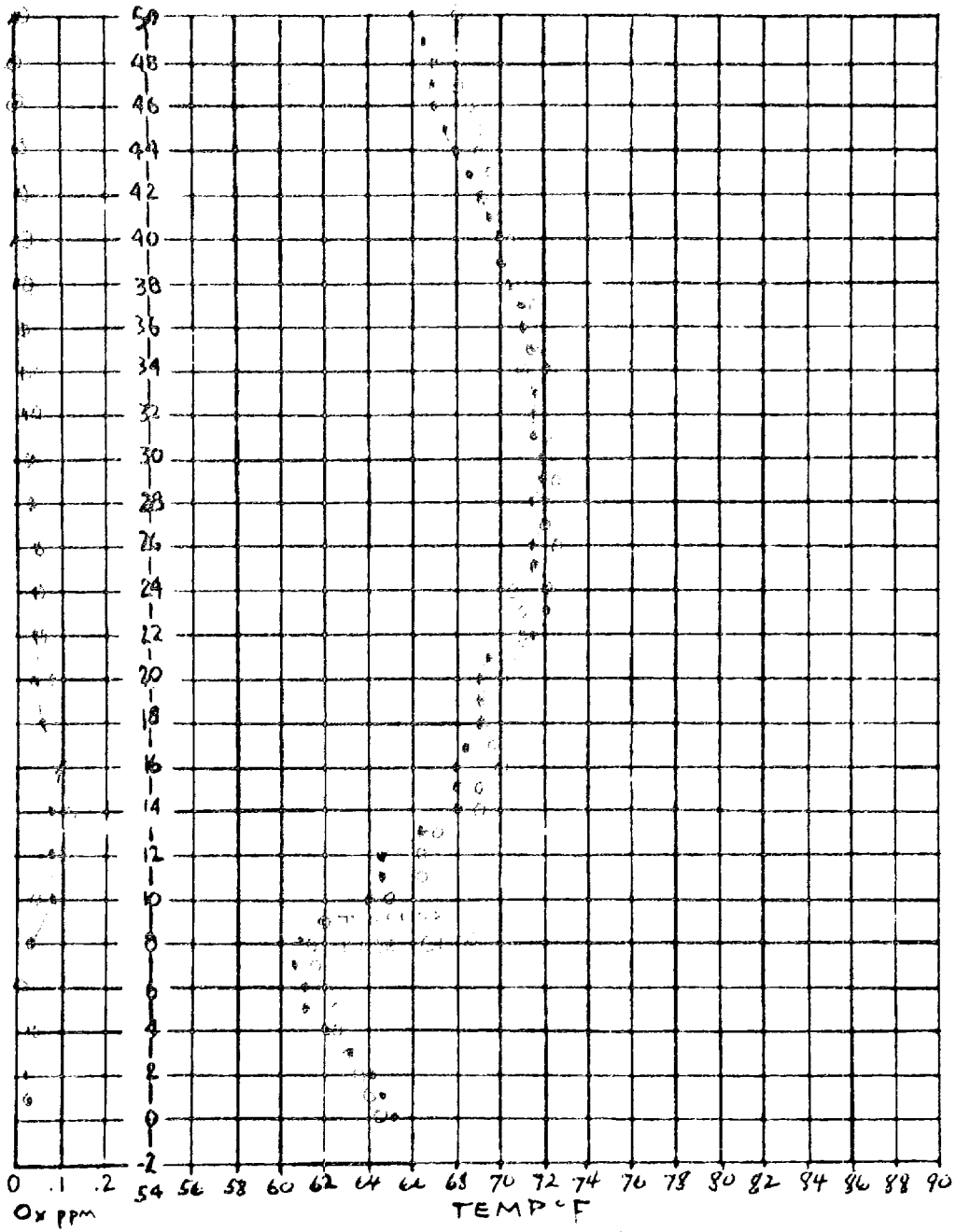




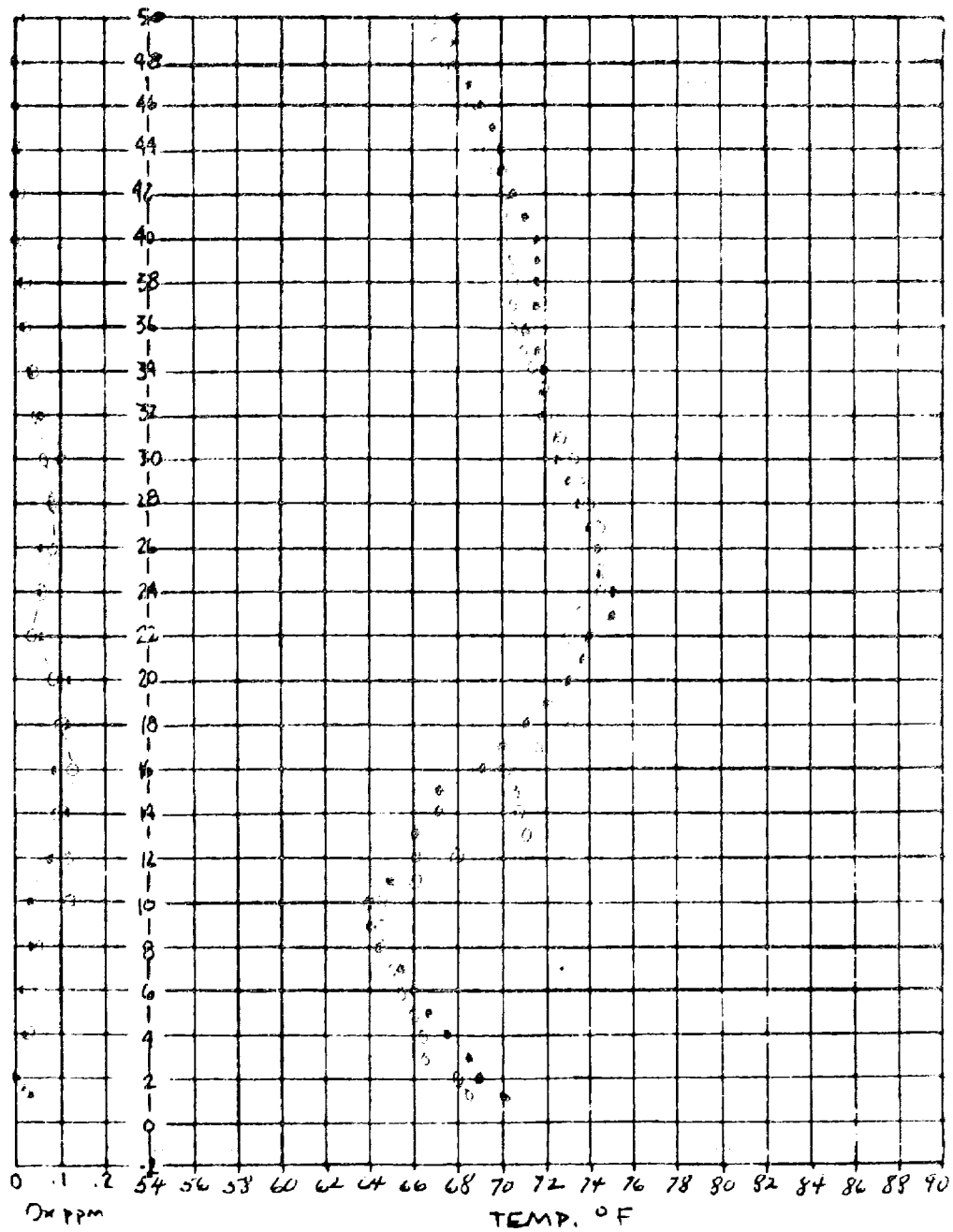
DATE

STATION CKR TIME 1526-1539 ∘ up 1526-1539

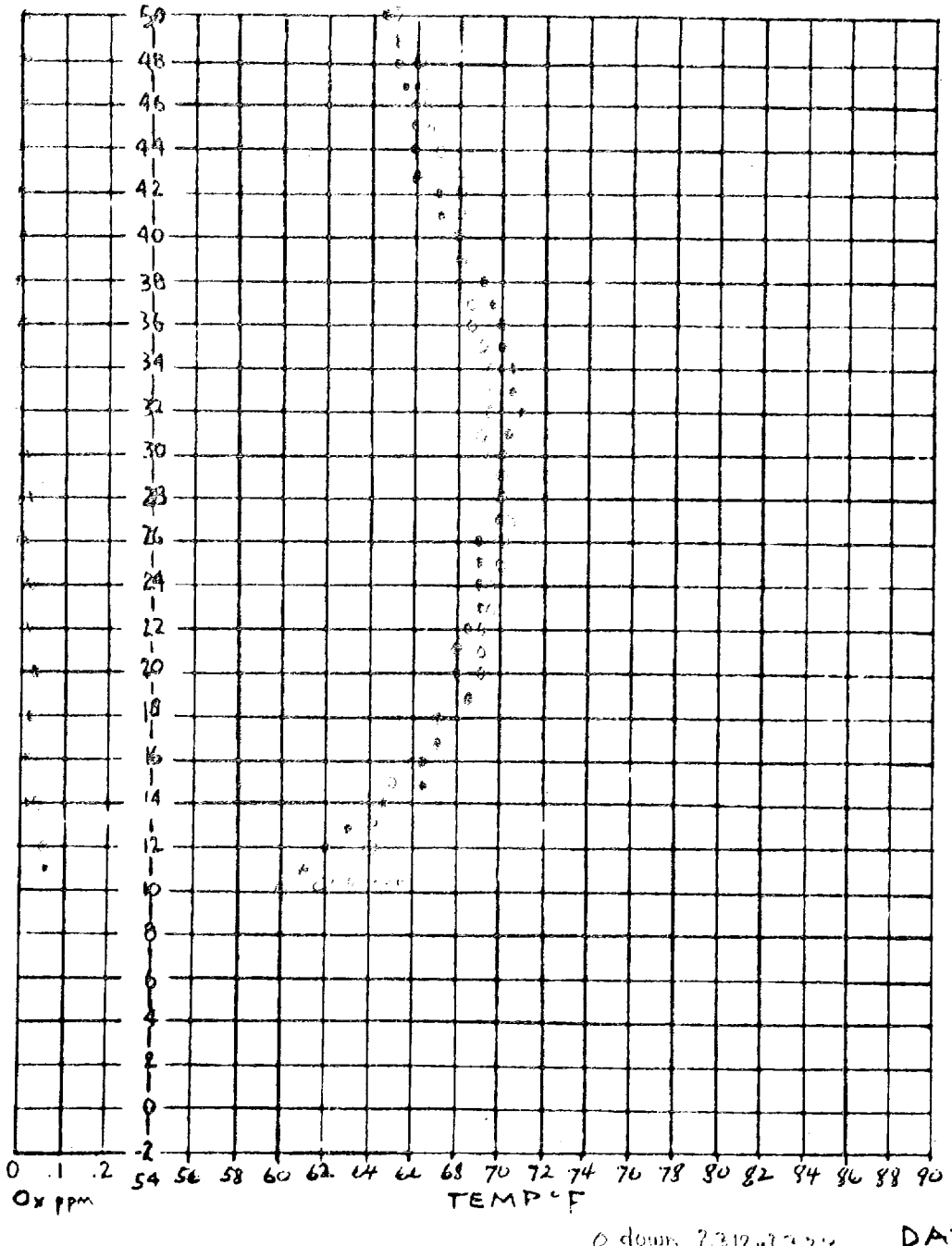
STATION SMD TIME ∘ up 1434-15 ∘ down 1544-15

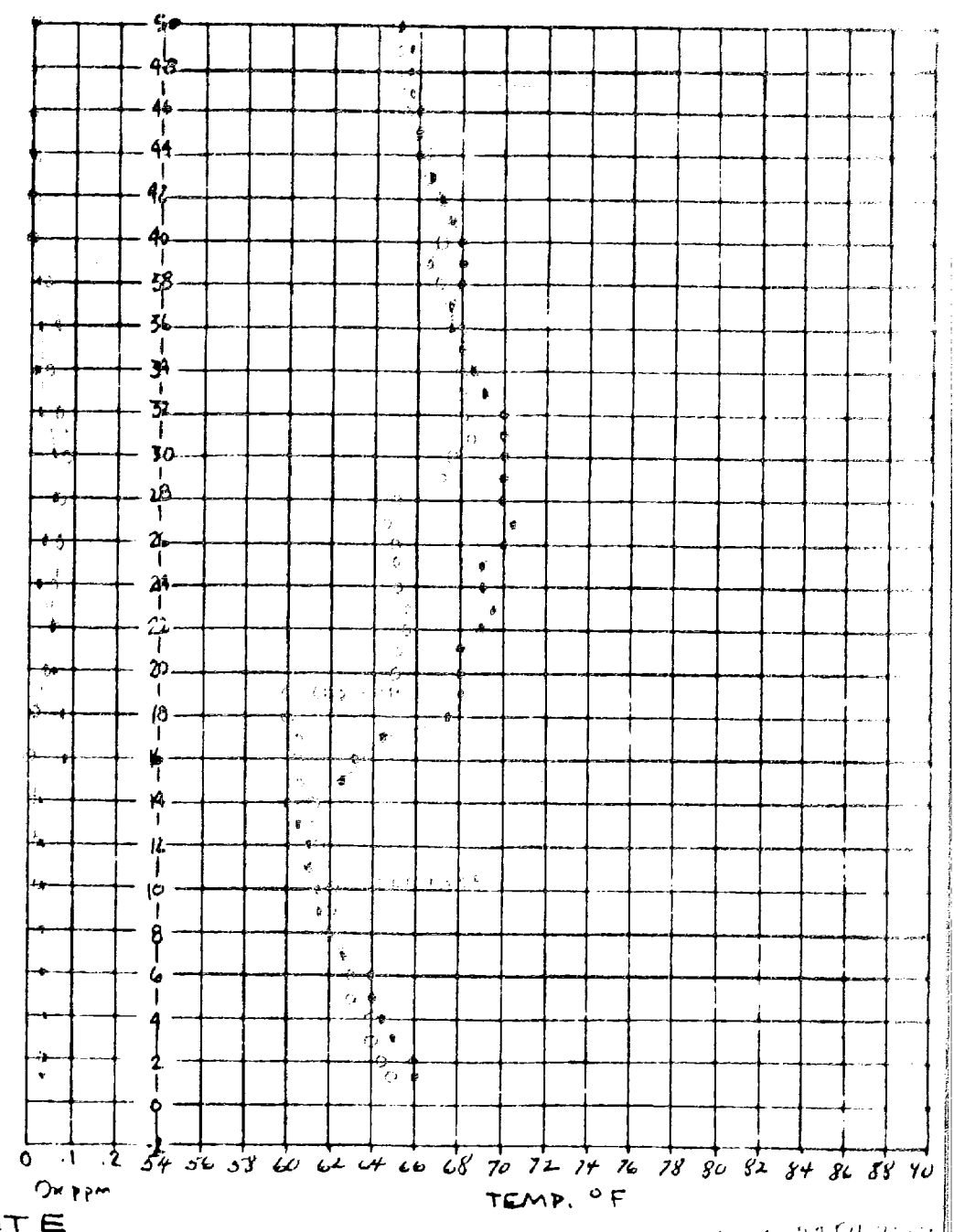


STATION EKR TIME • down 1823-1838 • up 1838-1852 DATE 7/16/75



STATION SMO TIME • up 1807-1821 • down 1825-1839

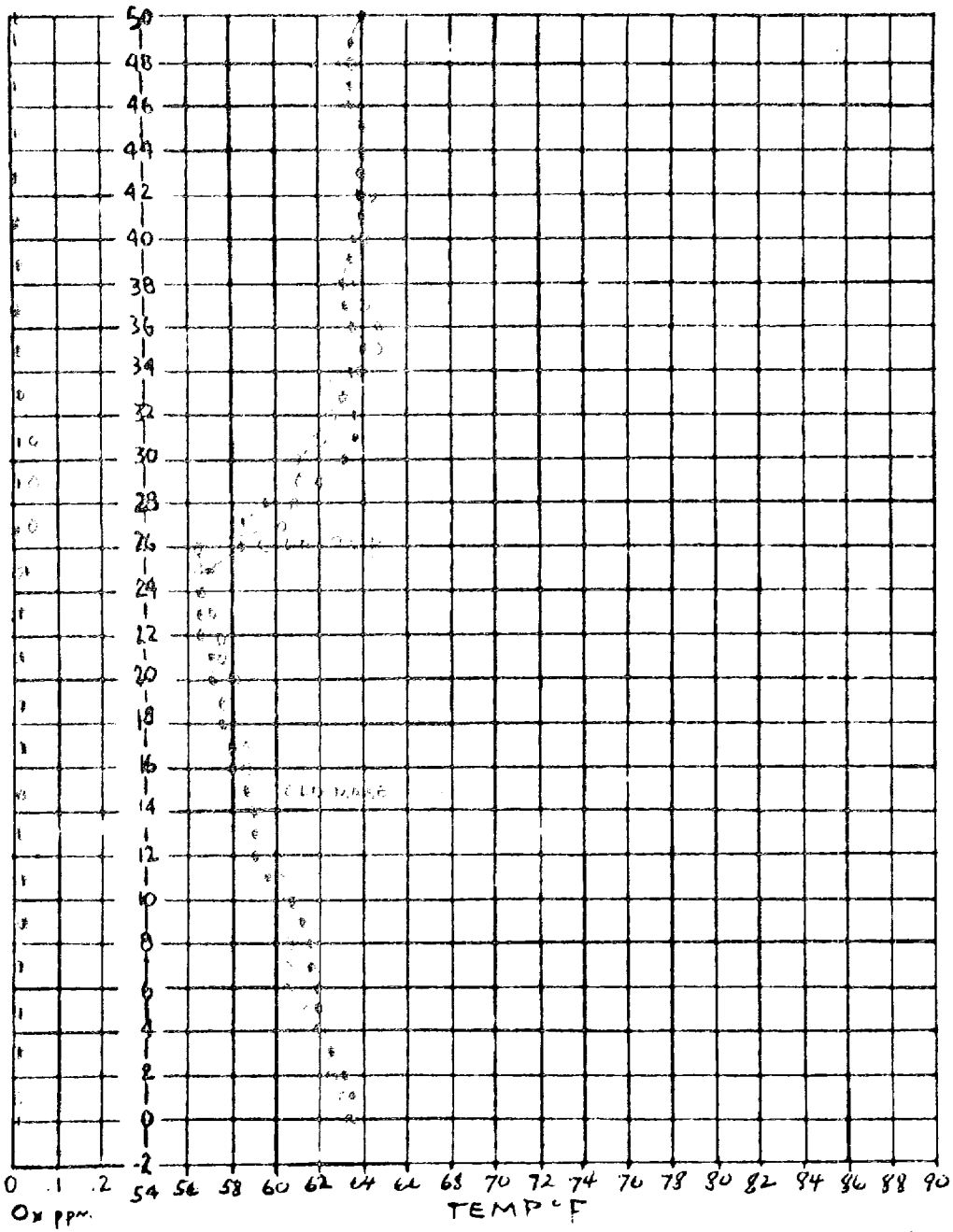


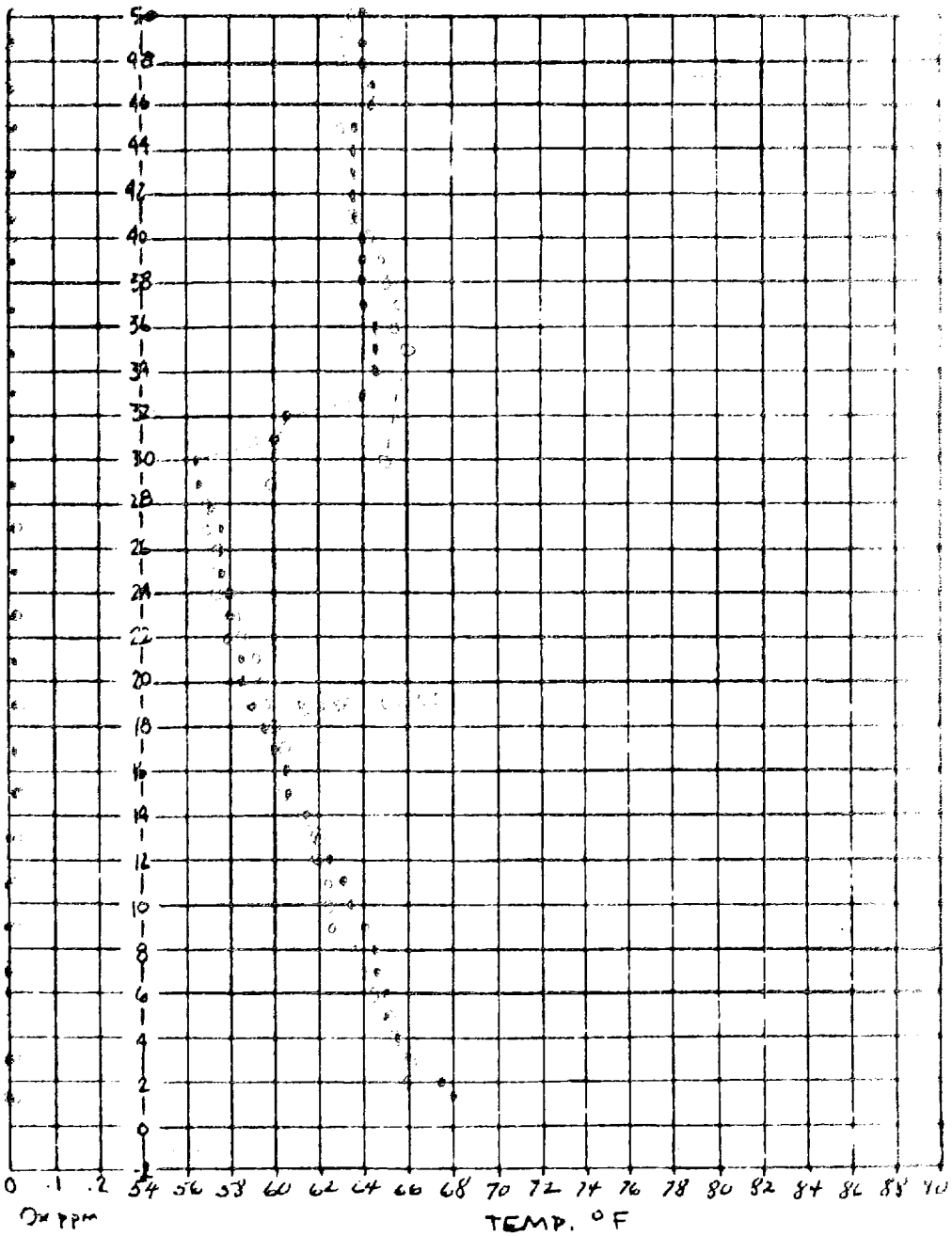


STATION OXR TIME o down 2312-2323 • up 2323-2338

DATE 7/16/75

STATION SMO TIME • up 2254-2307 o down 2345-0010

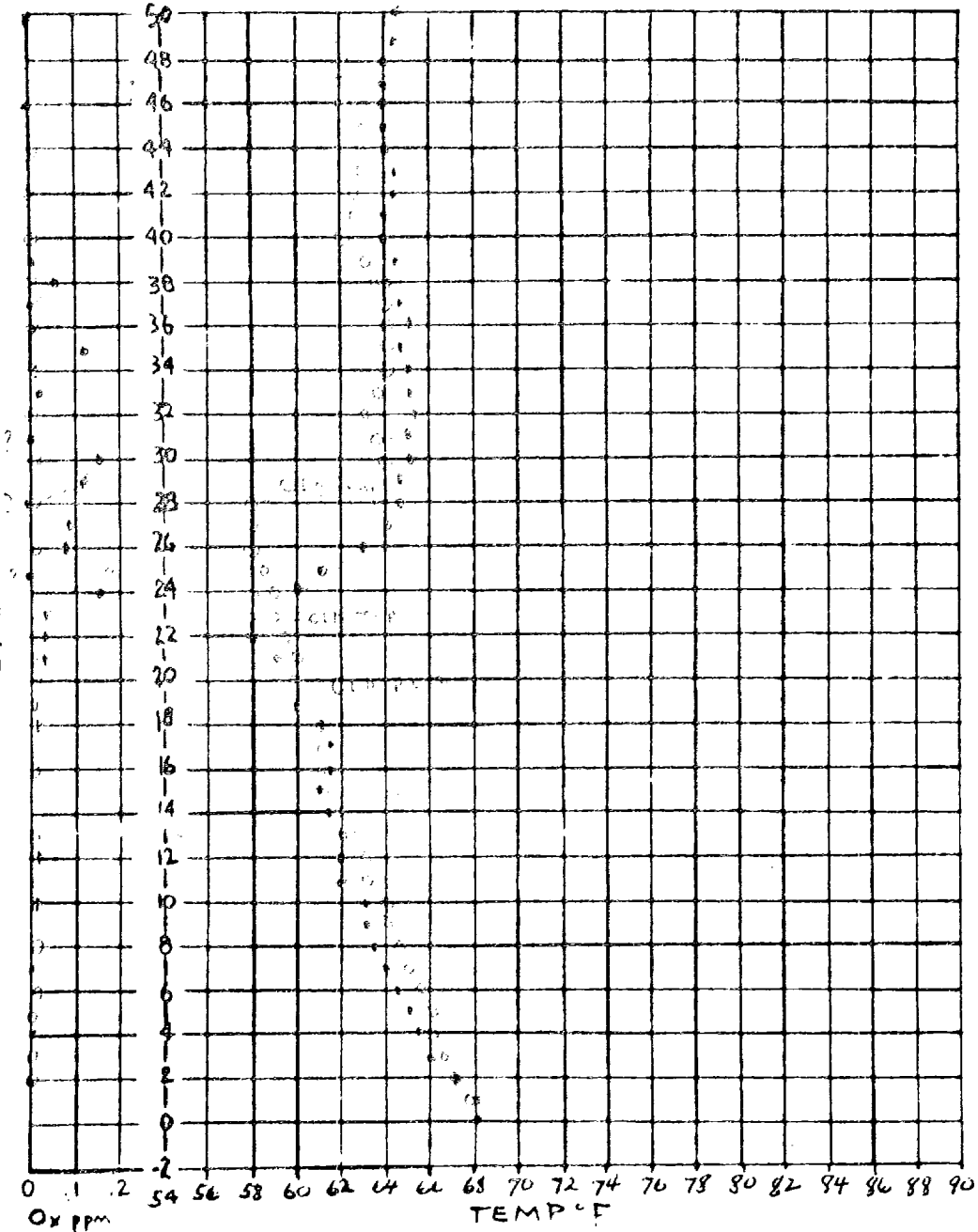


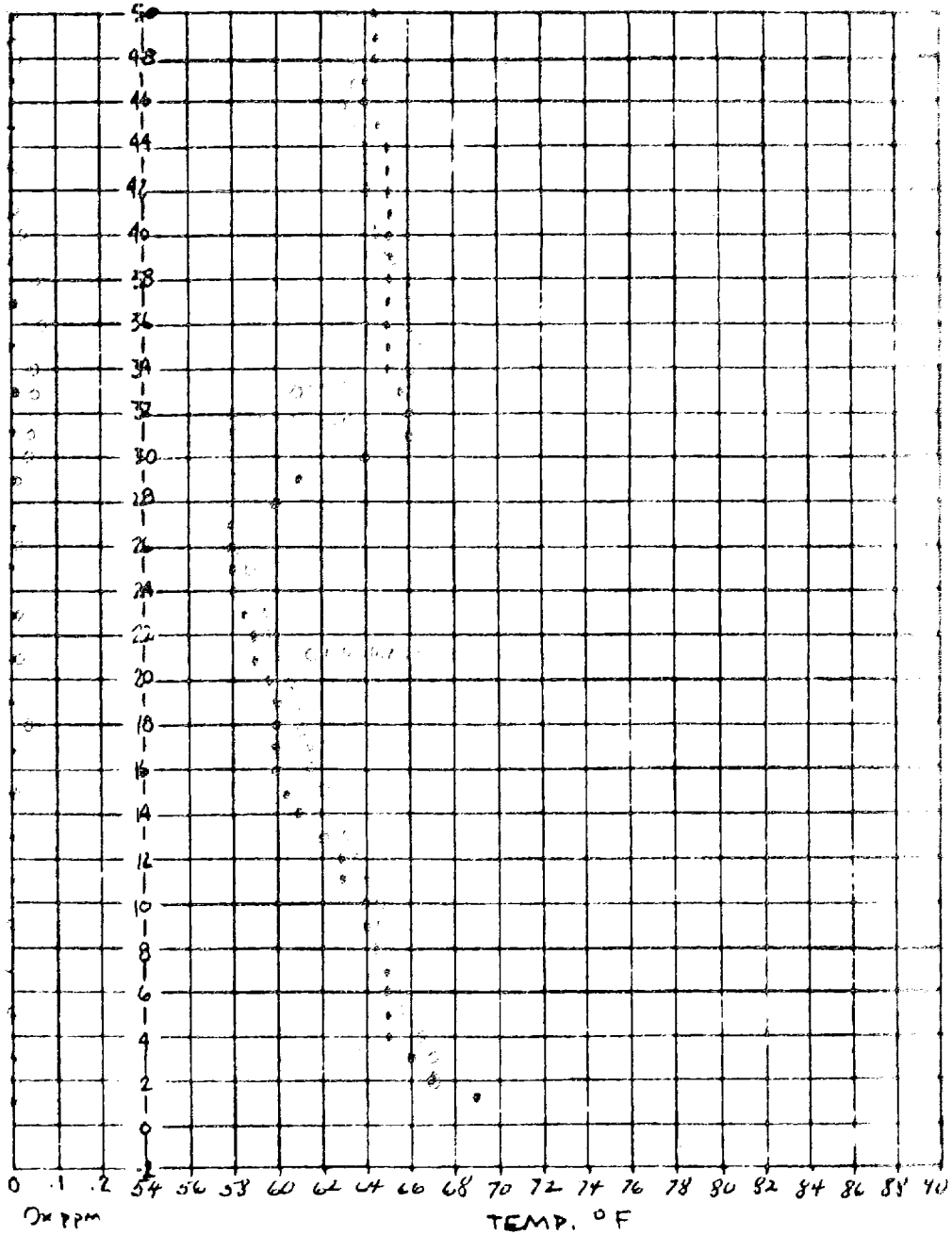


C-42

STATION OXR TIME • down 0629-0636 • up 0636-0649 DATE 7/11/78

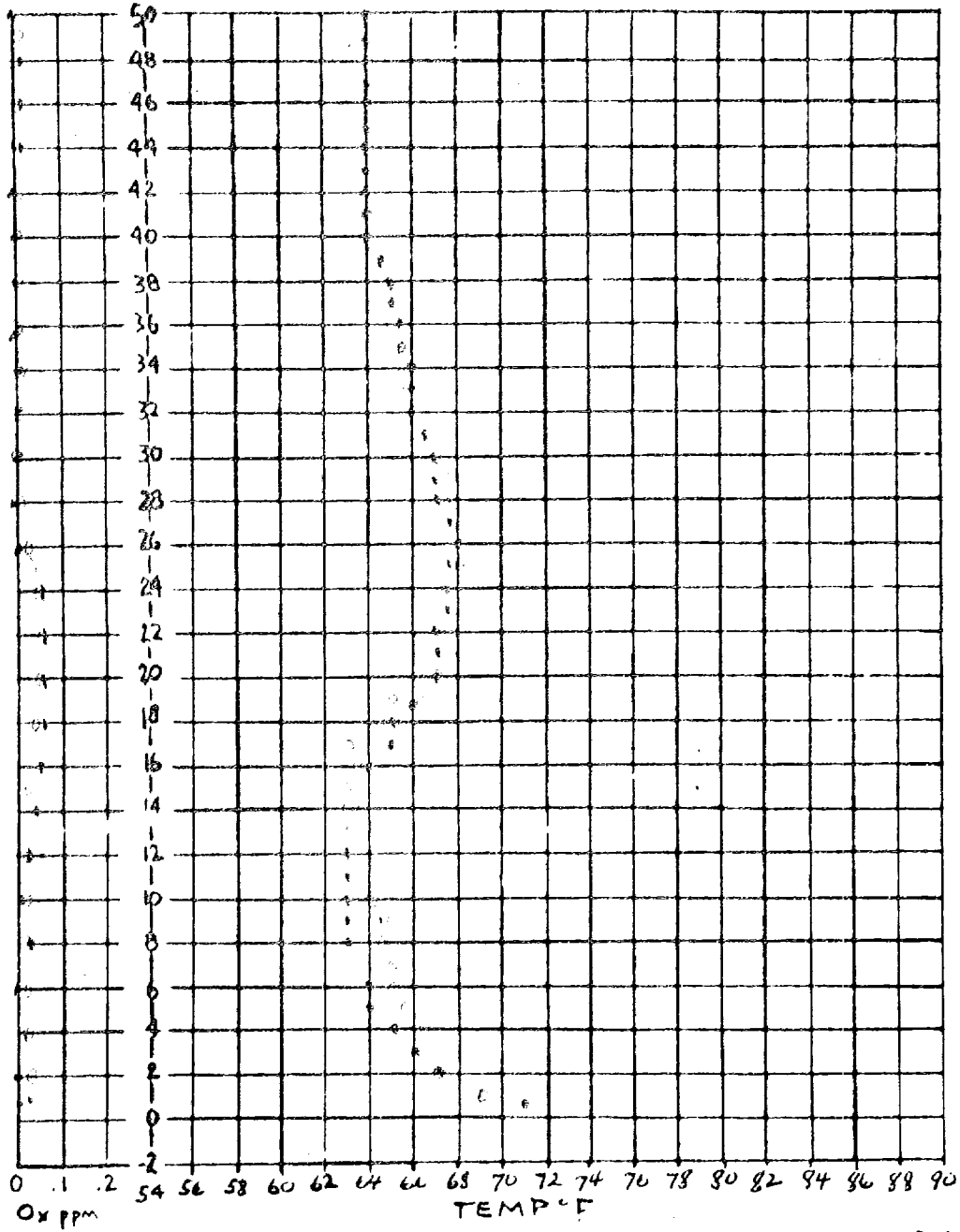
STATION SMO TIME • up 0606-0611 • down 0704-0718



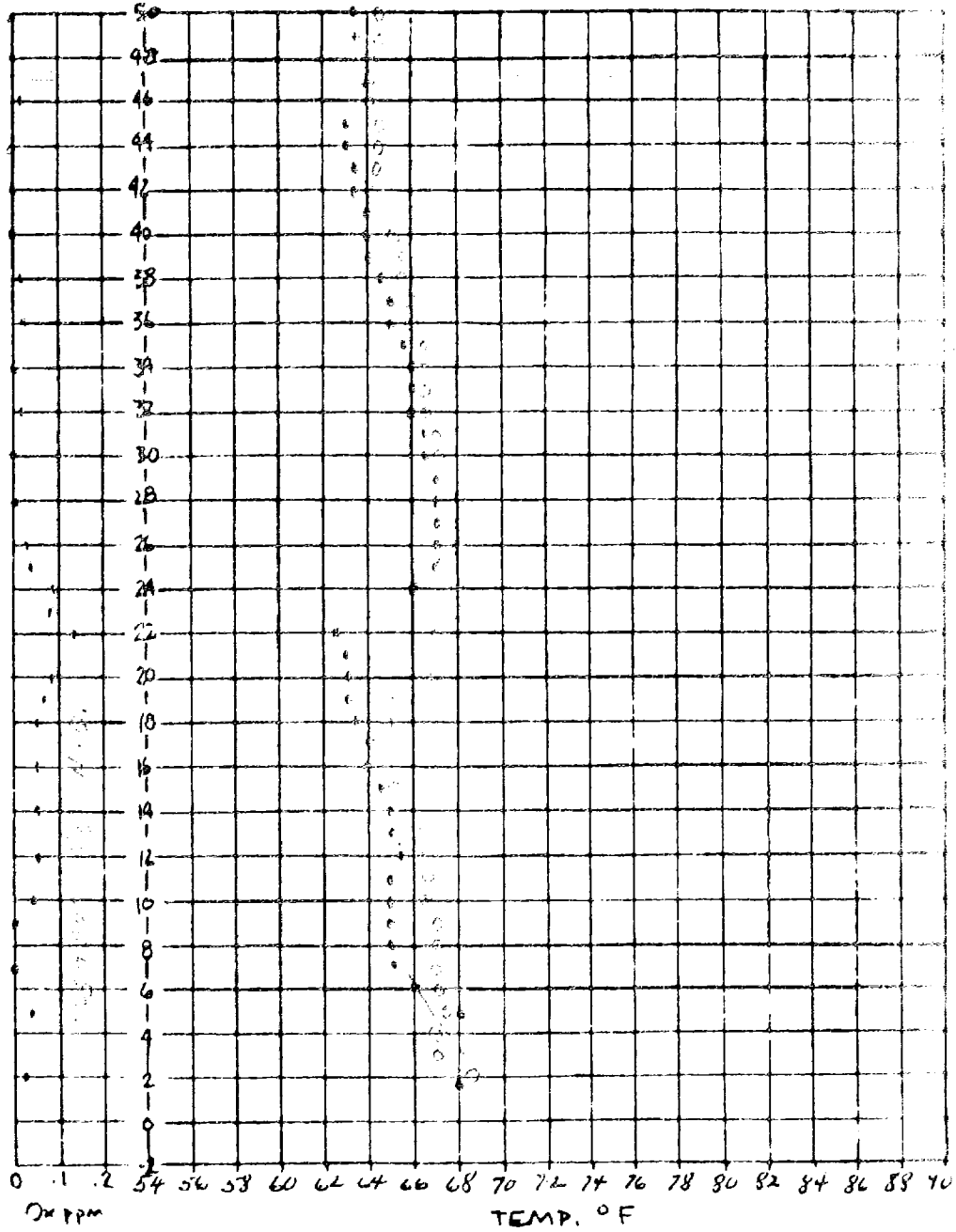


STATION OXR TIME o down 0942-0953 • up 0953-1007 DATE 7/17/75

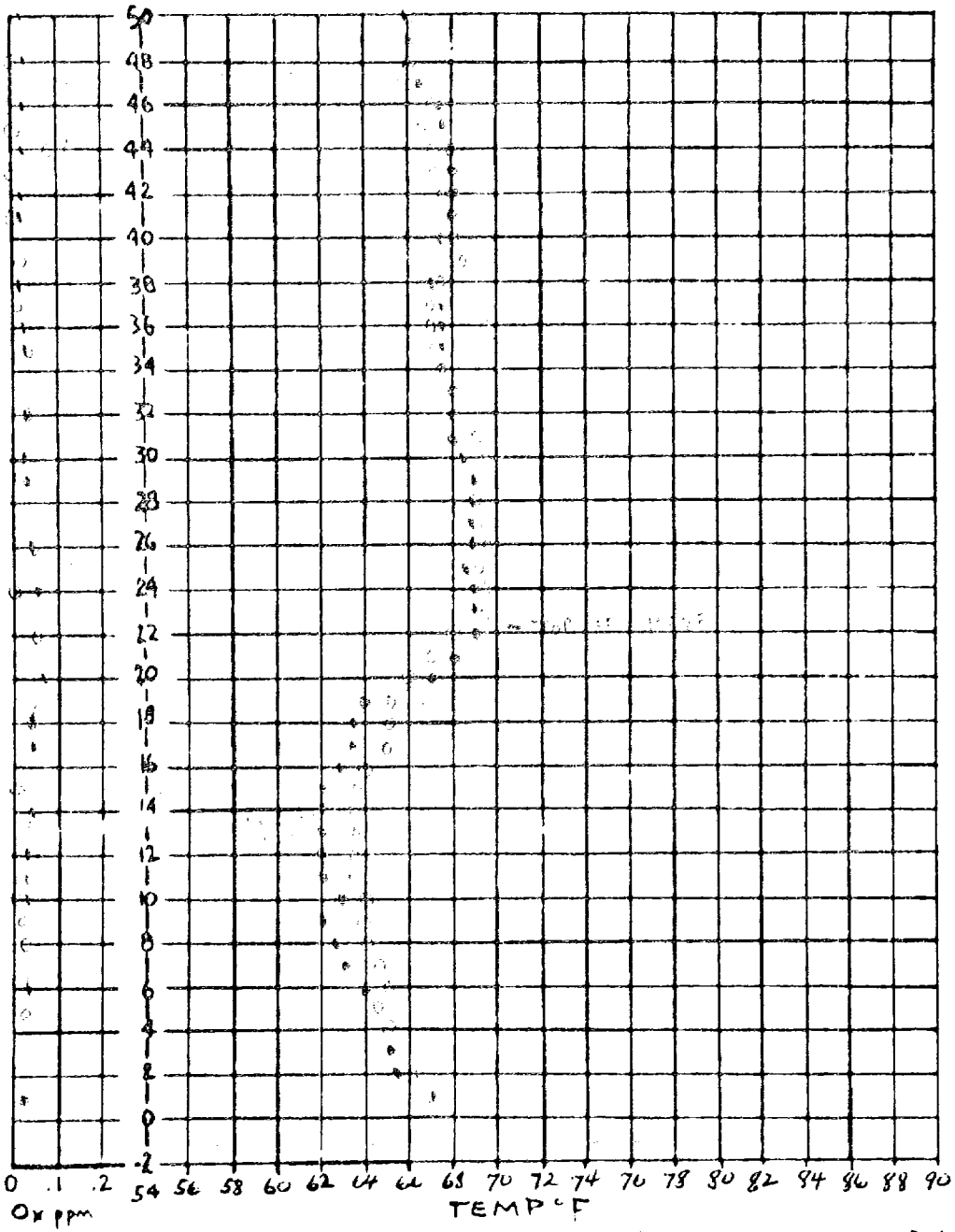
STATION SMO TIME • up 0920-0941 o down 1003-1008

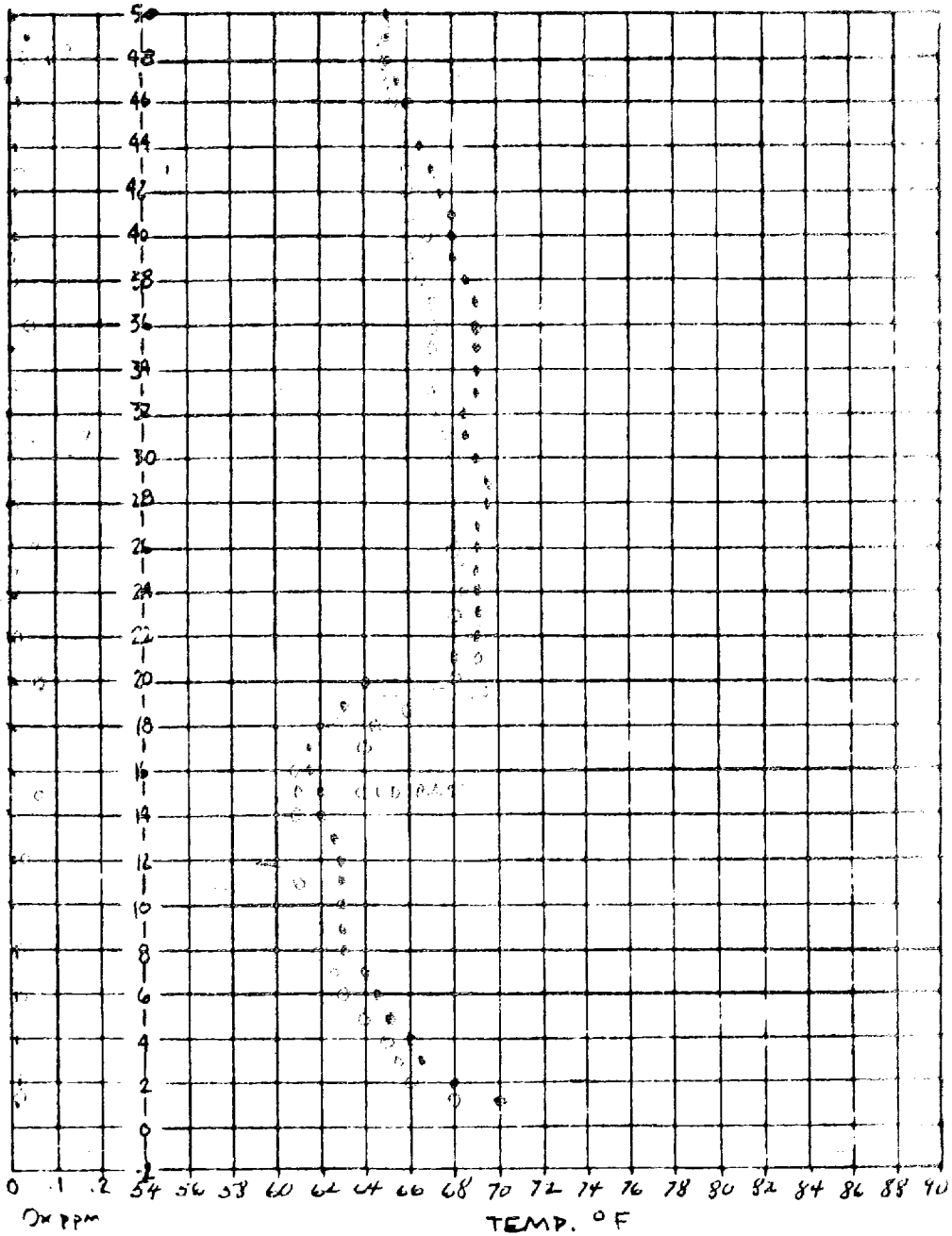


STATION 2XB TIME ↓ down 1224-1237 ↑ up 1237-1252 DATE 7/17/15



STATION SMO TIME ↑ up 1207-1221 ↓ down [illegible]

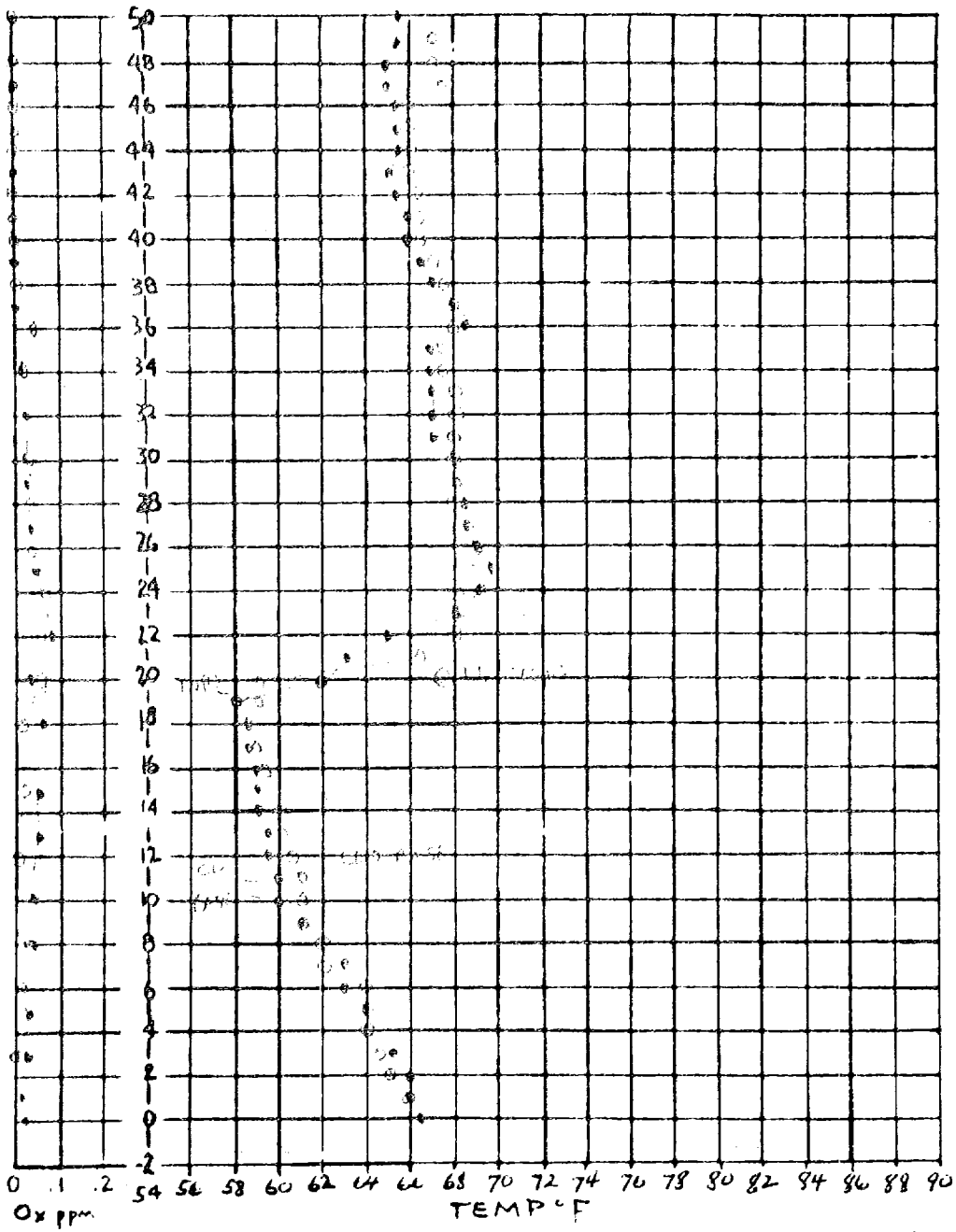


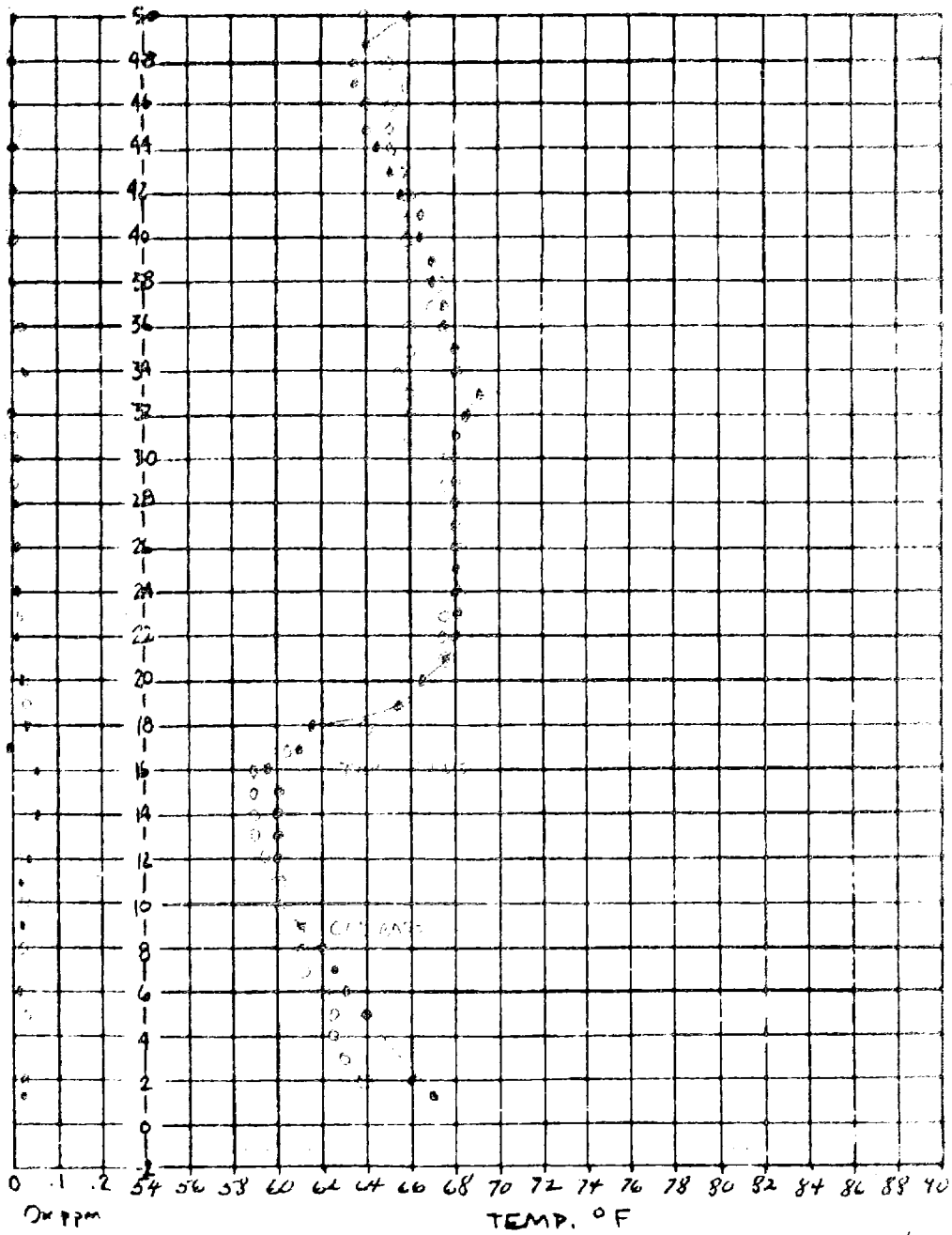


C-45

STATION OXR TIME • up 1602 - 1620 o down 1547-1602 DATE 7/17/76

STATION SMO TIME • up 1531-1545 o down 1632-1641

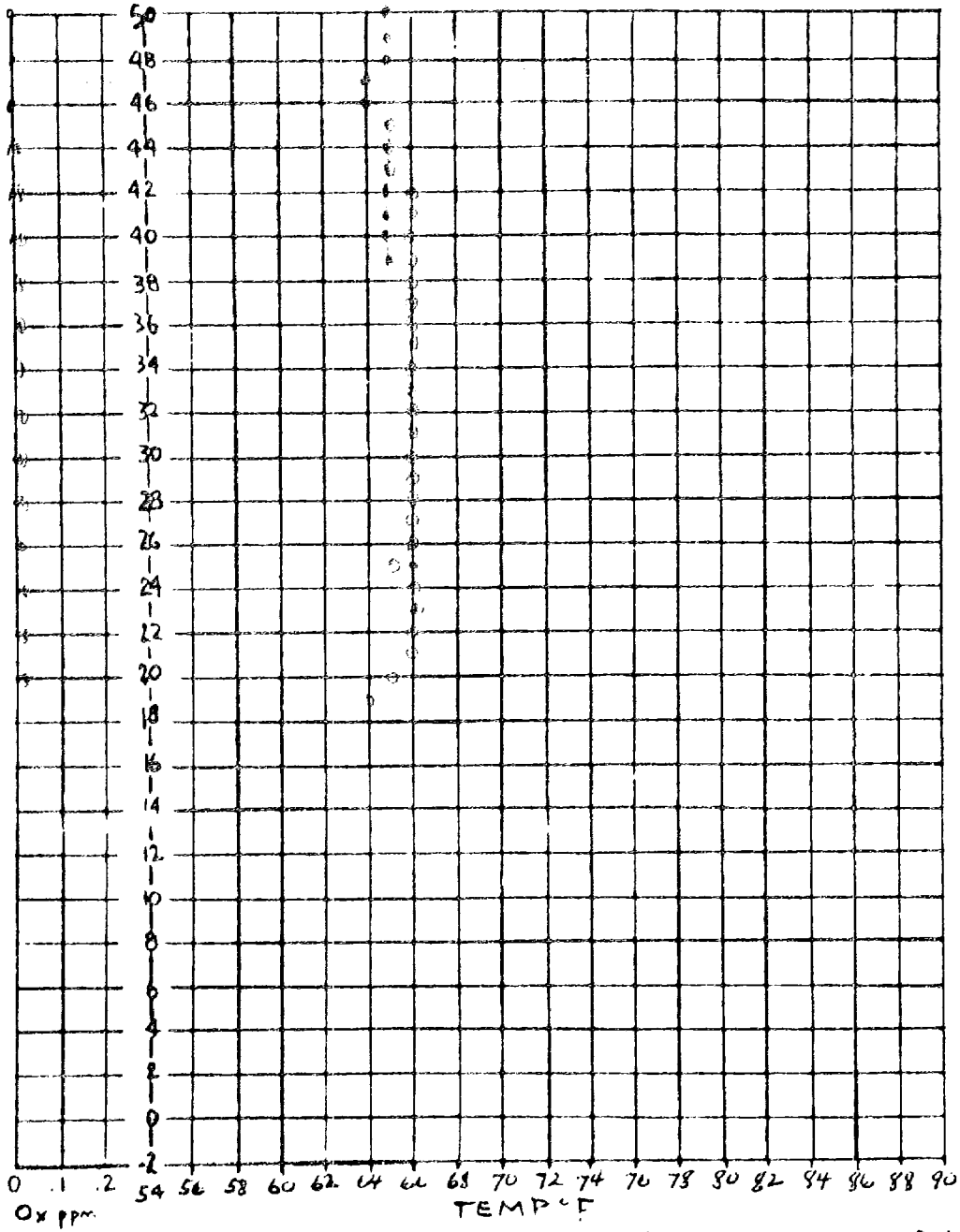


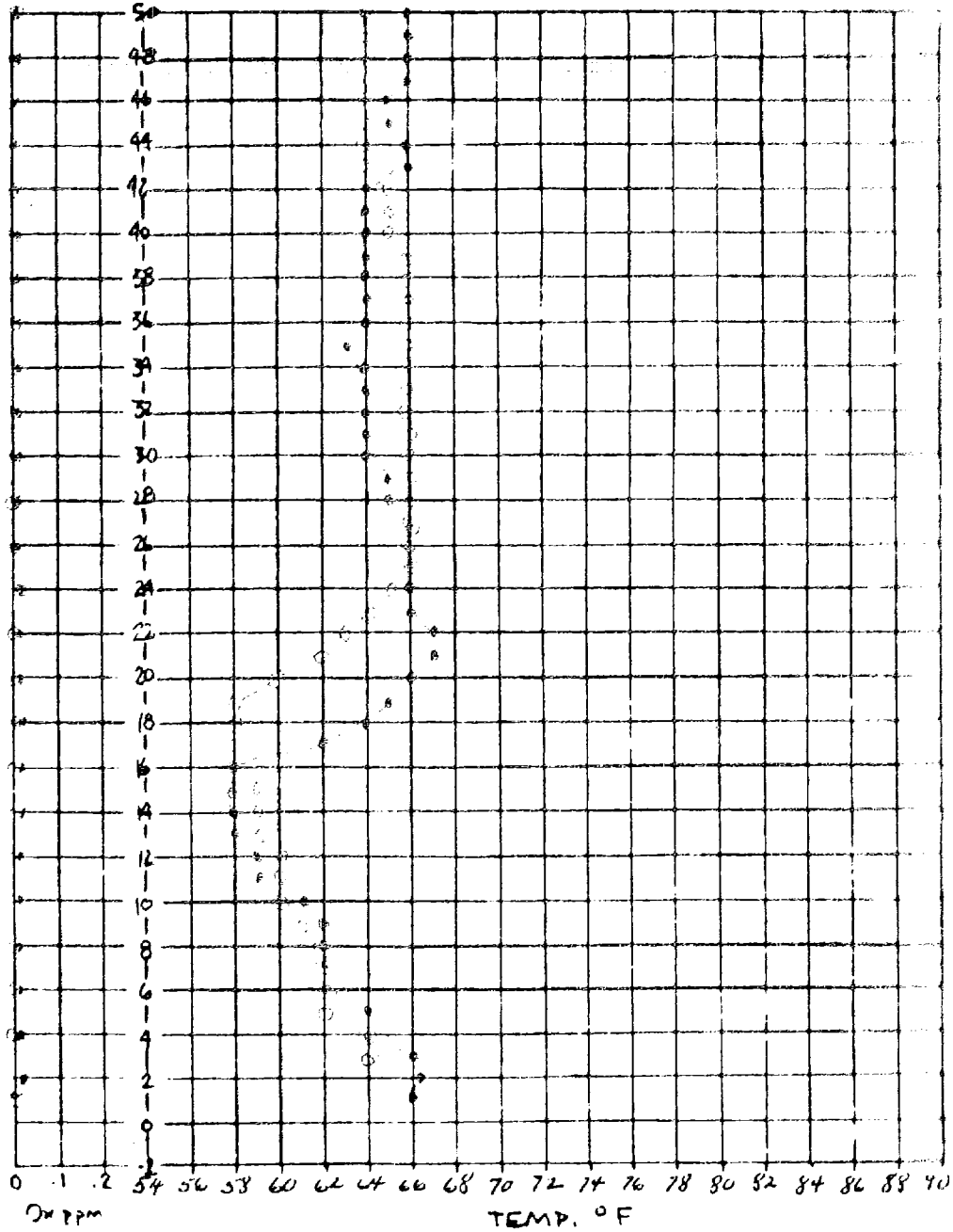


C-46

STATION CX2 TIME • down 1815-1830 • up 1830-1842 DATE 7/7/75

STATION SMD TIME • up 1756-1813 • down 1845-1[illegible]





STATION OXR TIME ____ DATE 7/17/75

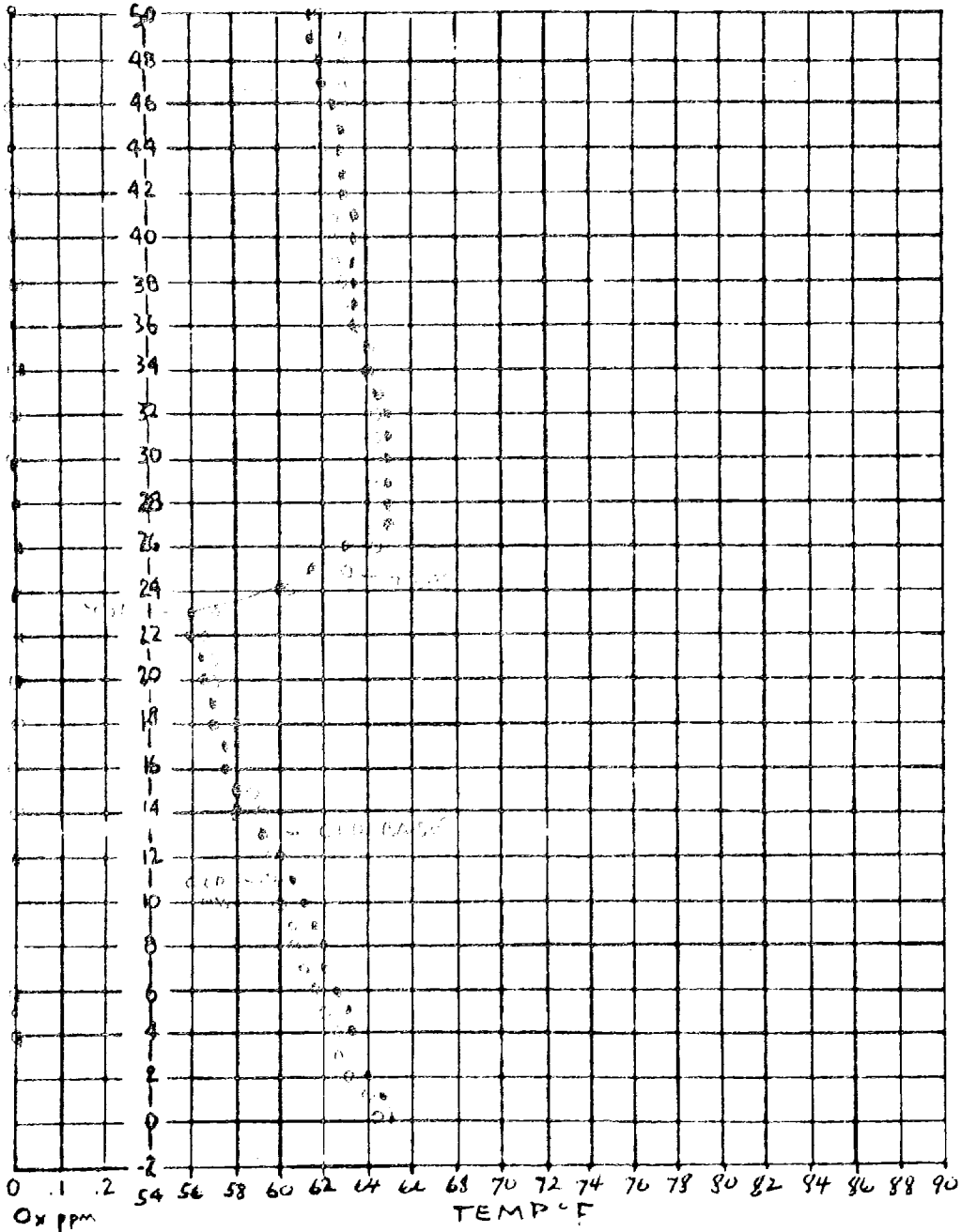
• down 2340-2345

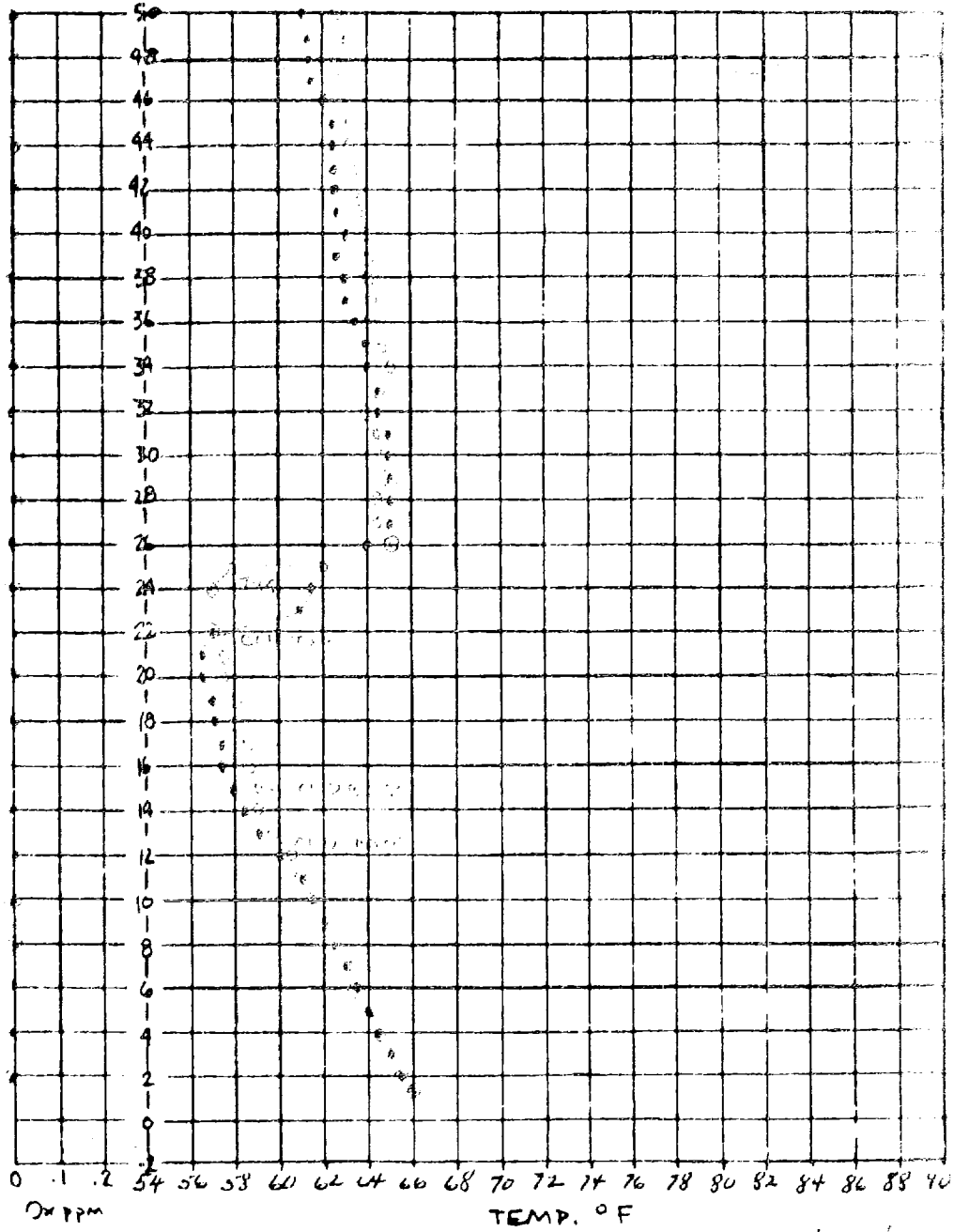
• up 2345-2355

STATION SMO TIME ____

• up 2322-2334

• down 0001-0018





o down 0641-0654

STATION OXR TIME

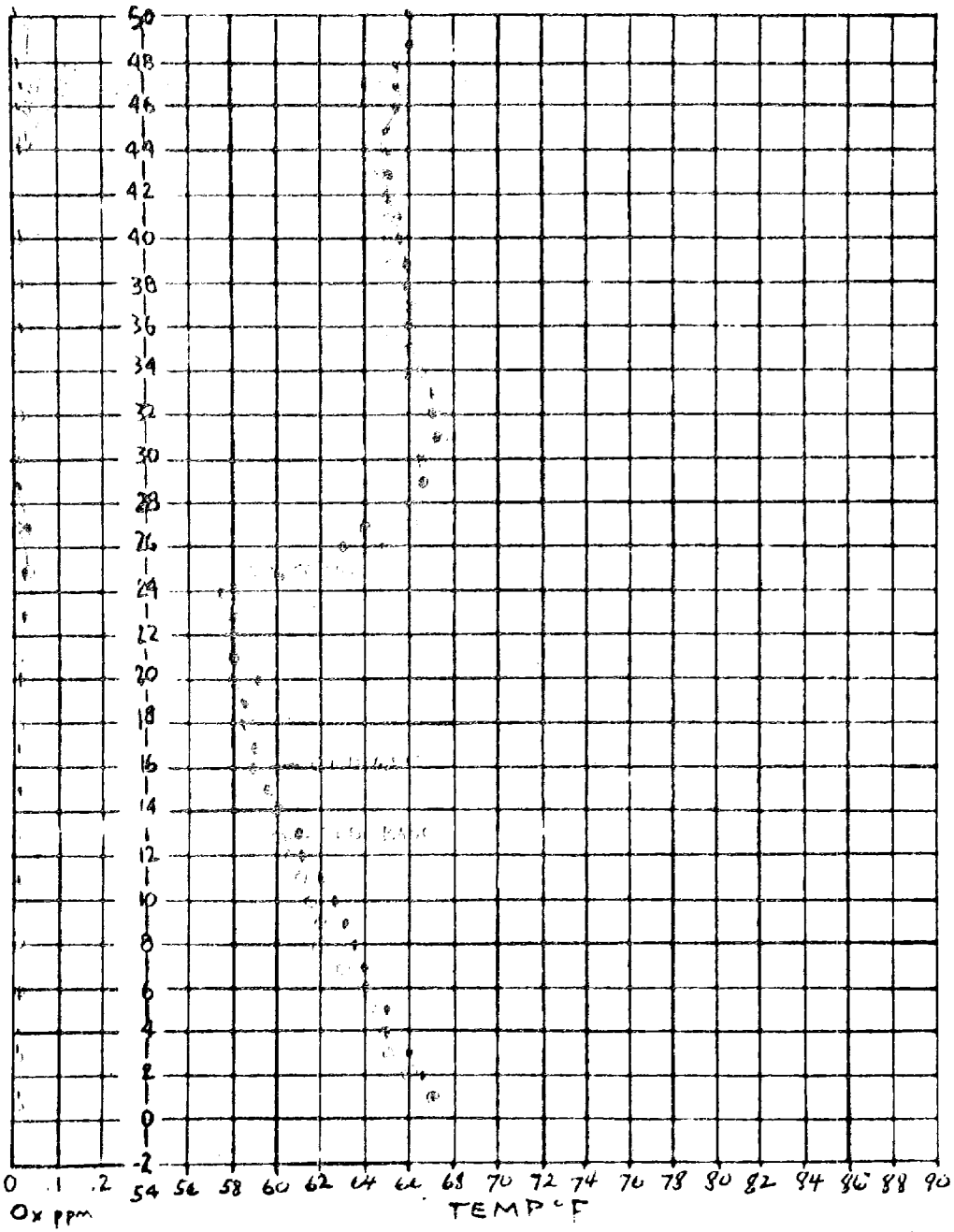
• up 0654-0705

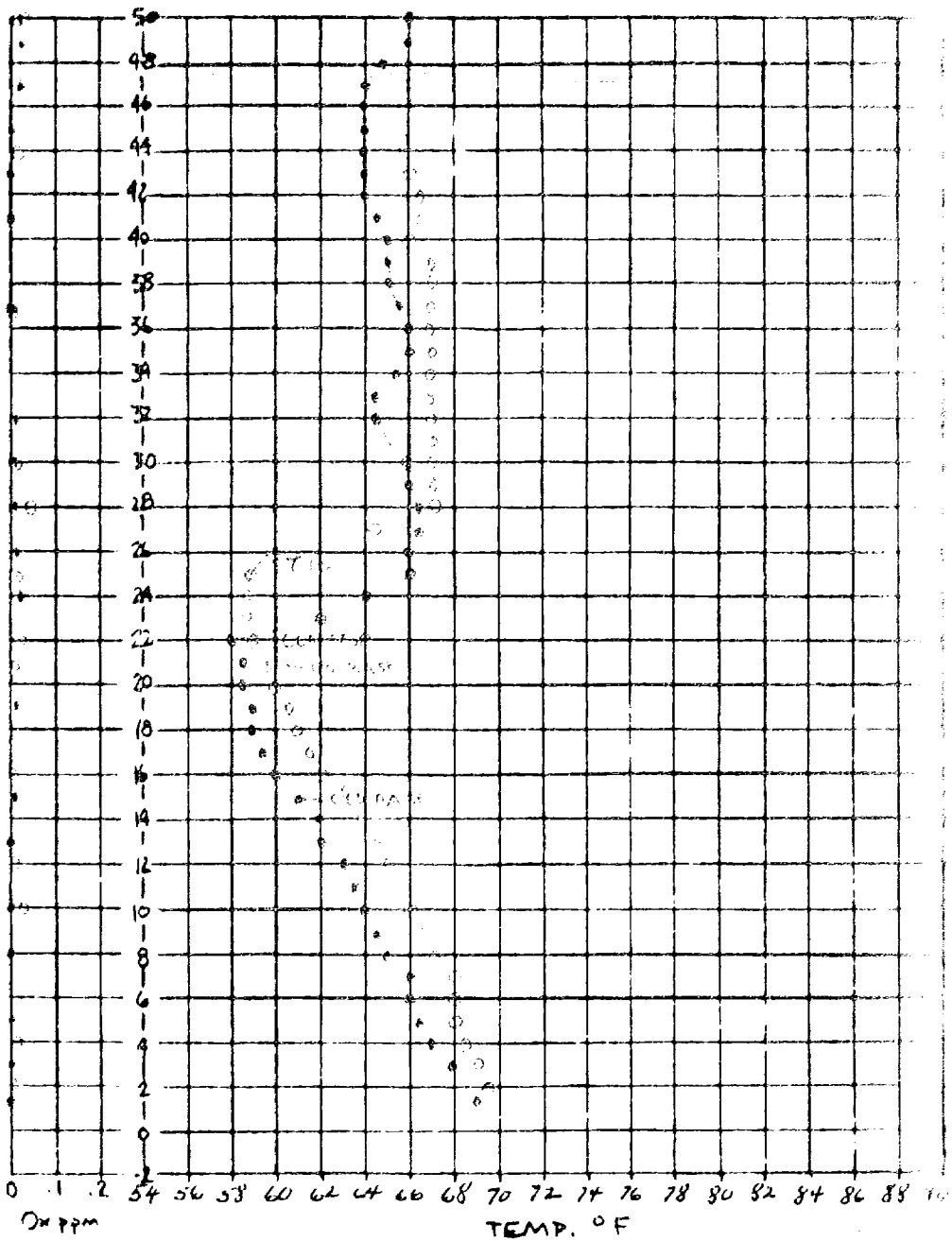
DATE 7/15/75

STATION SMD TIME

• up 0670-0[illegible]

o down 0711-0740

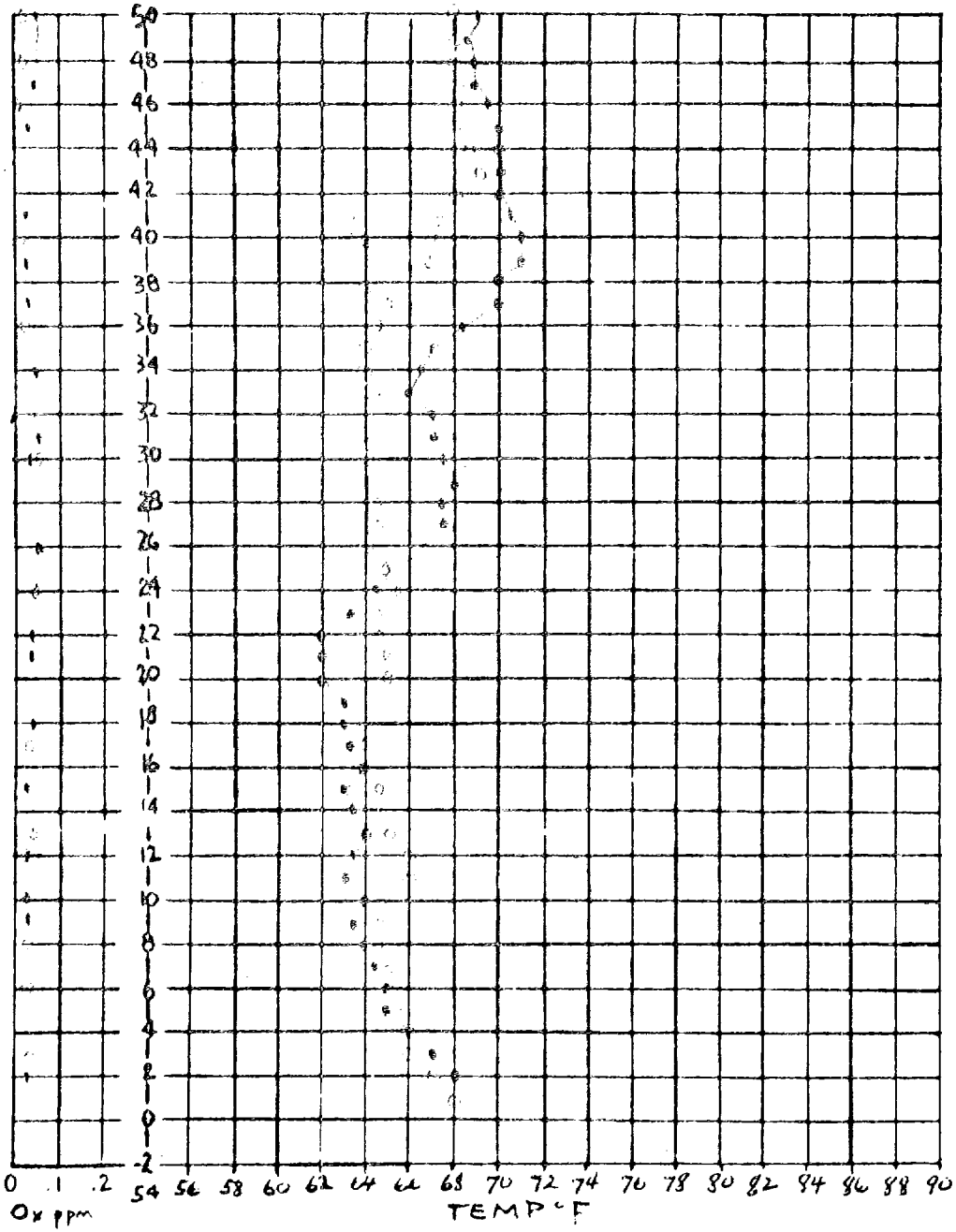


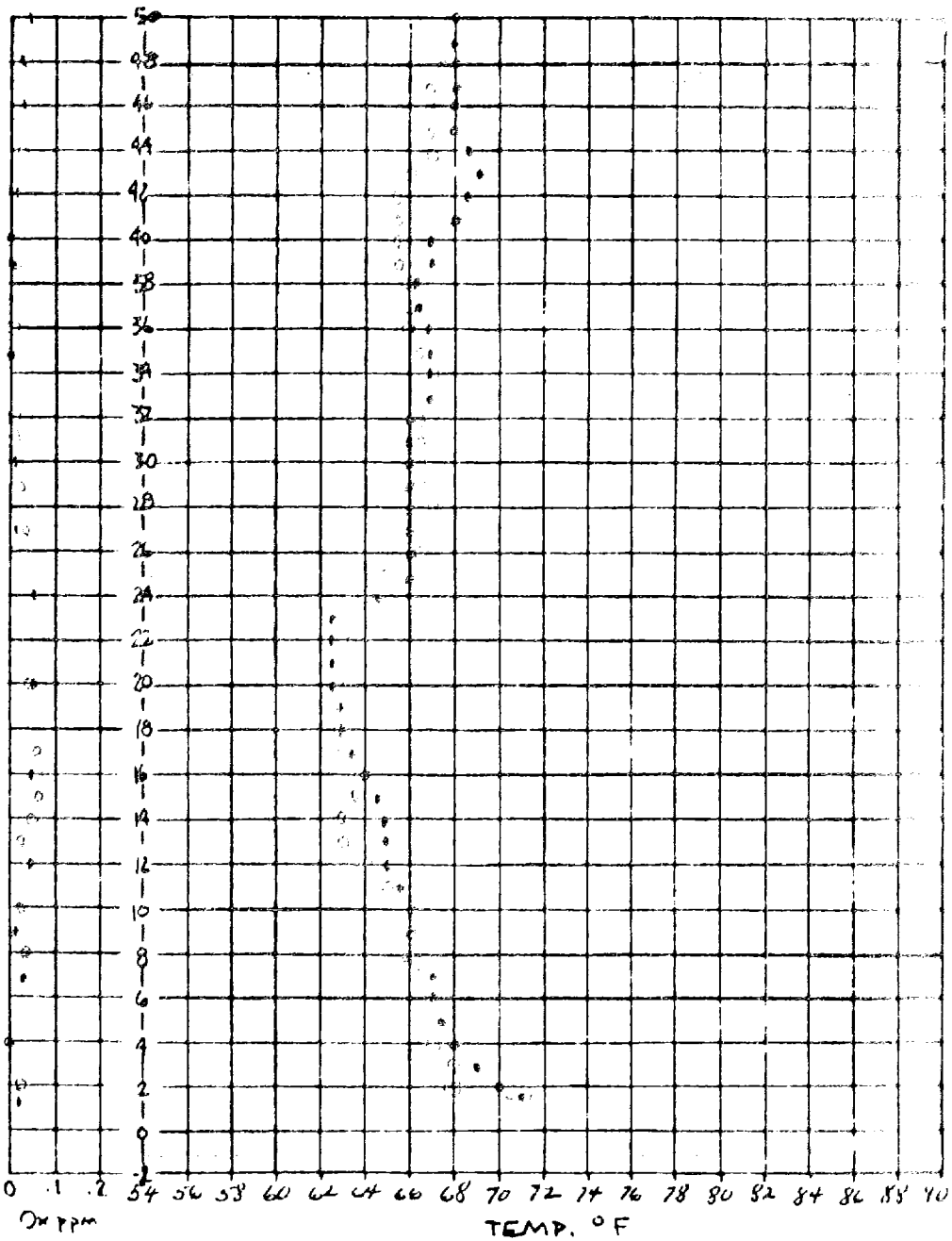


C-49

STATION OXR TIME • up 0943-1007 ○ down 0930-0943 DATE 7/12/75

STATION SMO TIME • up 09[illegible] ○ down [illegible]

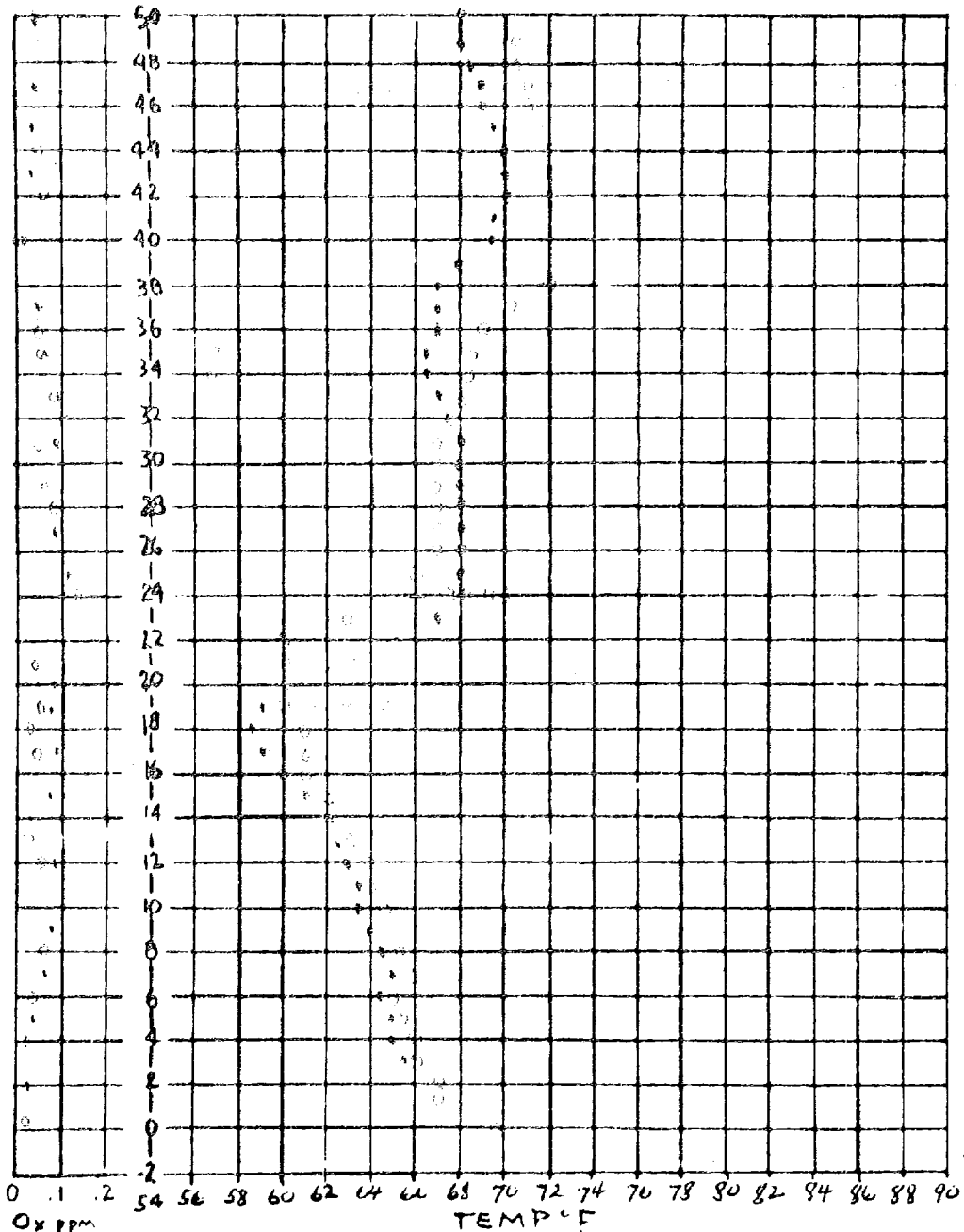


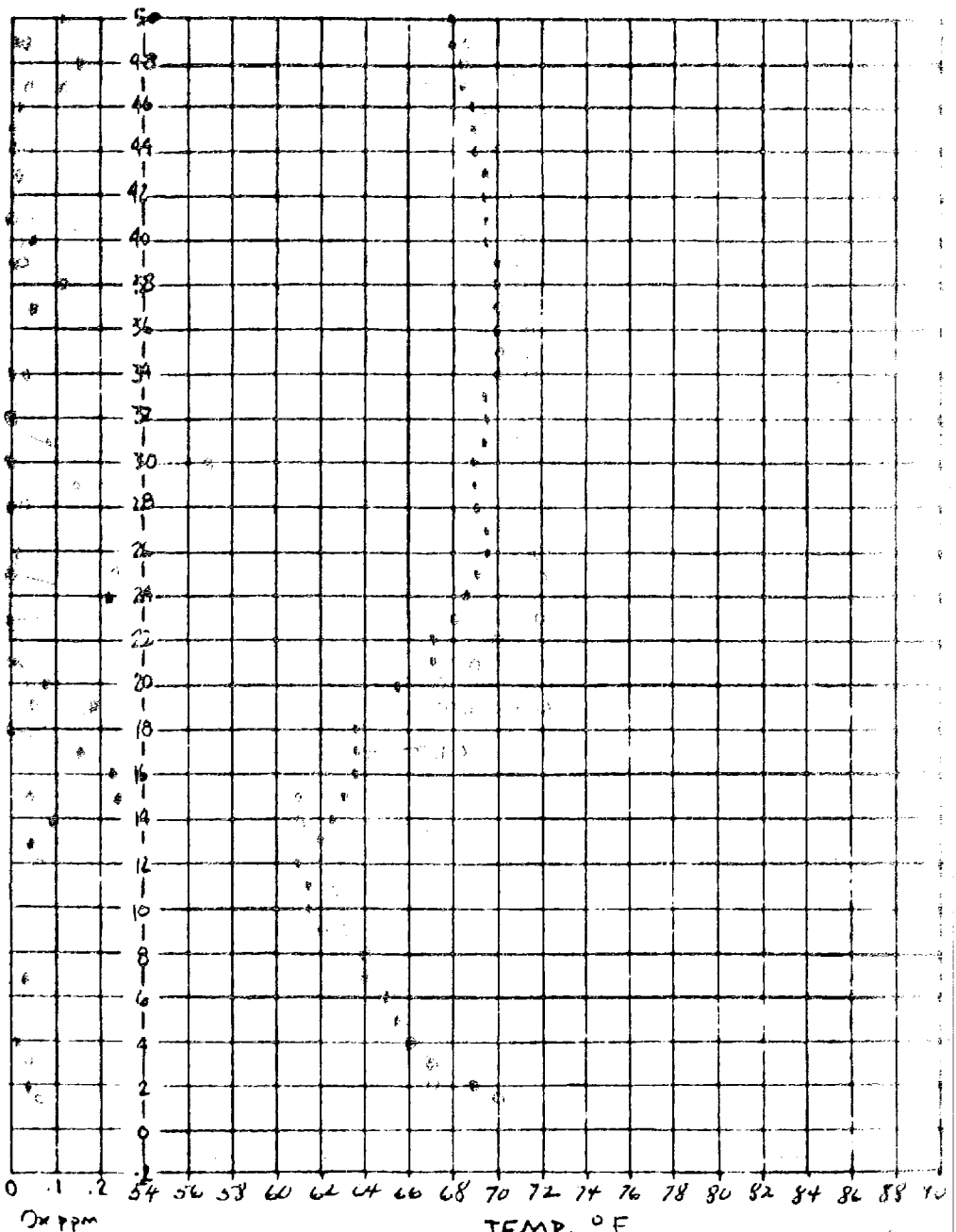


STATION OXR TIME o down 1217-1232 • up 1232-1249

DATE 7/18/75

STATION SMD TIME • up 1201-1215 o down 1234-1307

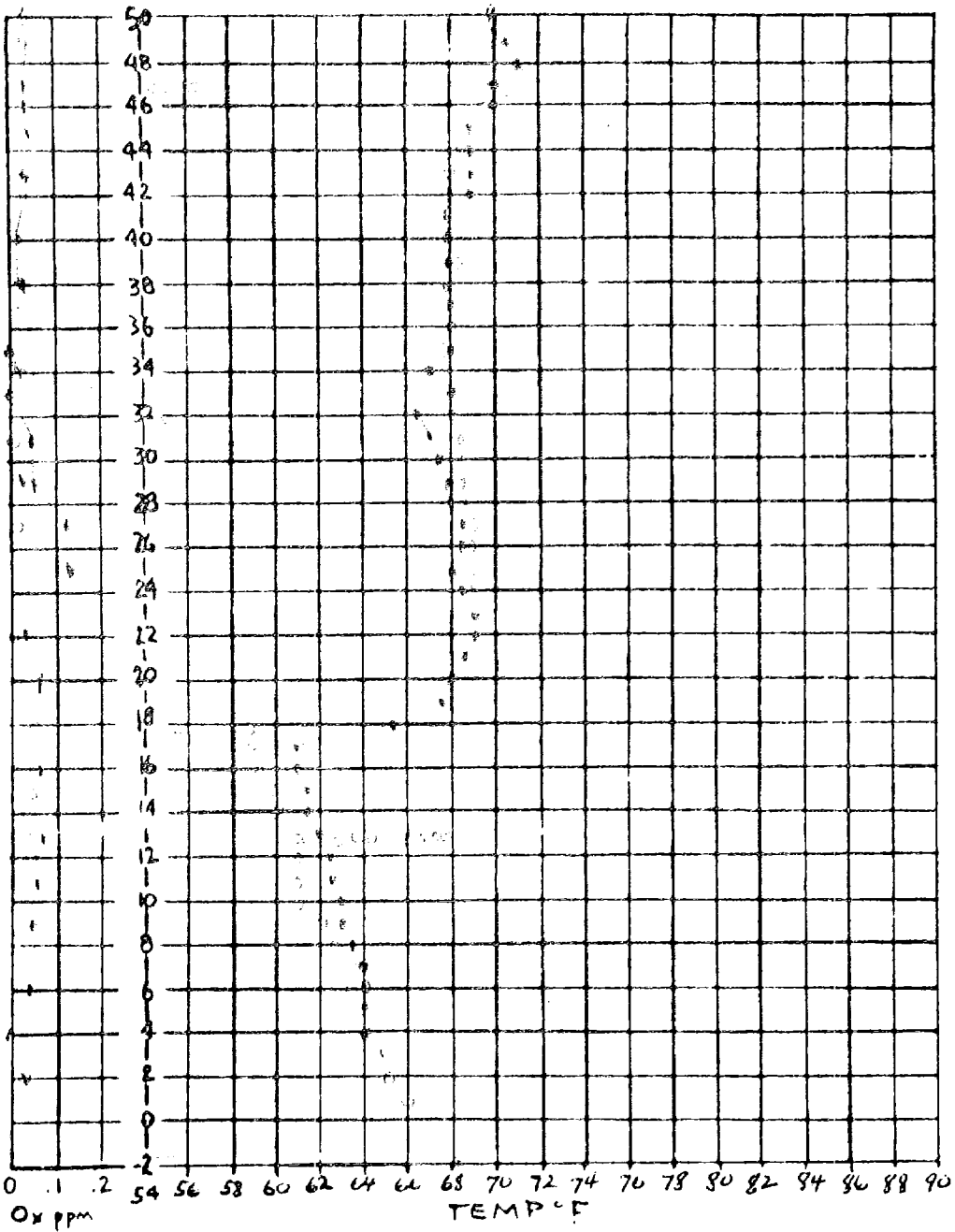


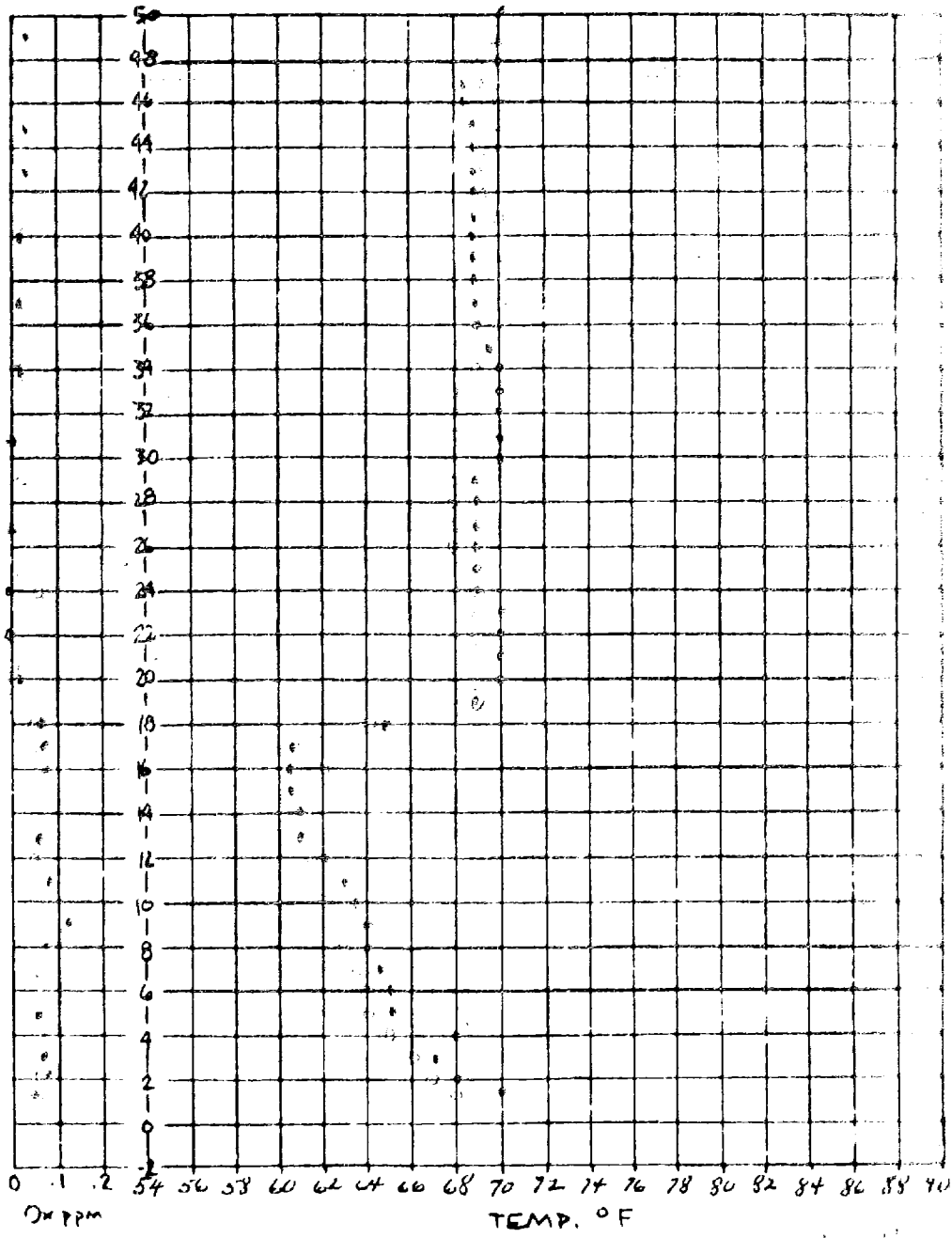


STATION OXR TIME o down 1541-1547 • up 1547-1558

DATE 7/18/75

STATION SMO TIME • up 1515-15[illegible] o down [illegible]





STATION OXR TIME [illegible] 1849-1900 [illegible] 1912-1914

DATE 7/18/75

STATION [illegible] TIME [illegible]

A P P E N D I X D

CROSS-SECTIONS

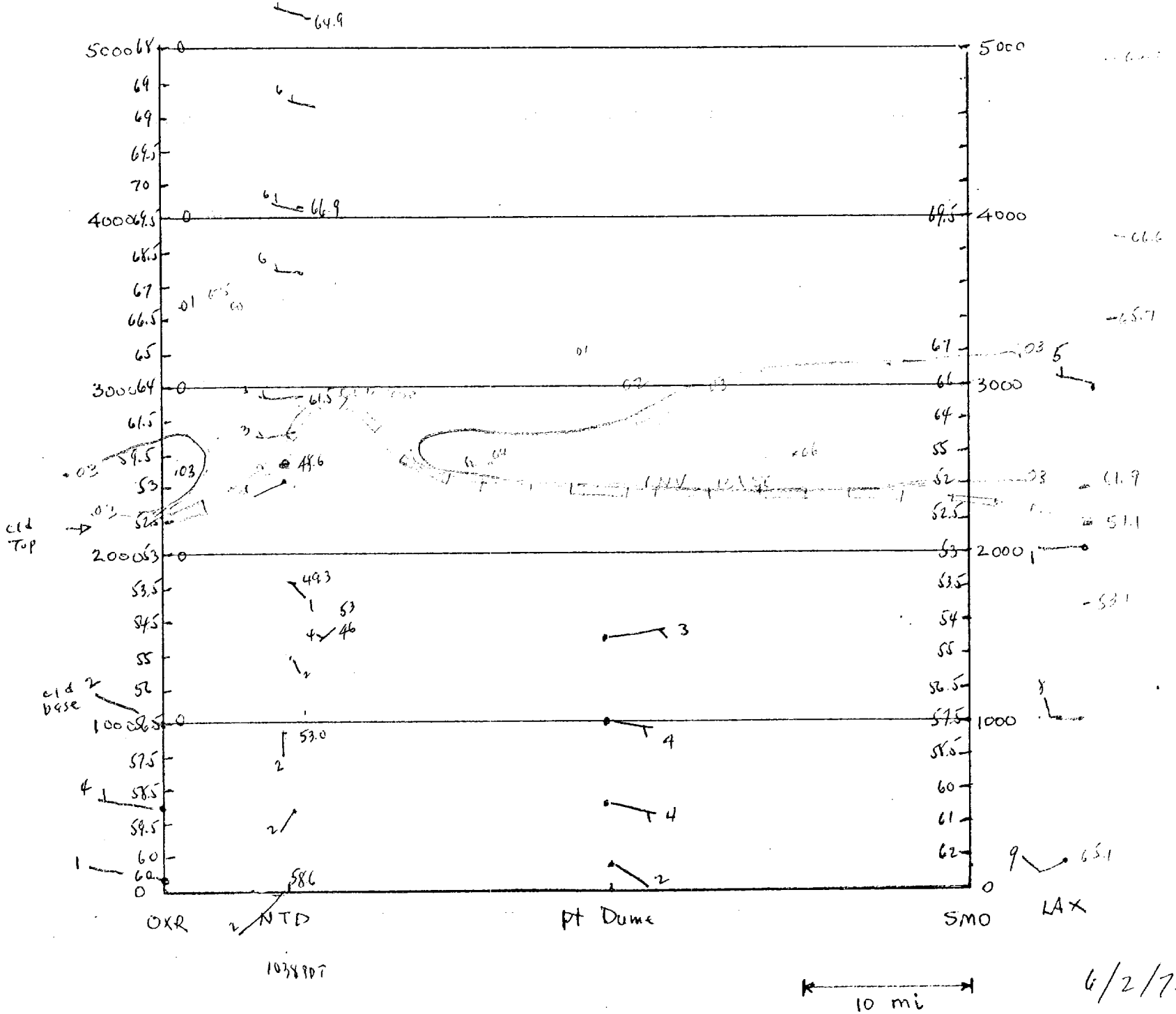
Ozone concentrations shown in parts per million (ppm), with location of maximum values indicated by shading.

Temperature soundings indicated by vertical series of numbers representing temperature in degrees F.

Winds shown by conventional wind arrows pointing in the direction the air is flowing. Speed (in mph) is indicated by the barbs and numbers at the end of the wind arrows.

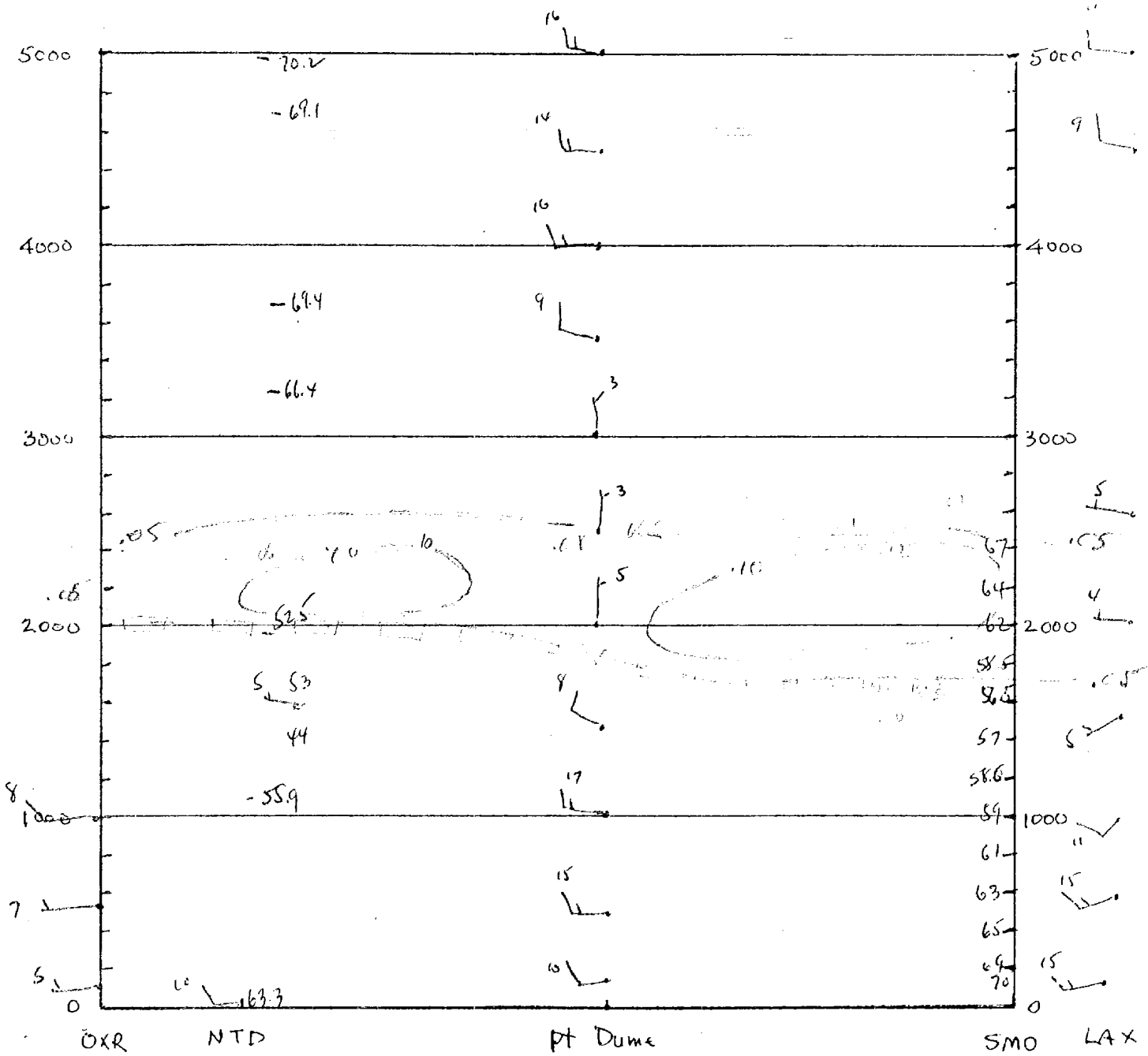
Location of inversions indicated by dashed line.

Surface conditions for weather observing stations indicated by conventional weather symbols at bottom of cross-sections; surface wind speeds given in mph.



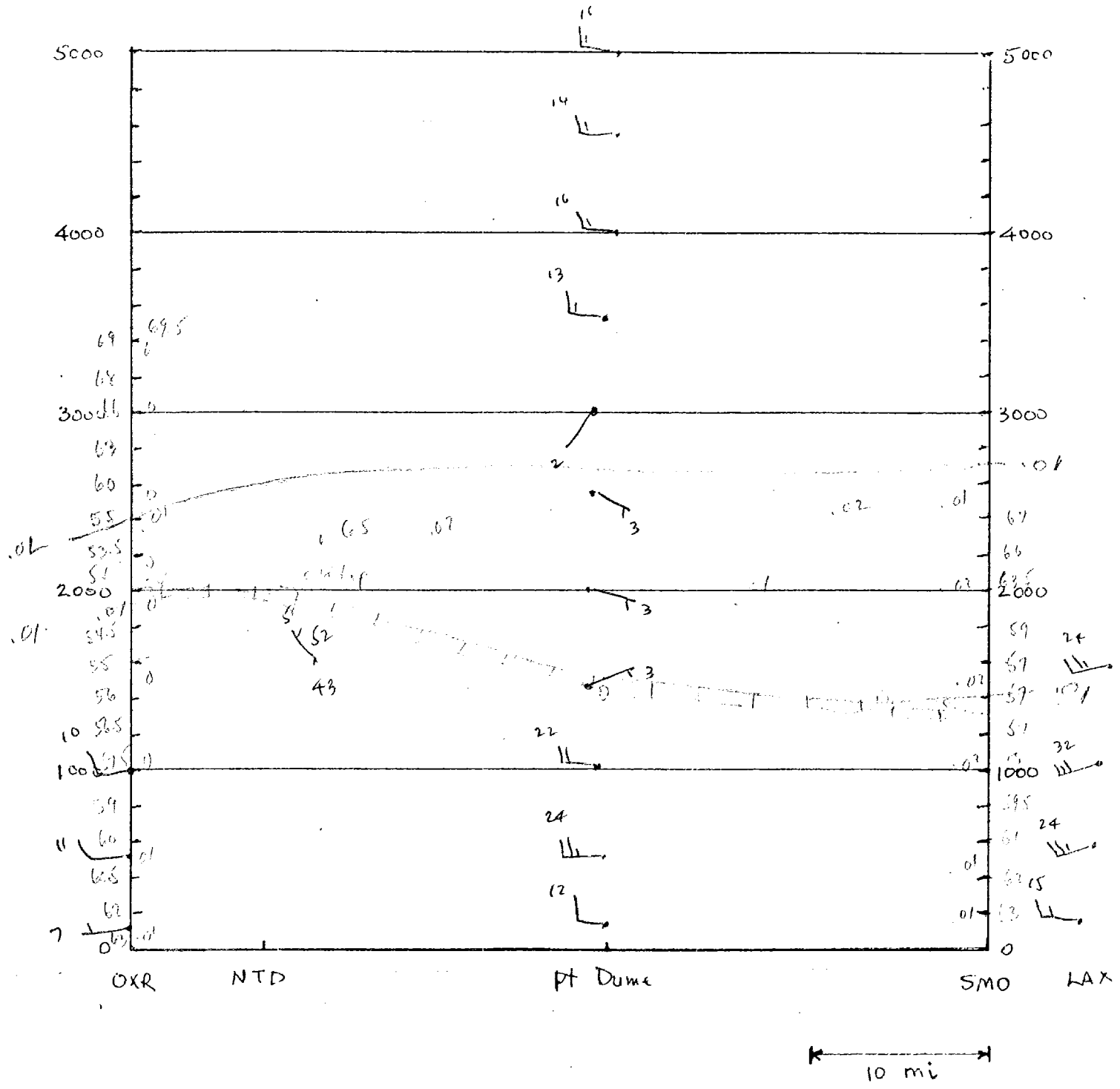
D-1

6/2/75
1200PDT



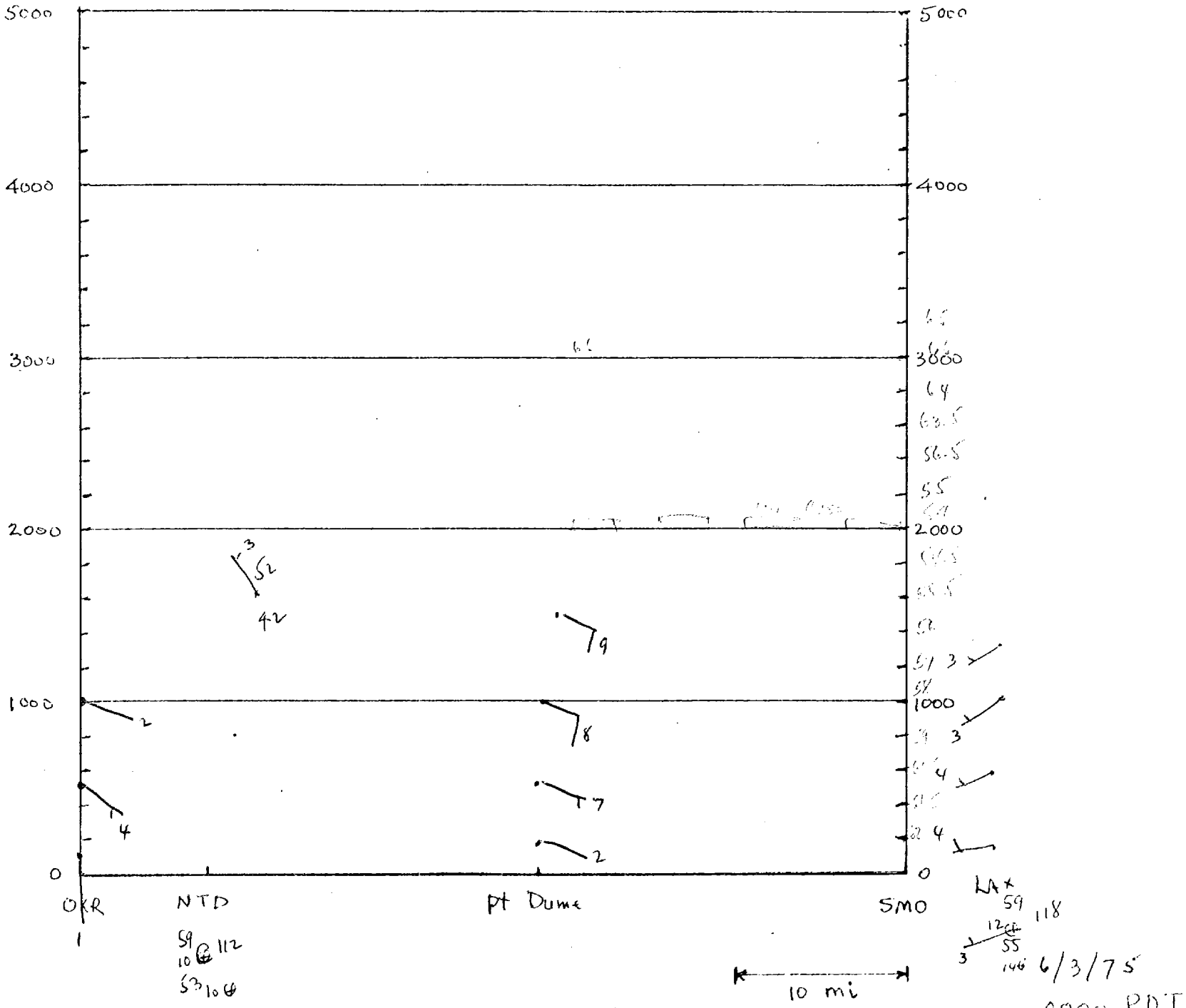
1415PDT

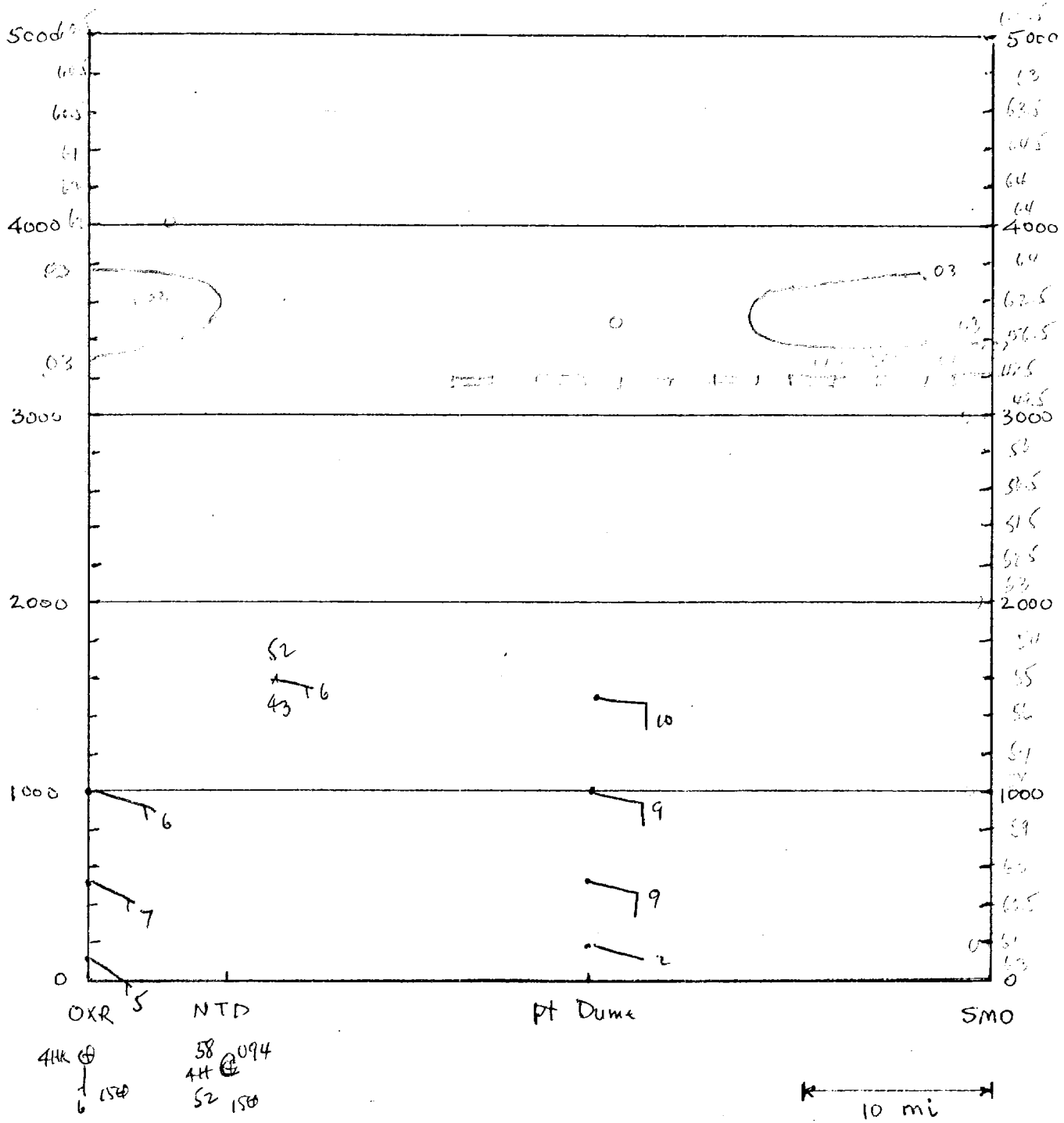
6/2/75
1500PDT



6/2/75
1800 PDT

D-3


5000
4000
3000
2000
1000
0
OKR
NTD
Pt Dume
SMO
10 mi
Max
59
118
55
146
6/3/75
0000 PDT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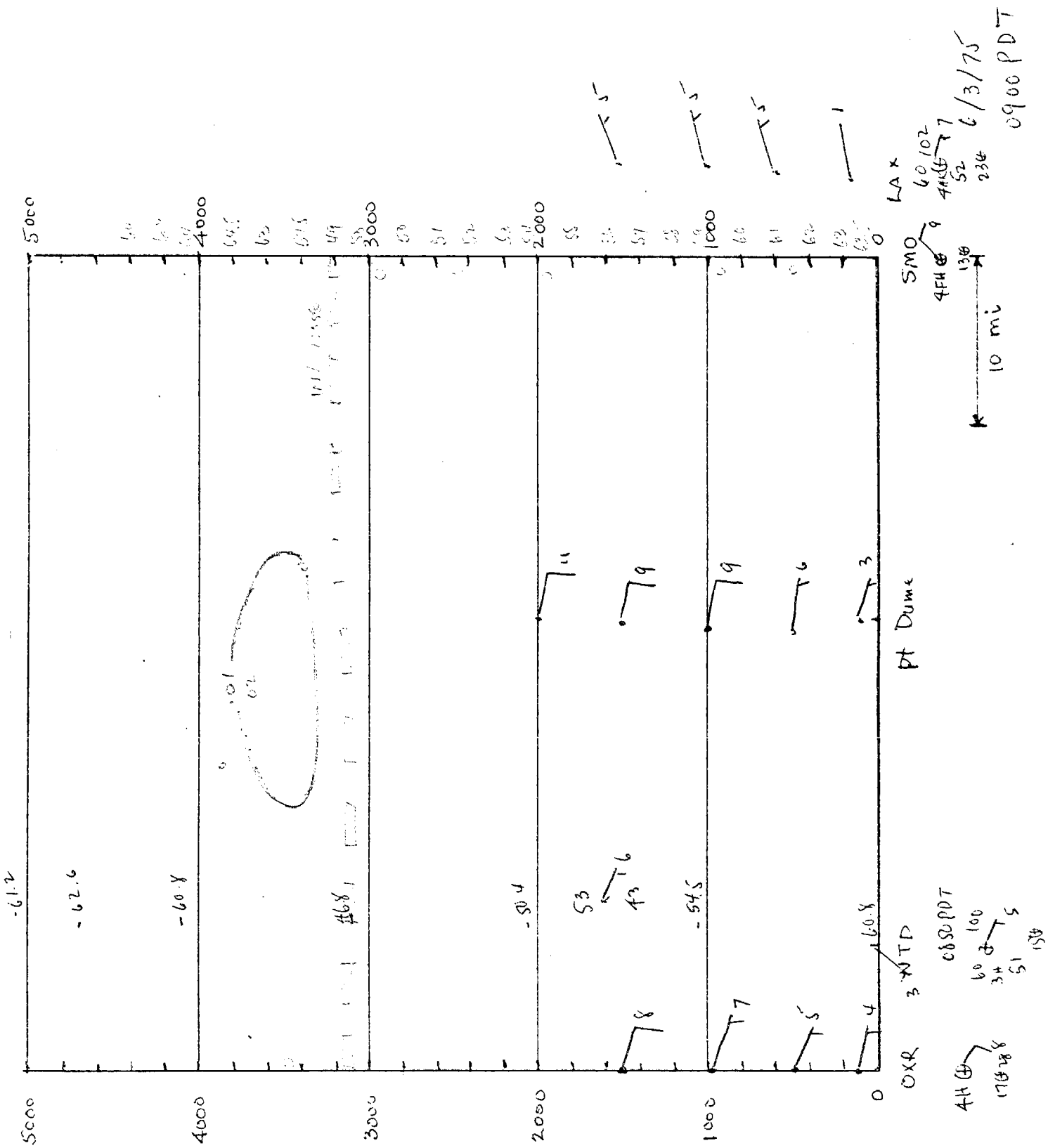
2000
1000
0
OXR
NTD
Pt Dume
SMO
LAX
10 mi
6/3/75
0600 PDT



5000
4000
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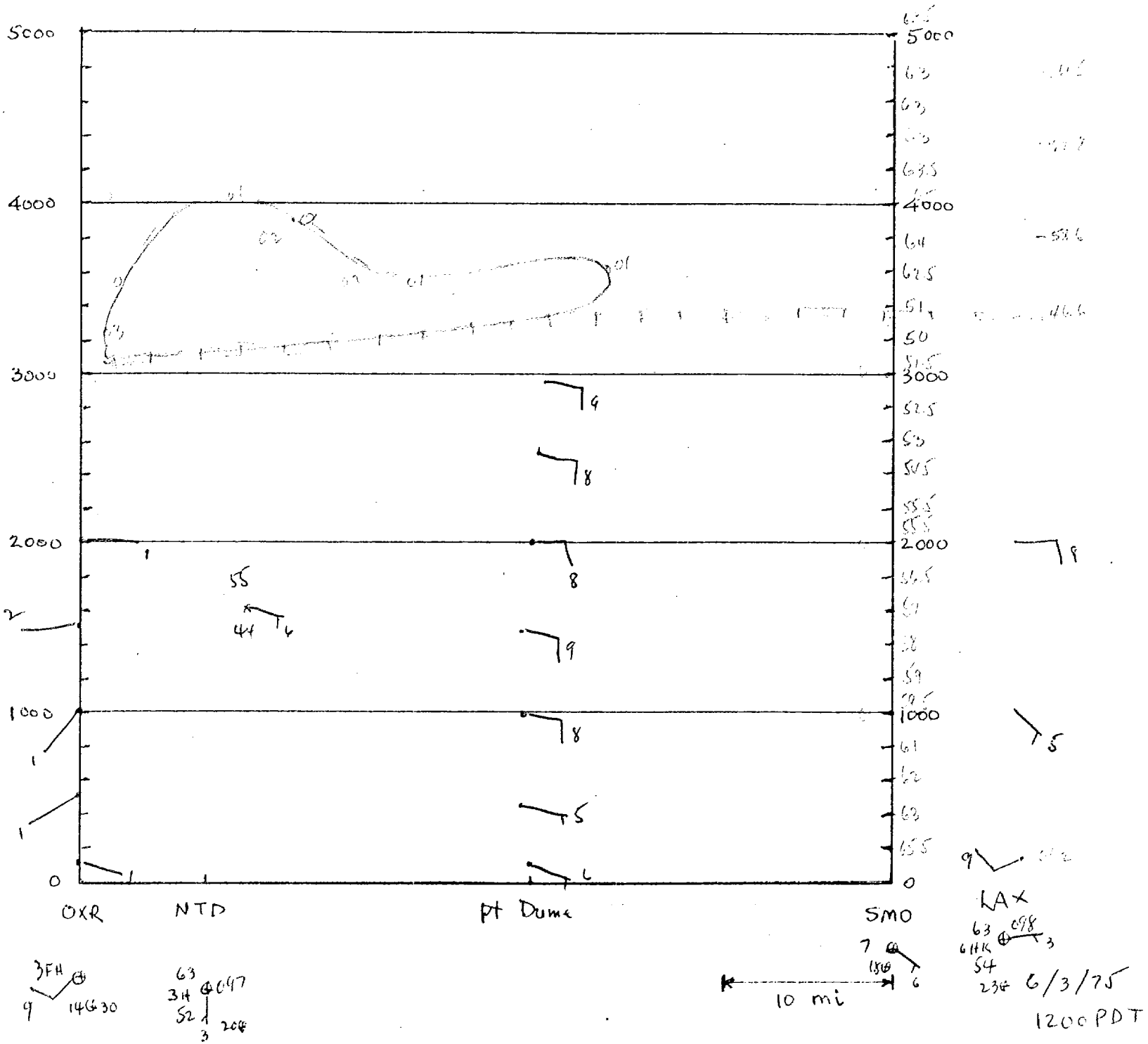
2000
1000
0
OXR
Pt Dume
SMO
LAX
10 mi
6/3/75
0900 PDT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1000
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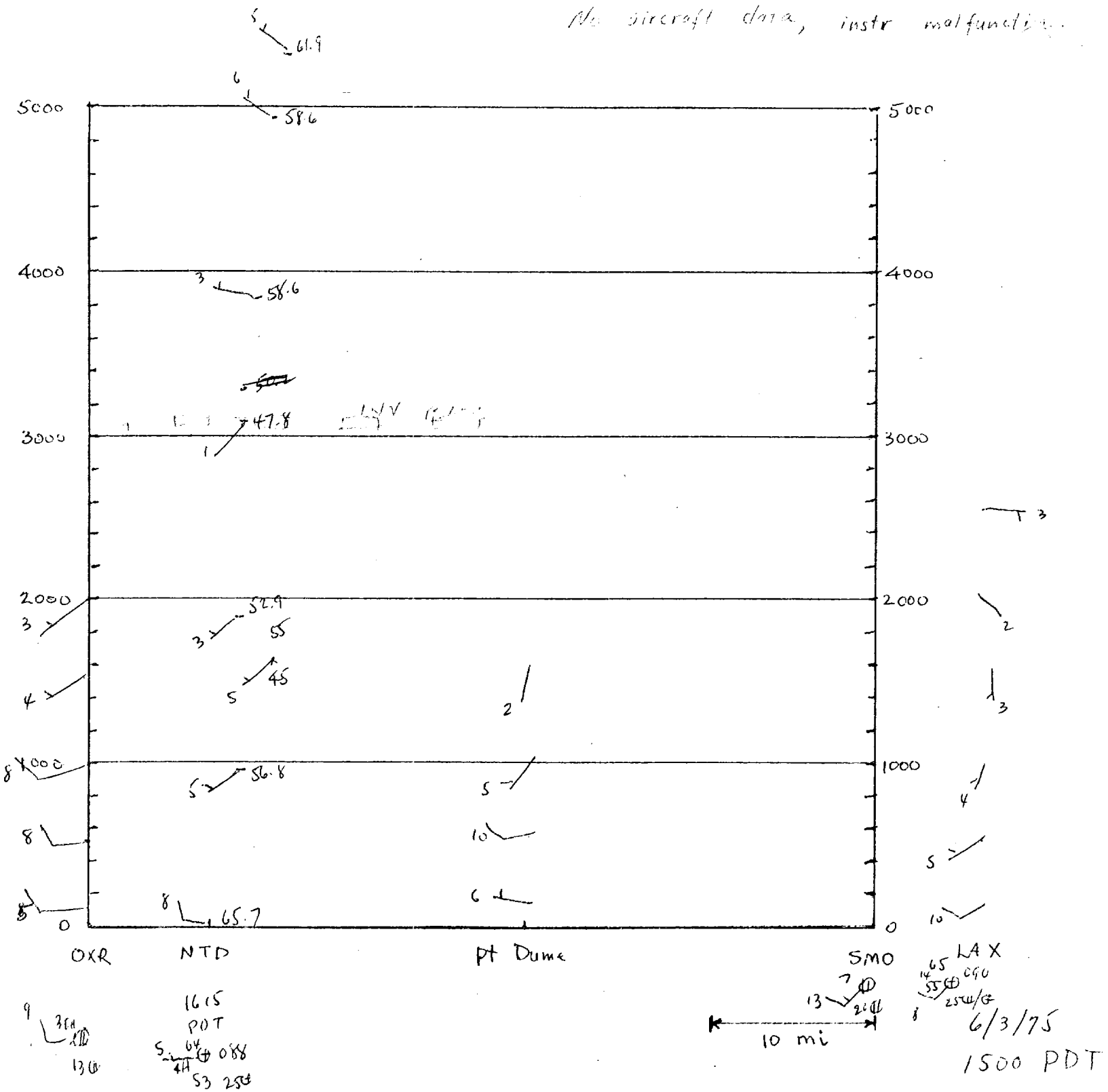
OXR
NTD
Pt Dume
SMO
LAX
10 mi
6/3/75
1200 PDT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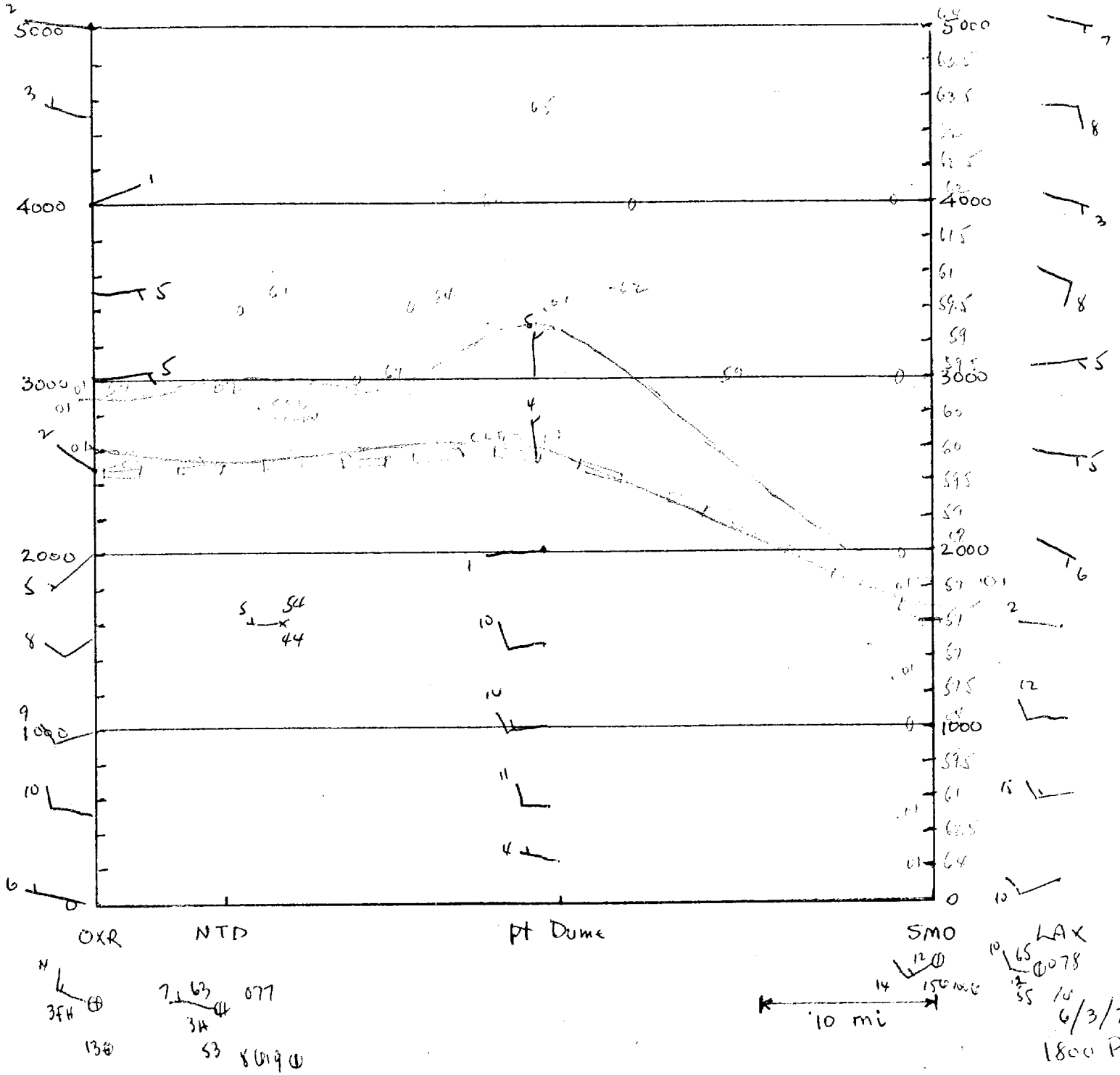
SMO
LA X
10 mi
6/3/75
1500 PDT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OXR
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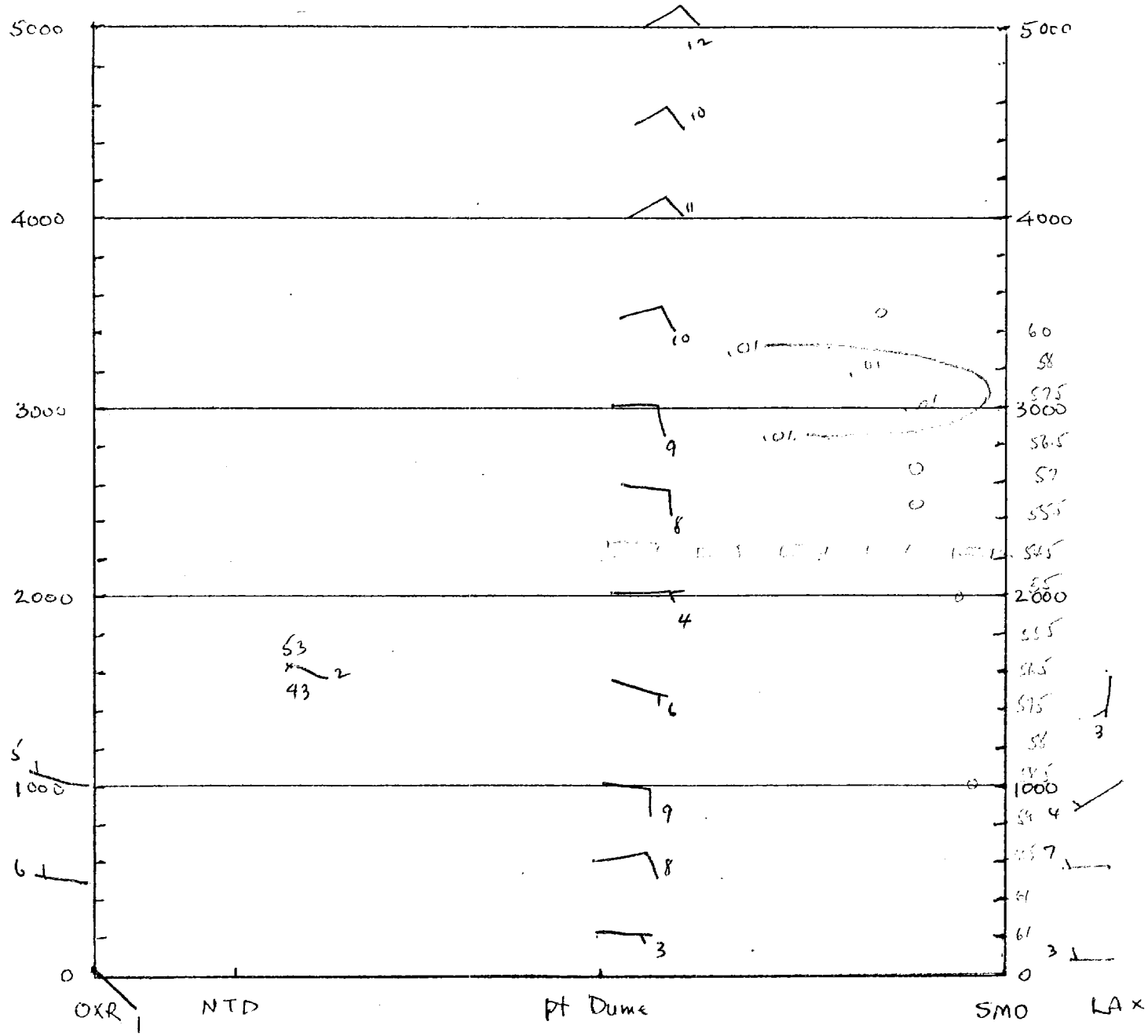
Pt Dume
SMO
LAX
10 mi
6/3/75
1800 PDT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4000
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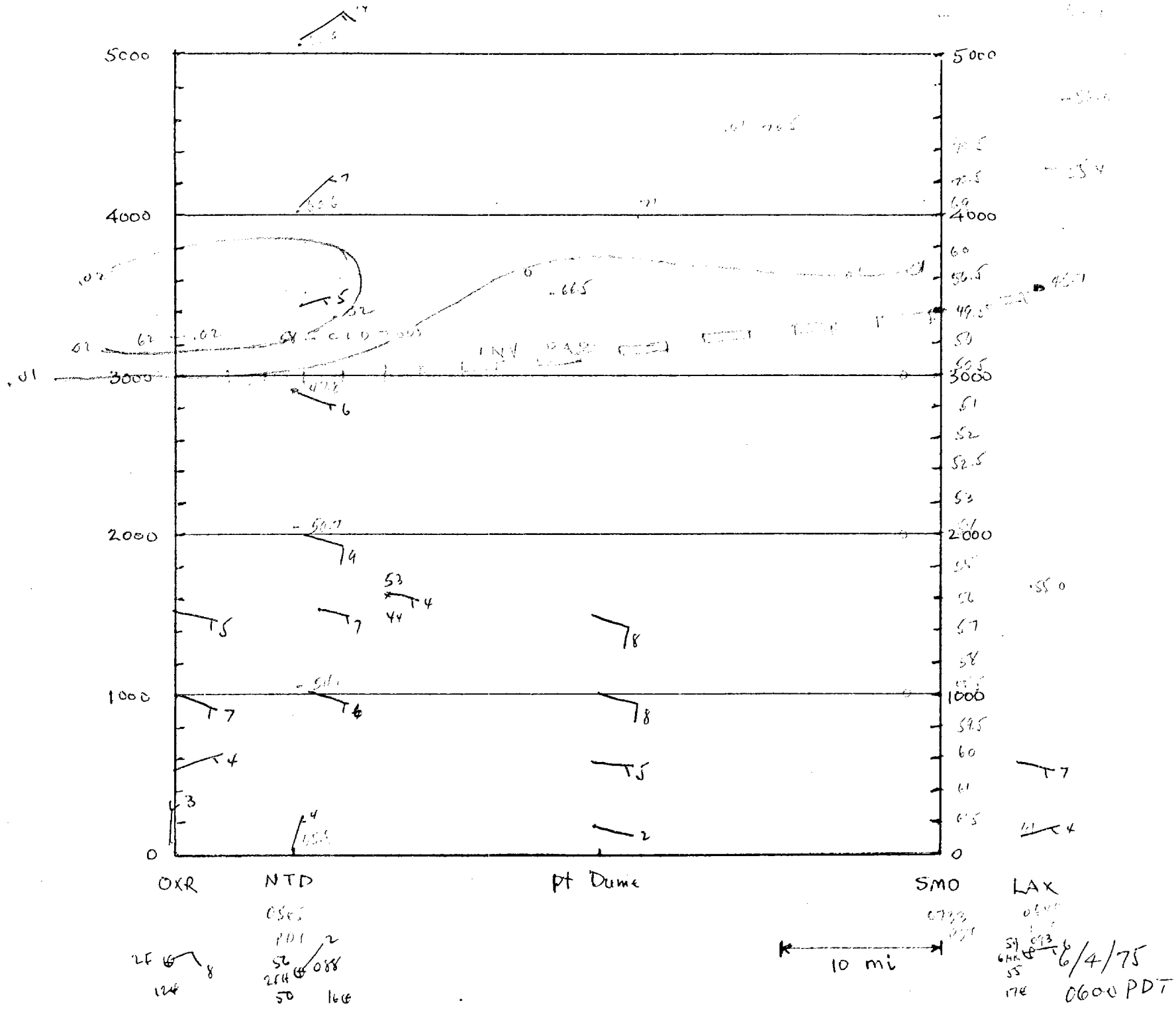
OXR
NTD
Pt Dume
SMO
LAX
10 mi
6/4/75
0000 PDT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1000
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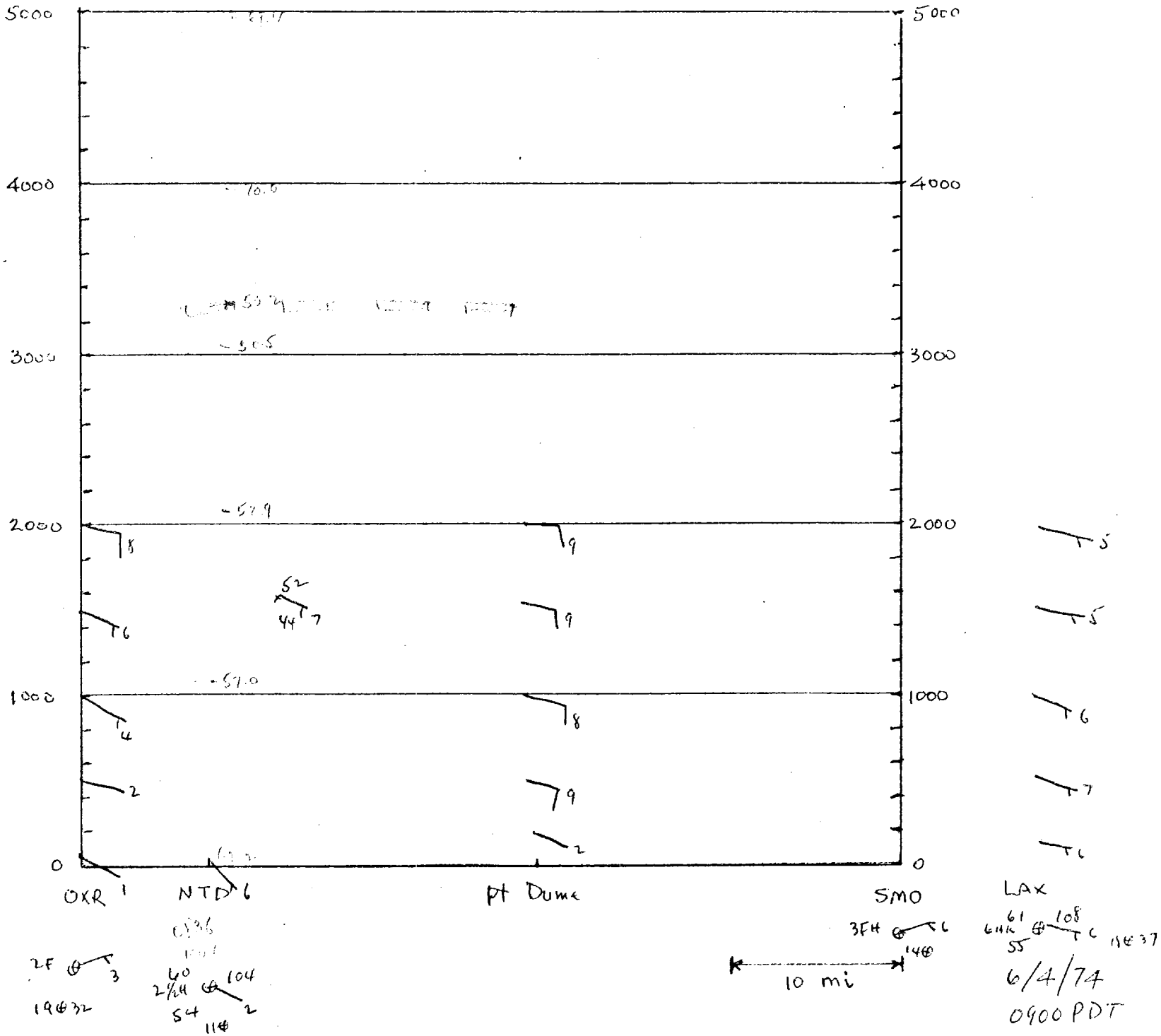
OXR
NTD
pt Dume
SMO
LAX
10 mi
6/4/75
0600 PDT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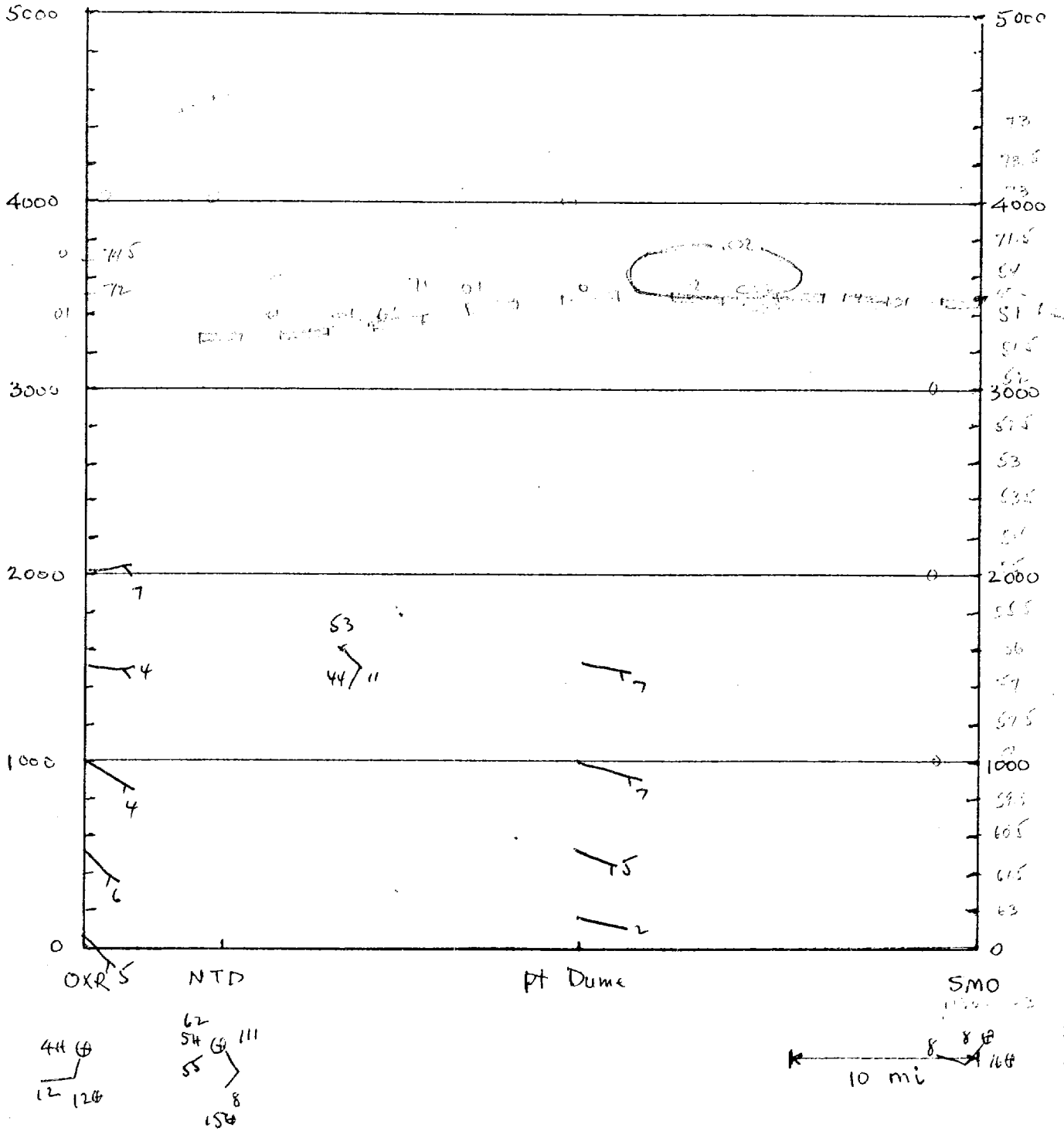
1000
0
OXR
NTD
Pt Dume
SMO
LAX
10 mi
6/4/74
0900 PDT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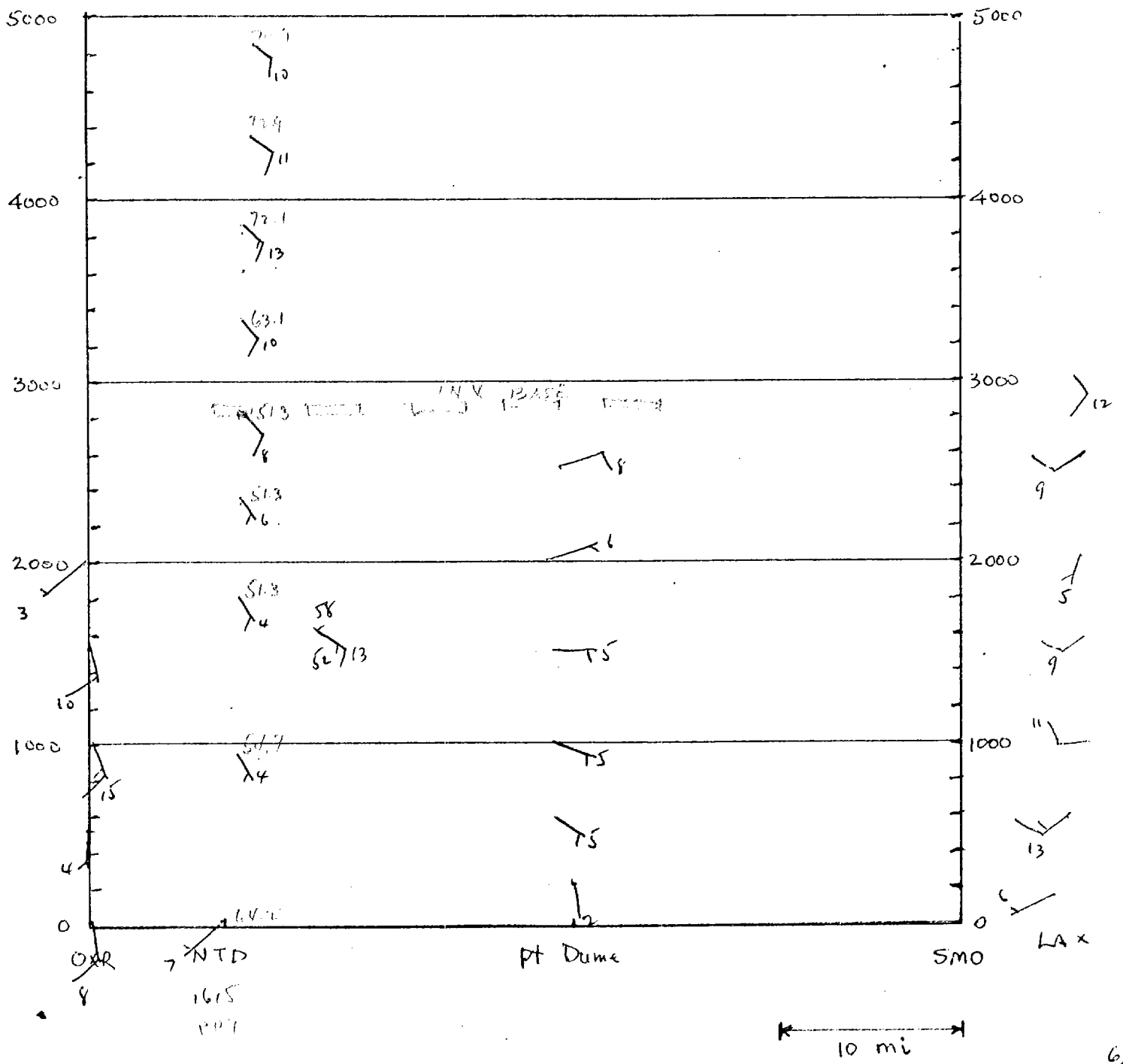
0
OXR
NTD
Pt Dume
SMO
10 mi
6/4/75
1200 PDT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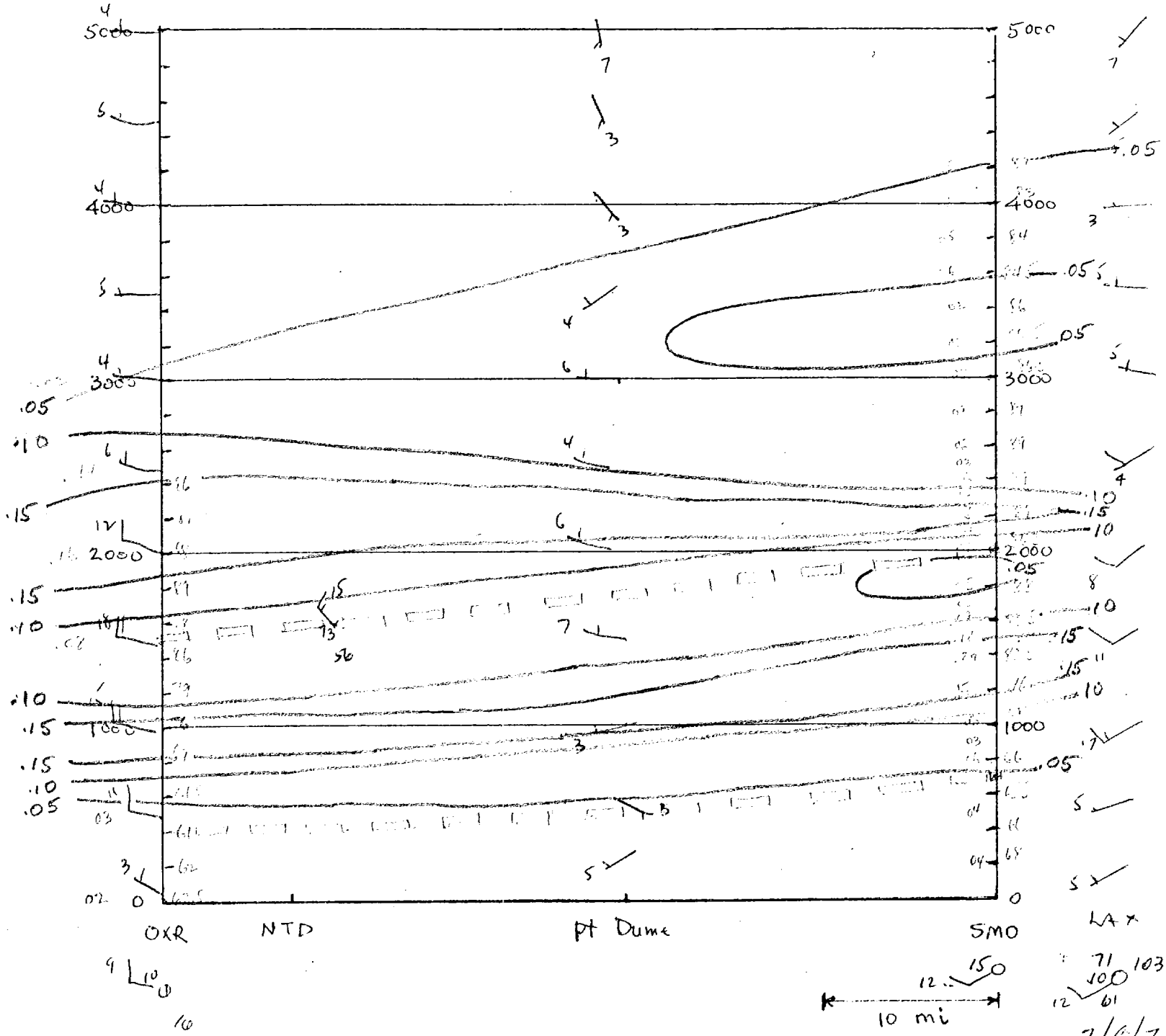
0
OXR
NTD
Pt Dume
SMO
LAX
10 mi
6/4/75
1500 PDT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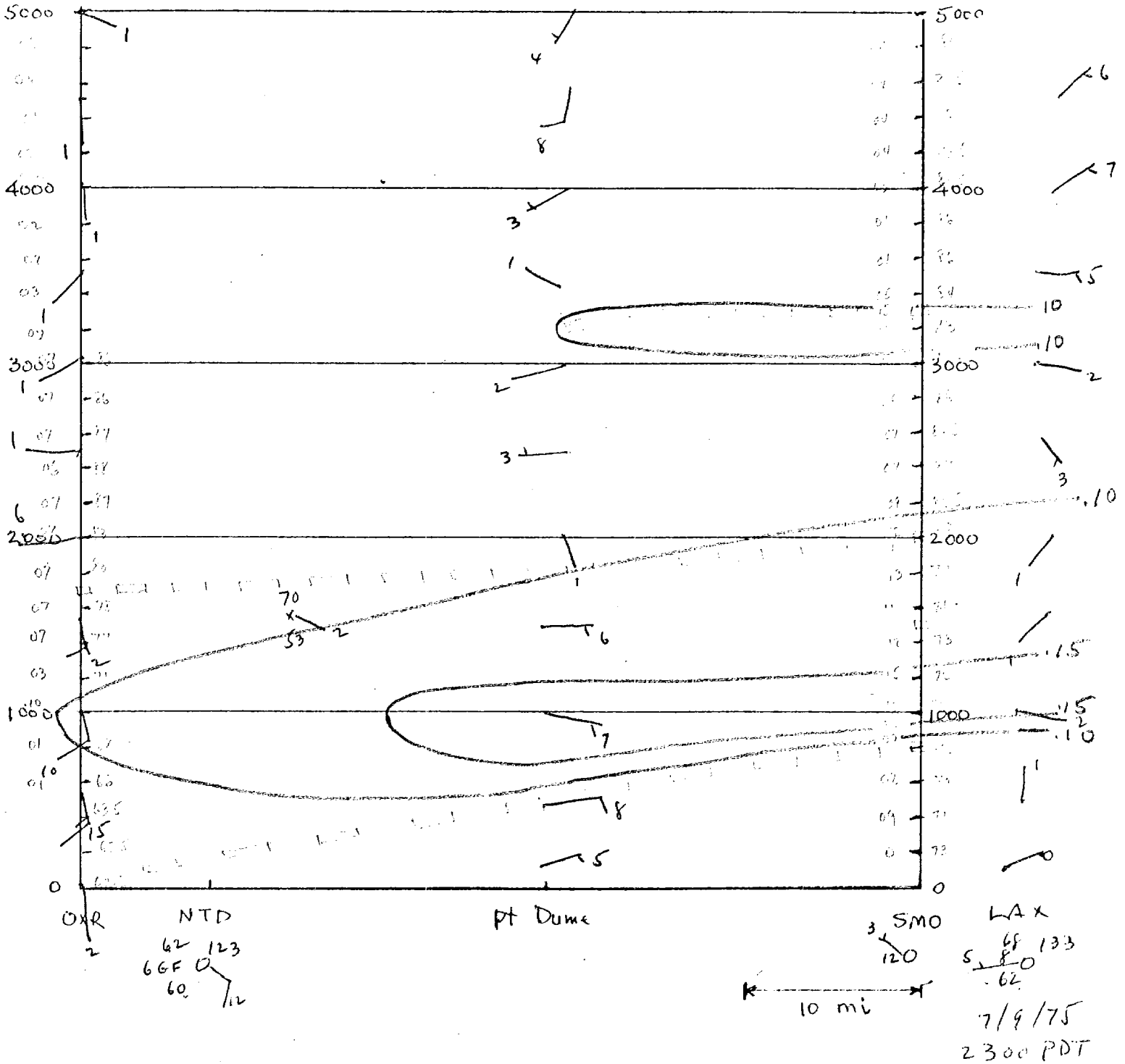
3000
2000
1000
0
OXR
NTD
Pt Dume
SMO
LAX
10 mi
7/9/75
1900 PDT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OXR
NTD
Pt Dume
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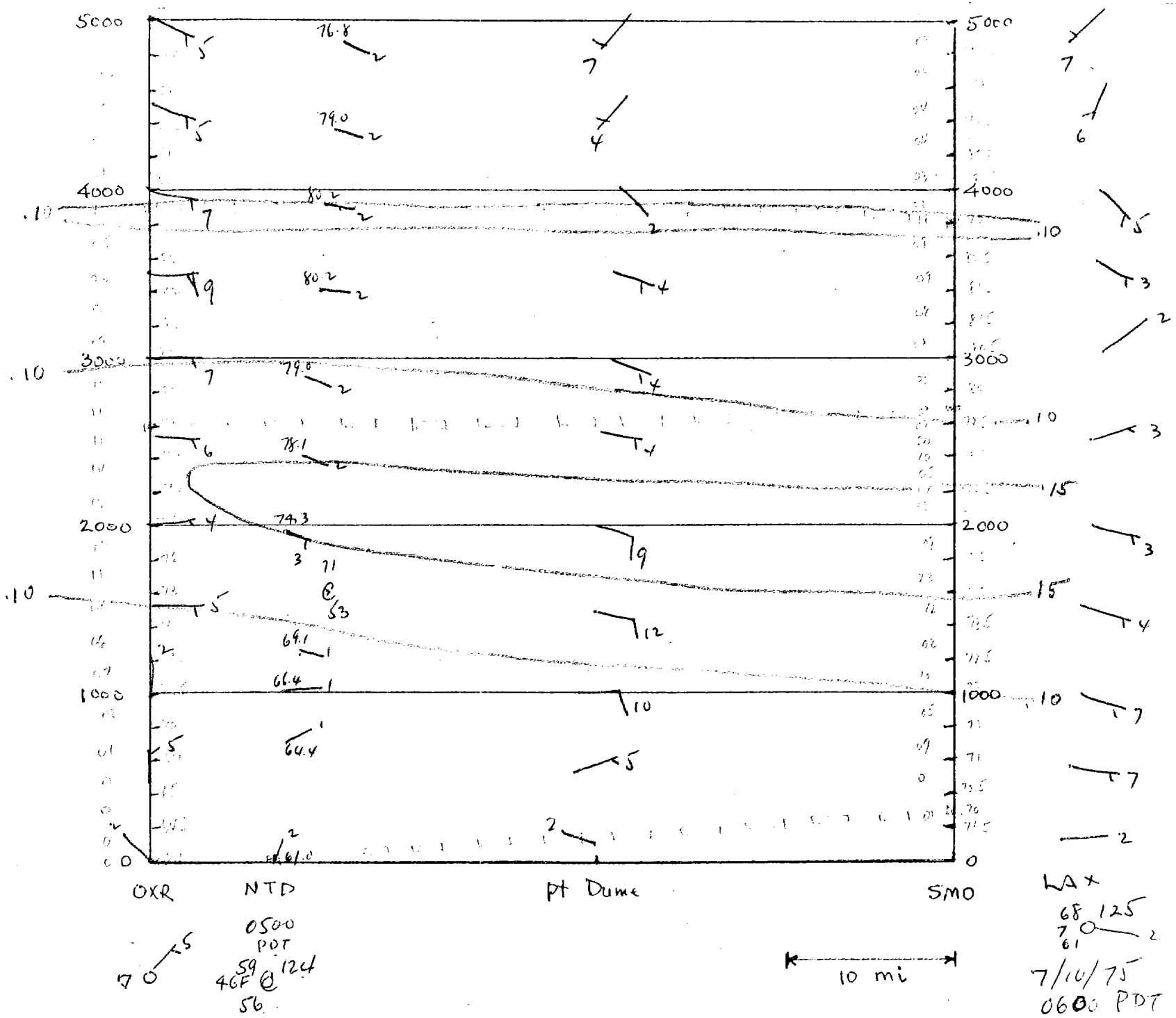
LAX
10 mi
7/9/75
2300 PDT


5000
4000
3000
2000
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0
OXR
NTD
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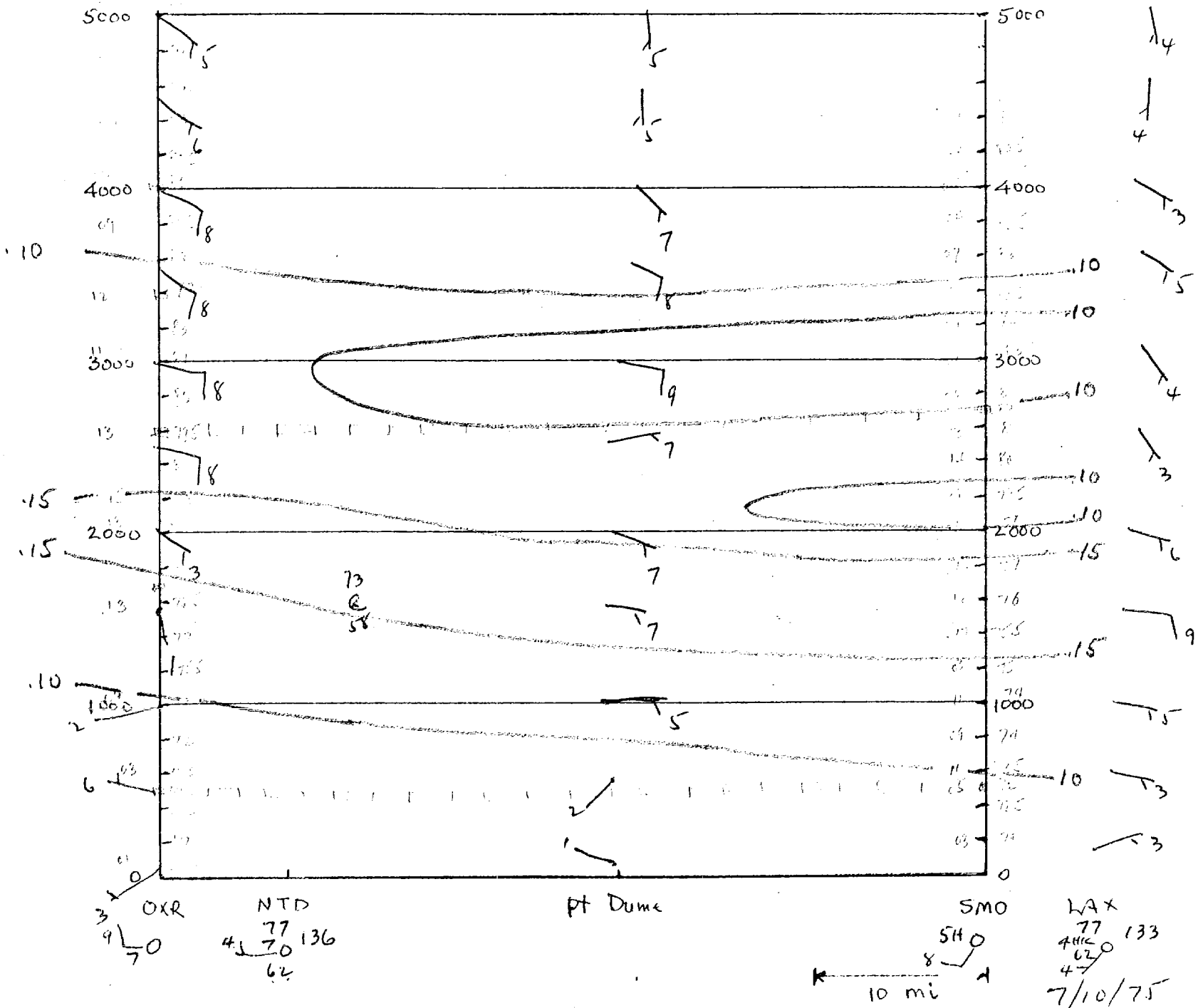
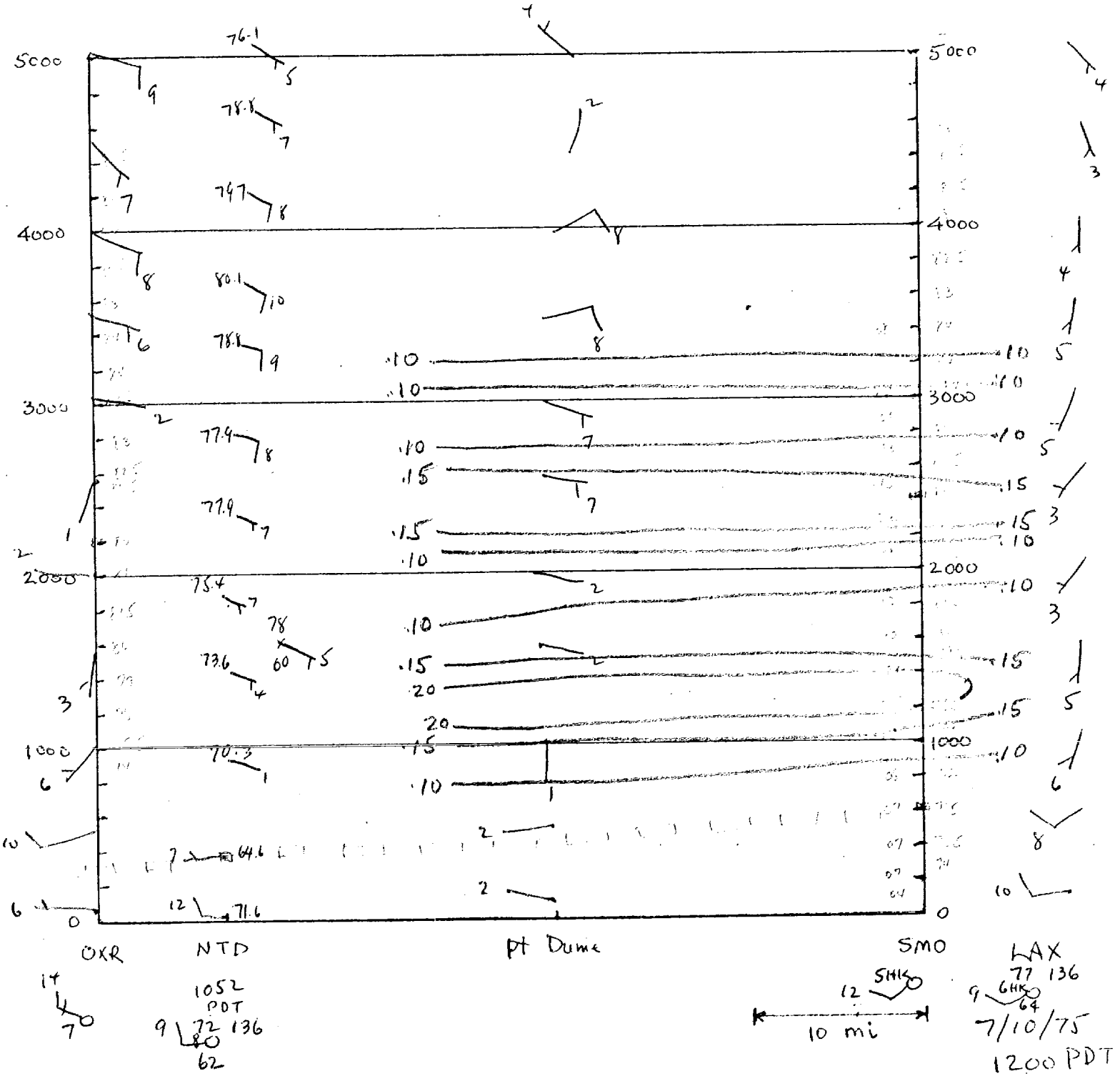
PDT
59
46F @ 124
56
Pt Dume
SMO
10 mi
LAX
68 125
7 2
61
7/16/75
0600 PDT


5000
4000
3000
2000
1000
0
OXR
NTD
pt Dume
SMO
LAX
10 mi
7/10/75
0900 PDT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4000
3000
2000
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0
OXR
NTD
Pt Dume
SMO
LAX
10 mi
7/10/75
1200 PDT