

241

241





242

247









SMITHSONIAN

24.8



LOUERT







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249









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248





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248









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250





13

25.3









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252





16

25.4





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257





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248





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251





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25.0





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256



24 No Good



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270



24 No 6000



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272





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27.5





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275





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276



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30

27.6





31

27.9





32

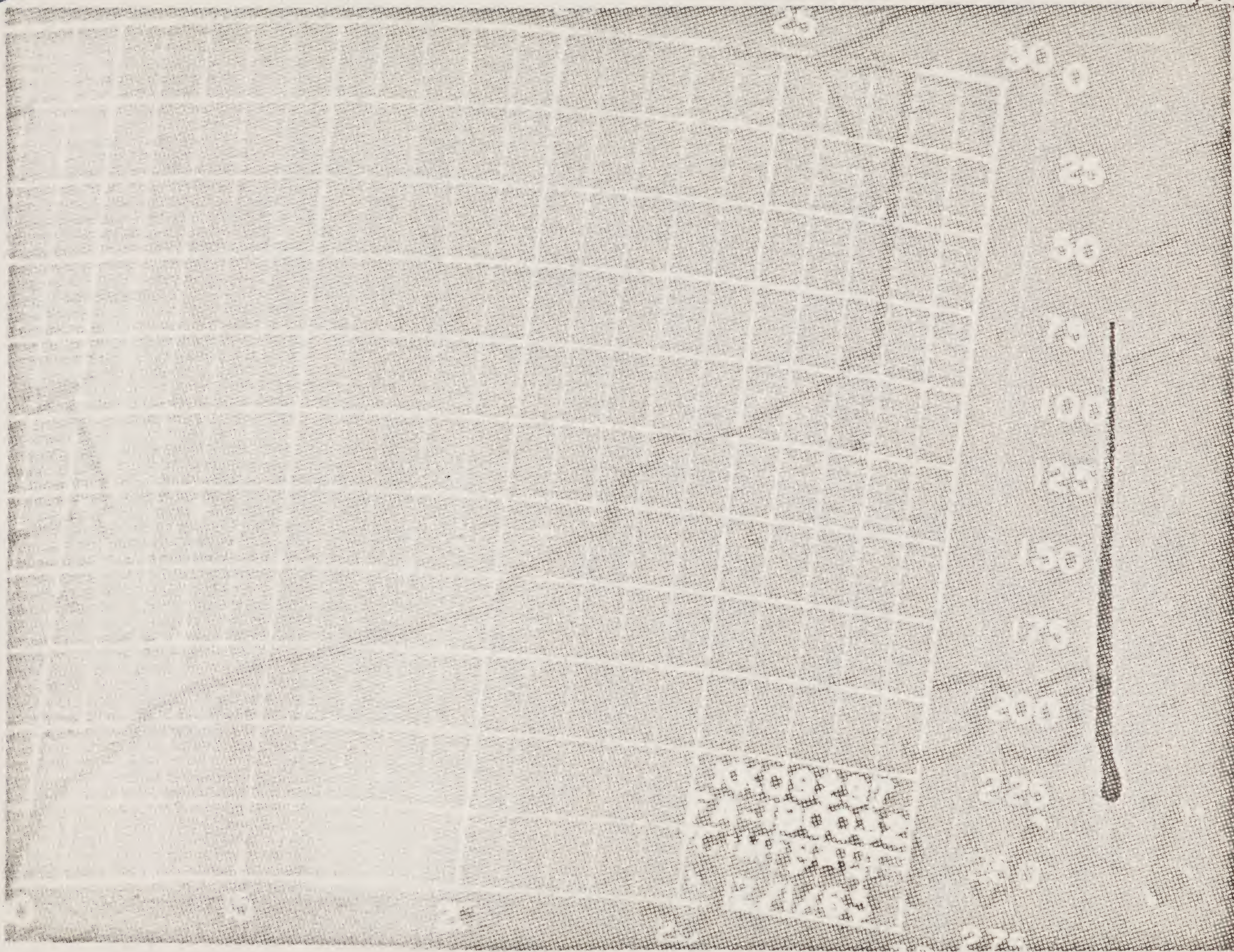
278





33

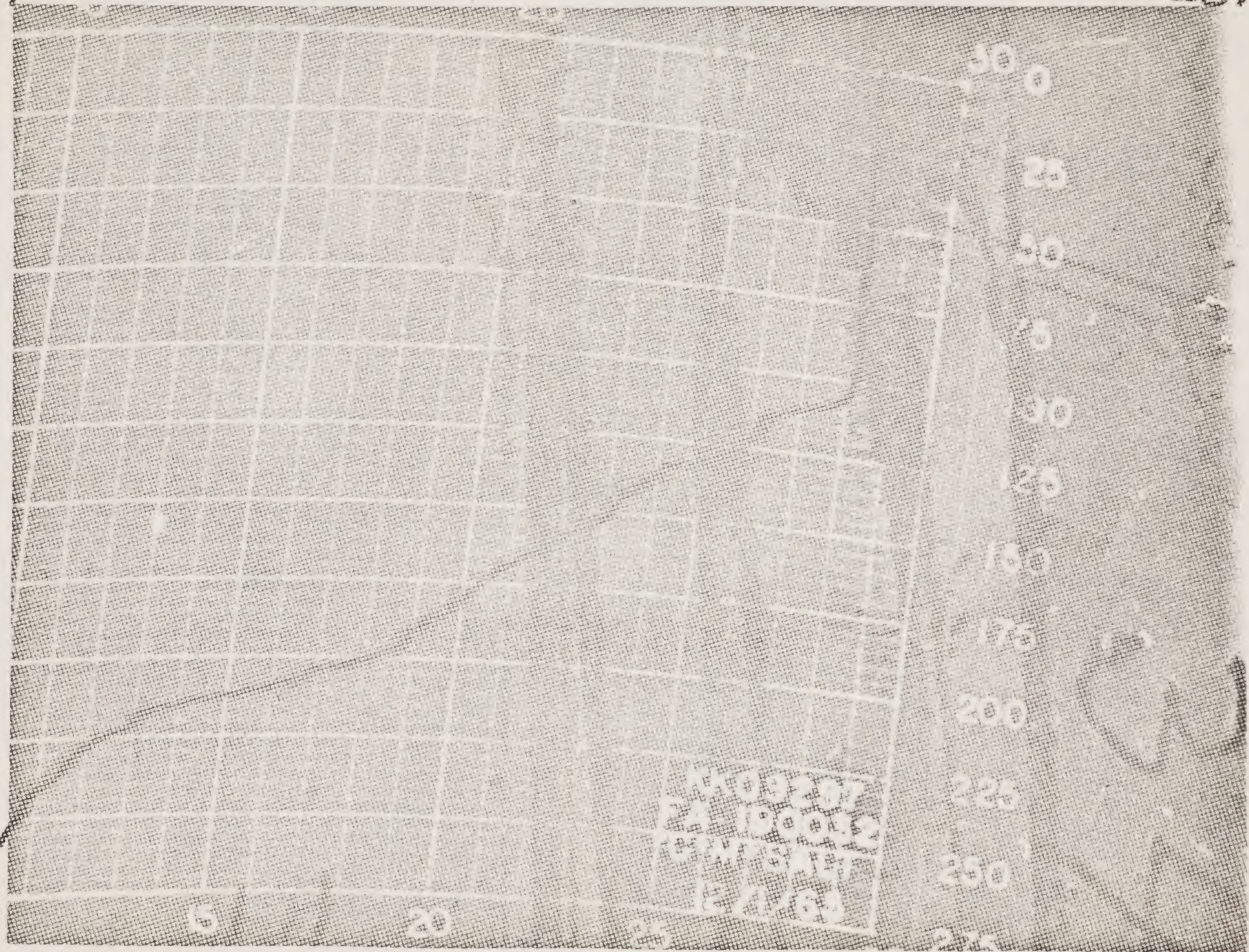
27.9





34

28.0





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278





36

28.7





37

28.6



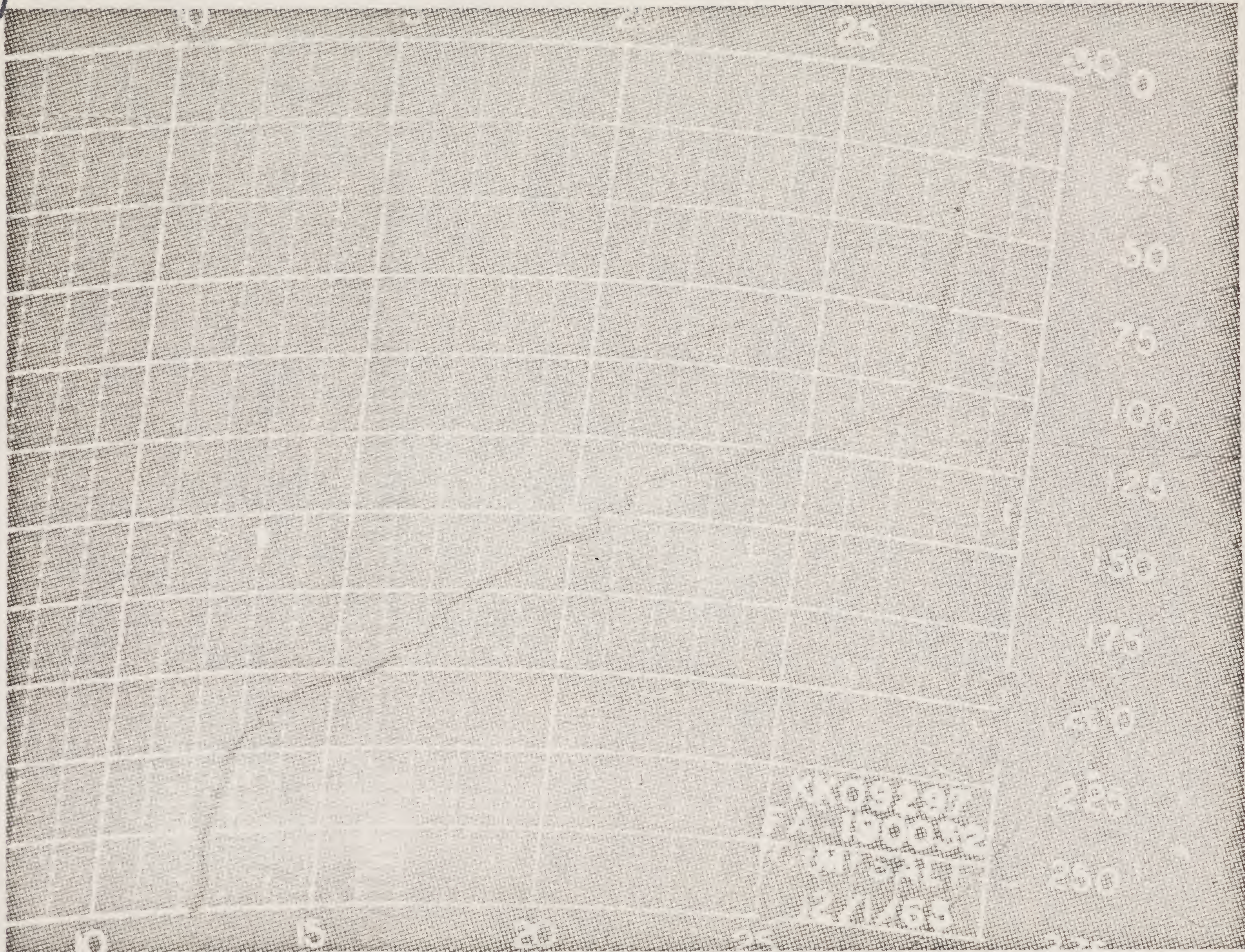


38

28.5









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281





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28.2





42

28.5





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28.8





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28.4





45

27.7













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281





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28.1





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28.7





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54

28.1





JJ

280









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286





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28.7





59

28.6





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28.5









62

28.5





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28.7





64

8.82





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28.8





66

27.3





57

287





68

288





69

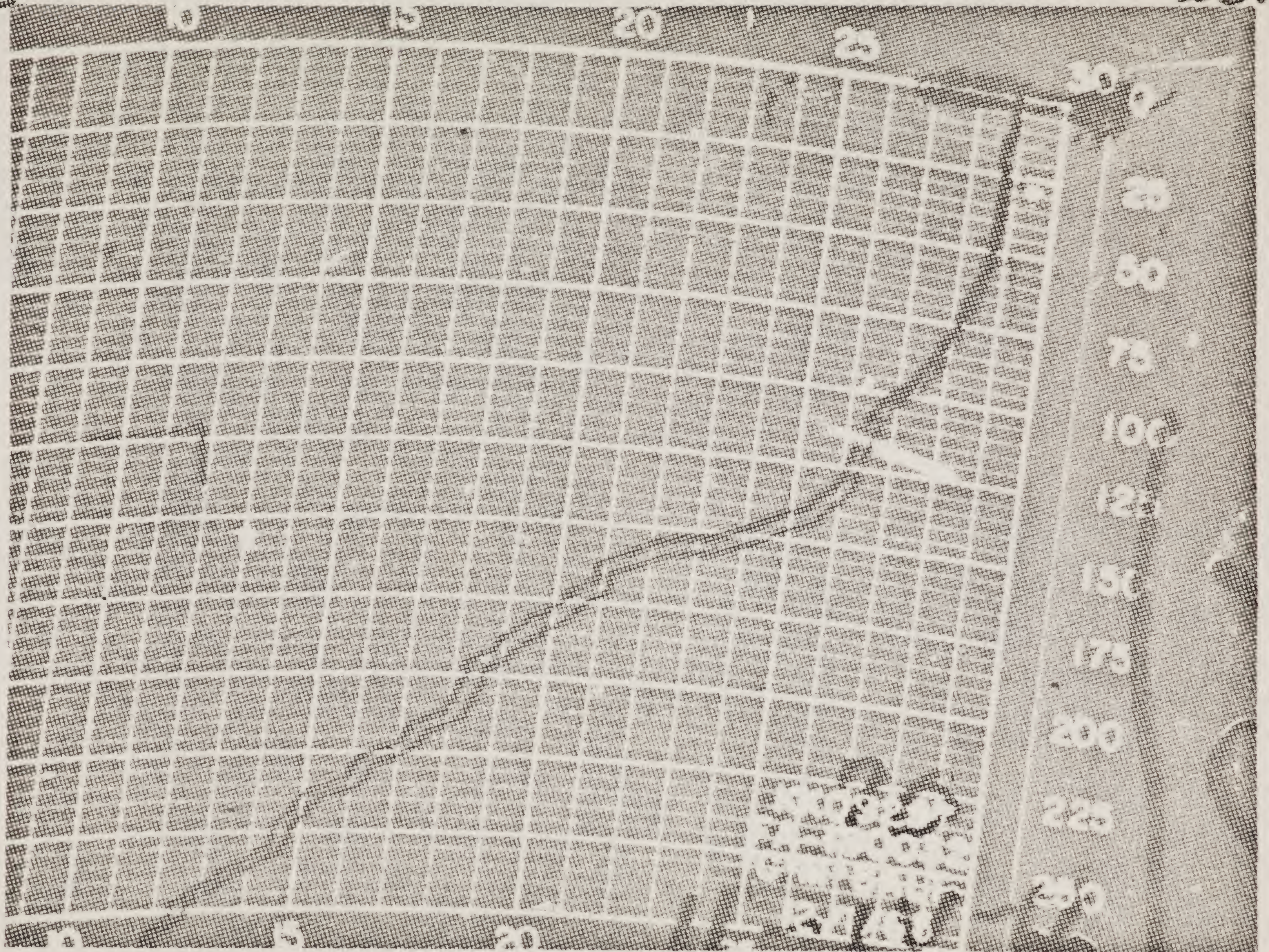
289





70

28.9





71

28.8





72

28.7





73

28.8





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287





75

28.7





76

29.1











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 1000



80

29.5







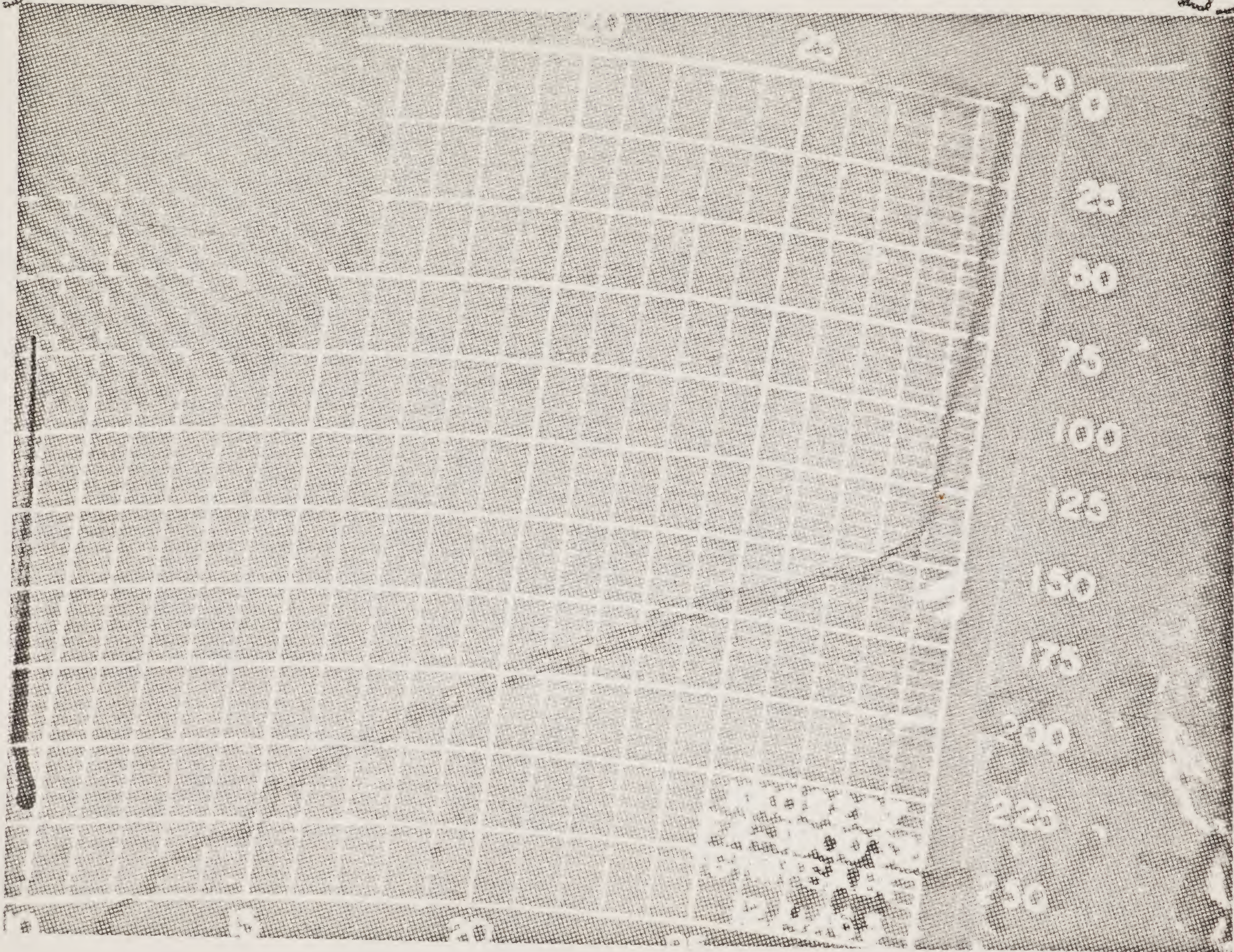






83

297









85

29.1









87

295





88

29.6





89

298







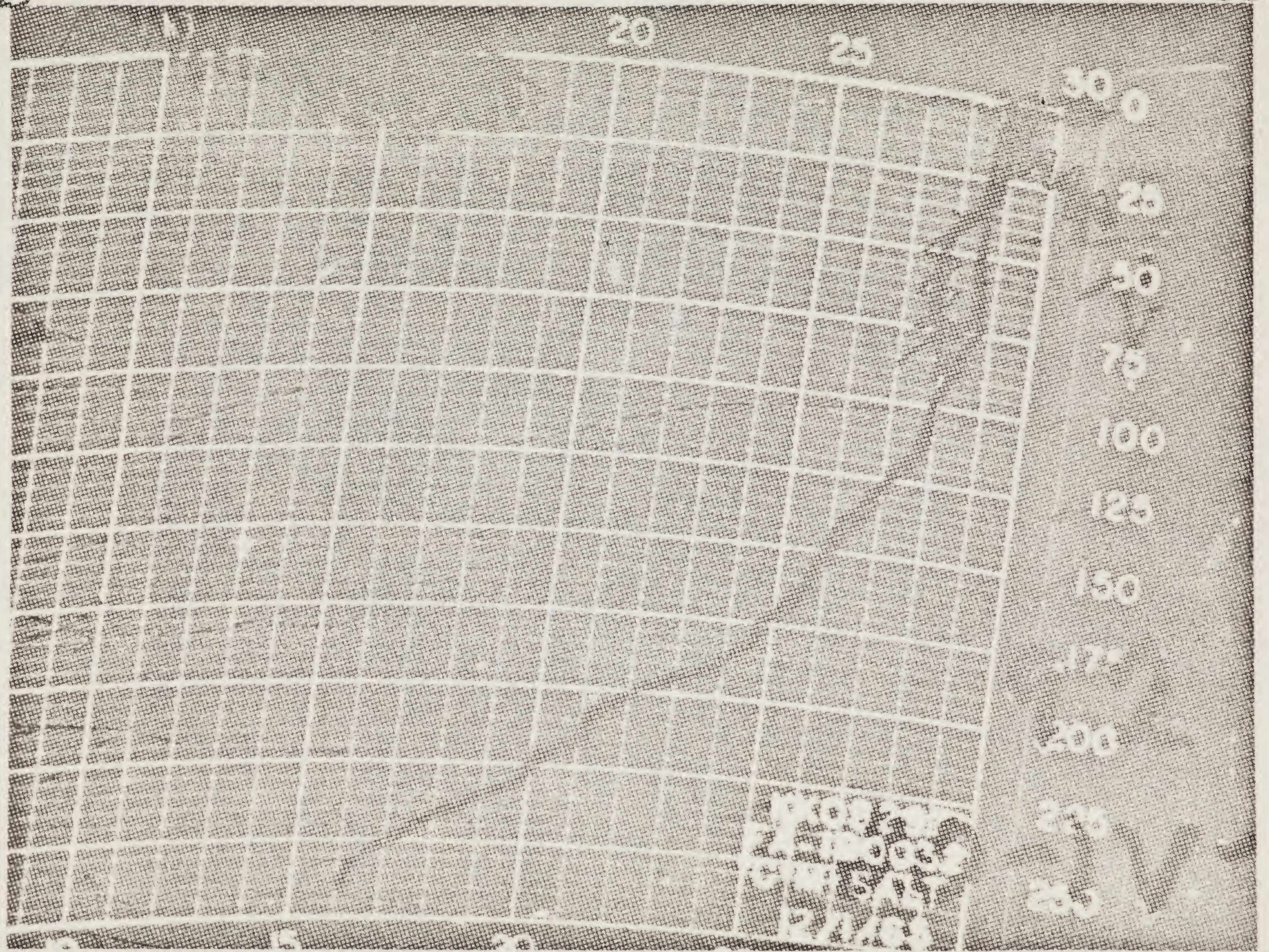


91

28.6









93

30.0





9

205





95

294





98

29.5





97

29.5





98

29.3





99

295





100

29.0





101

293





102

294





103

205





104

29.0





105

20.5









107

29.5





108

629





109

30.1





110

30.3





112

30.1









11/11

297





151

Page





16

29.6





117

29.8





18

29.5





119

295





120

28.7





121

29.0





122

29.3





123

29.2





124

28.9









126

28.7





127

286





128

28.4





129

28.5





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28.8





131

29.3









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28.7





194

291





135

28.8





136

28.7





137

29.3





138

28.5





139

284





140

28.5





141

285





142

22.5





143

28.6





144

28.5





145

28.2





146

283





147

276





48

28.8





49

28.8





150

28.8





151

28.9





152

28.6





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286





154

29.3





155

28.7









157

29.2





158

286





159

279









161

28.5





162

29.0





163

291





164

292





165

28.7





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285





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828





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225





169

29.0





170

28.7





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273





172

28.0





173

285





74

28.8





175

286





17

287





177

28.8





17X

28.5





179

284









181

29.0





182

285





183

284





184

279





185

27.8





186

279





187

270





188

27.9





189

28.8





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270





191

274





192

273





193

27.4





194

273





195

270





196

26.9





197

26.6





198

26.8





190

267





200

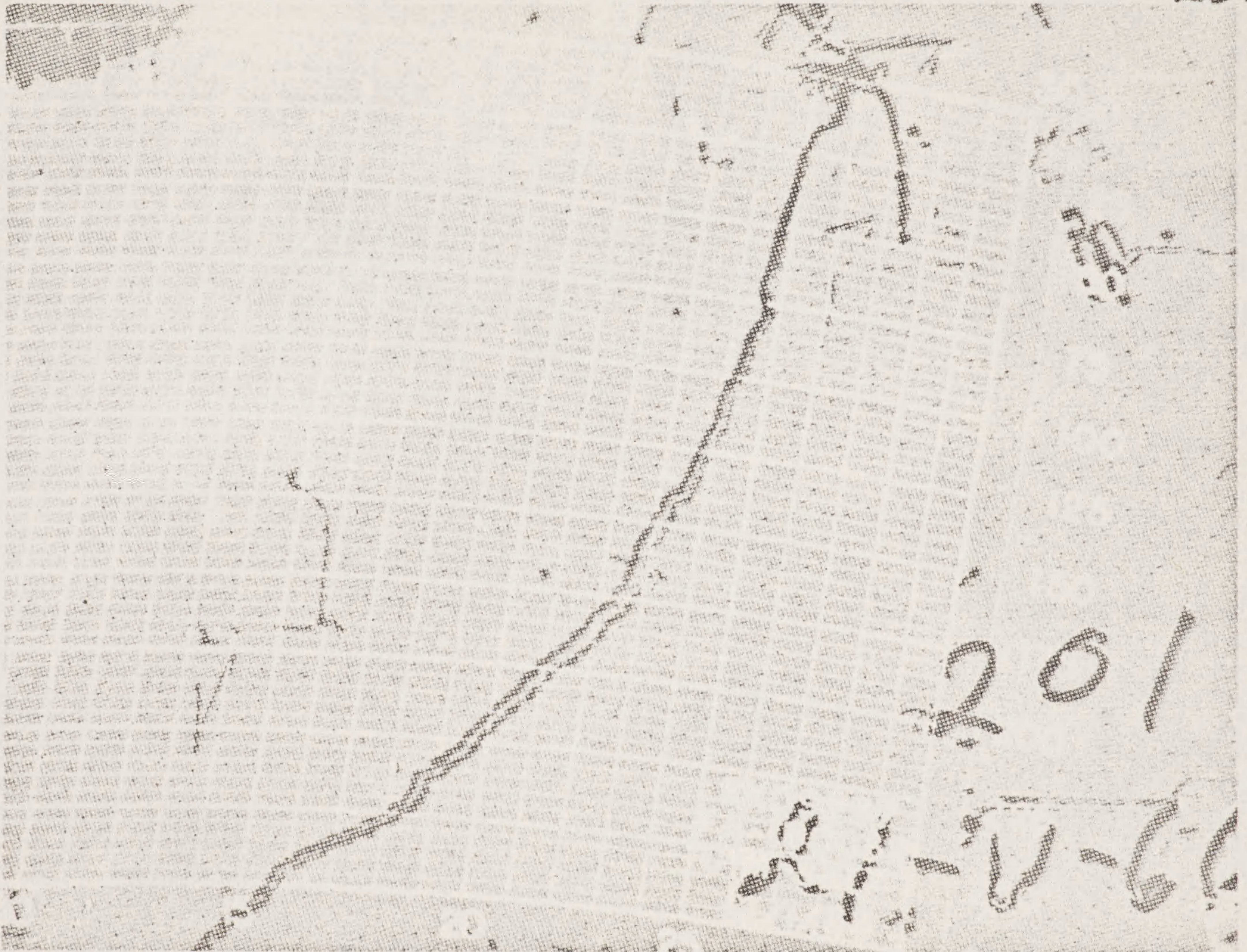
26.0





201

25.7





202

260





203

253





204

254



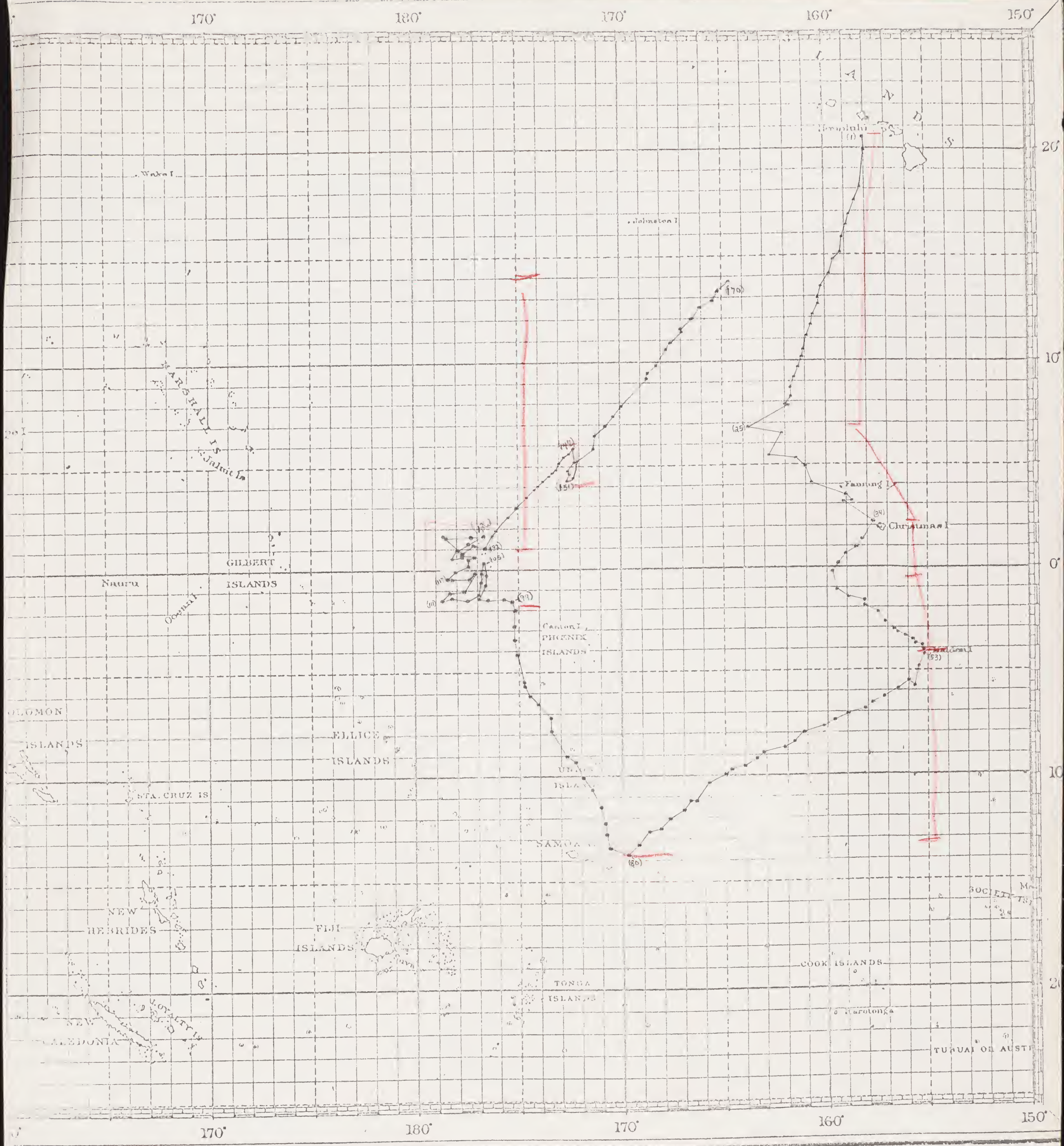
204  
 07

204

204

(OVER)





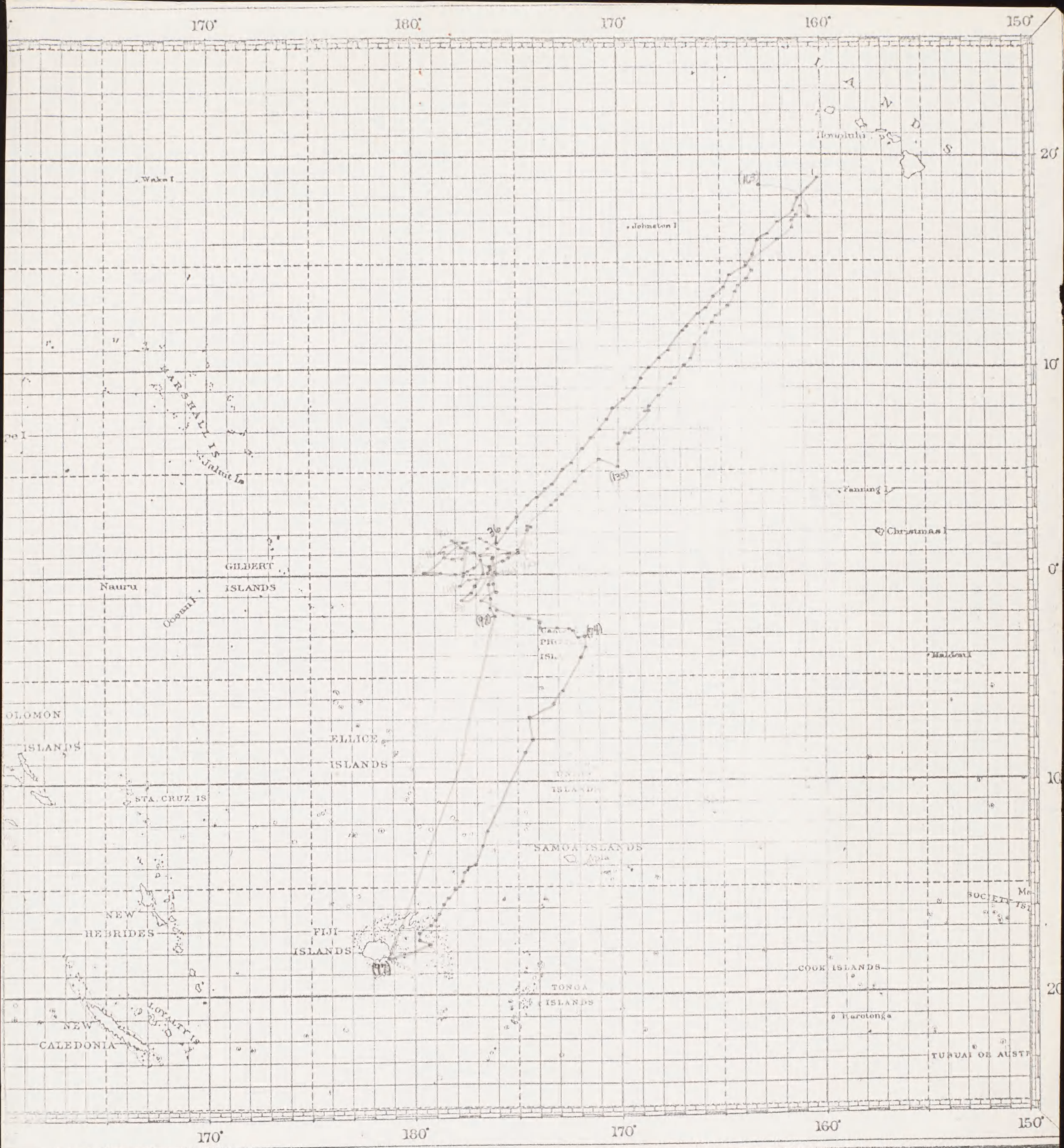
U.S.S.

George Eastman

March - April 1967

(YAG - 39)





*Drumville Hall*

BT log

Jan. - March 1967



Xerox one copy of each  
and send original book  
to Bob Pyle, give me the

Xerox copies

PJG 11 July, 1968



USNS

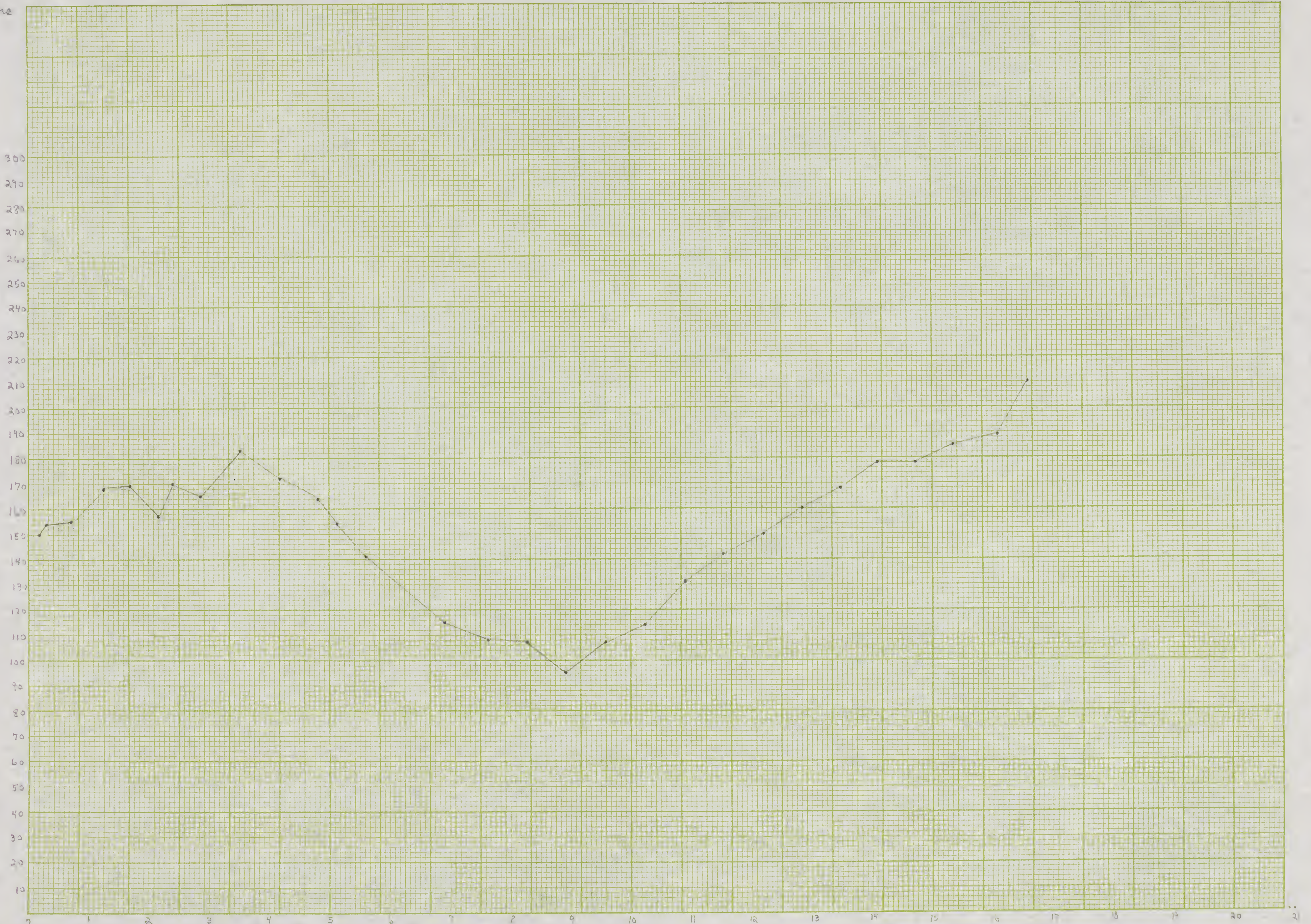
Shearwater Cruise 11/12

Jan. - March 1966

(20° depth)

Feb

meters

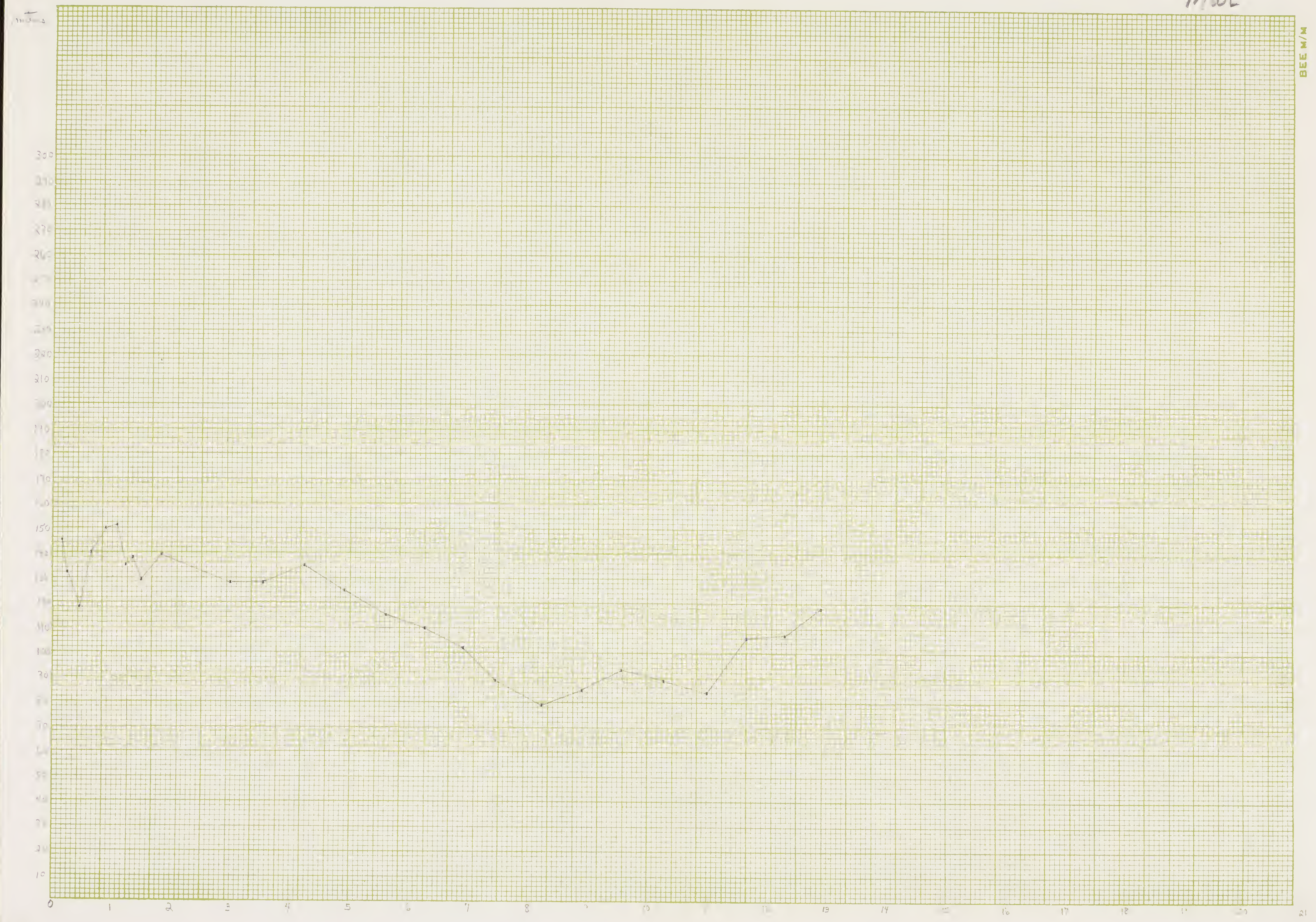


Lat.



USNS Shearwater Cruise # Jan. - March 1966 (20° depth) 0° to Honolulu

Mar



St. →



USNS

Shearwater Cruise 13

March - May 1966

(20° depth)

Apr

meters



(cont.)



USNS

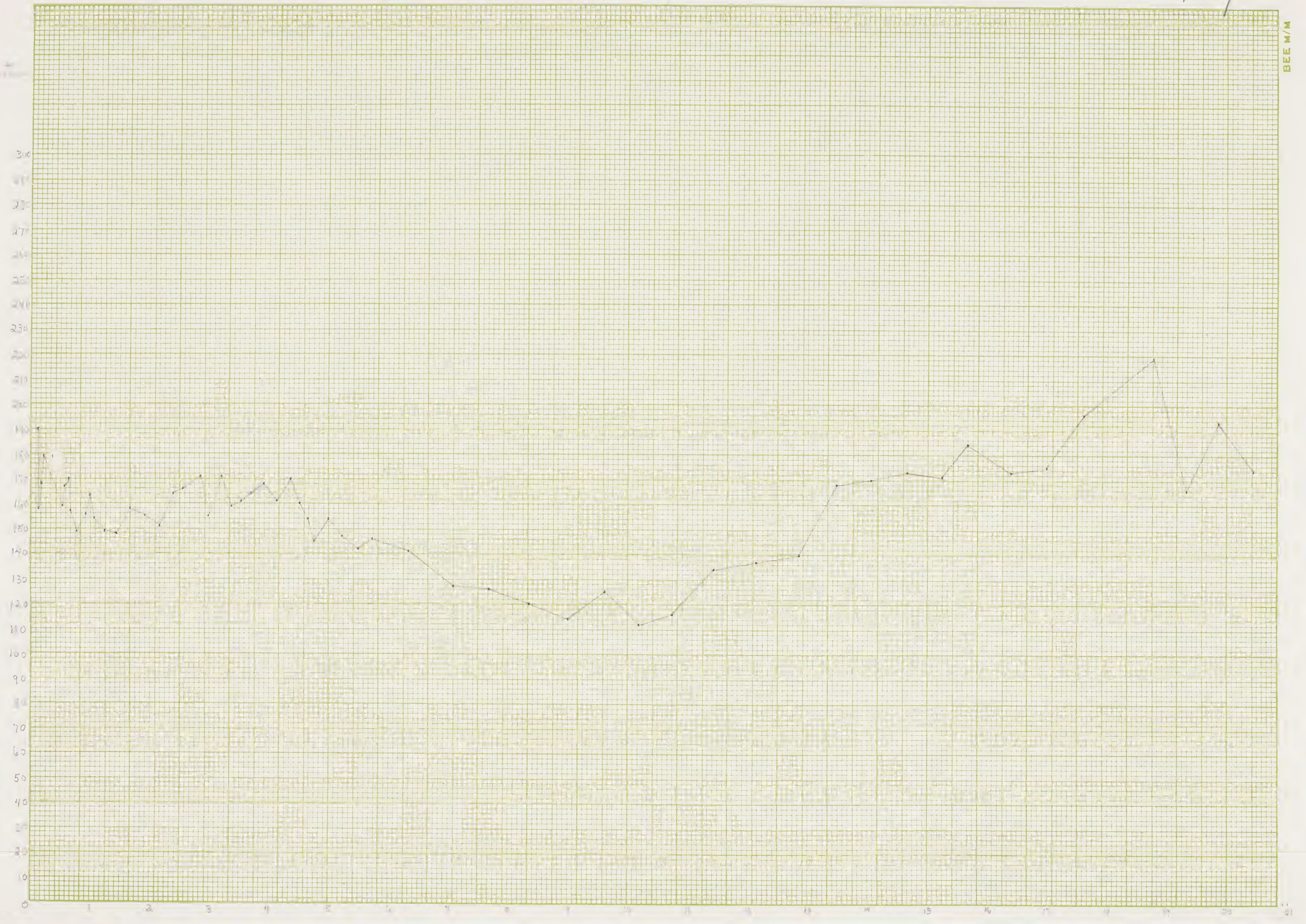
Shearwater

Cruise 13

March - May 1966

(20° depth)

0° to Honolulu  
May



BEE M/M

Lat. →



USNS

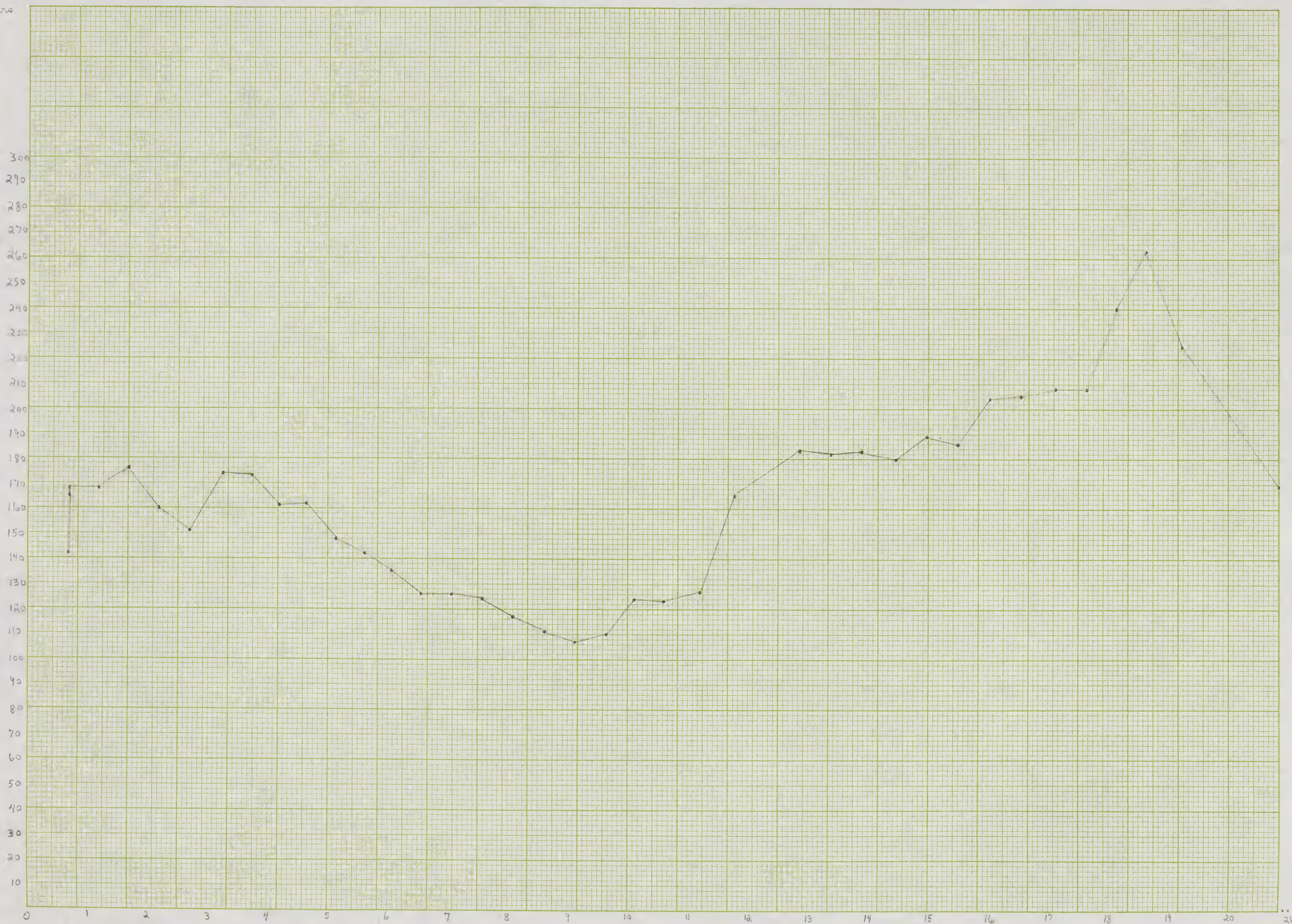
Shearwater

Cruise 14

July 1966

(20° depth)

meters



Lat.



USNS

Submarine

Course 14

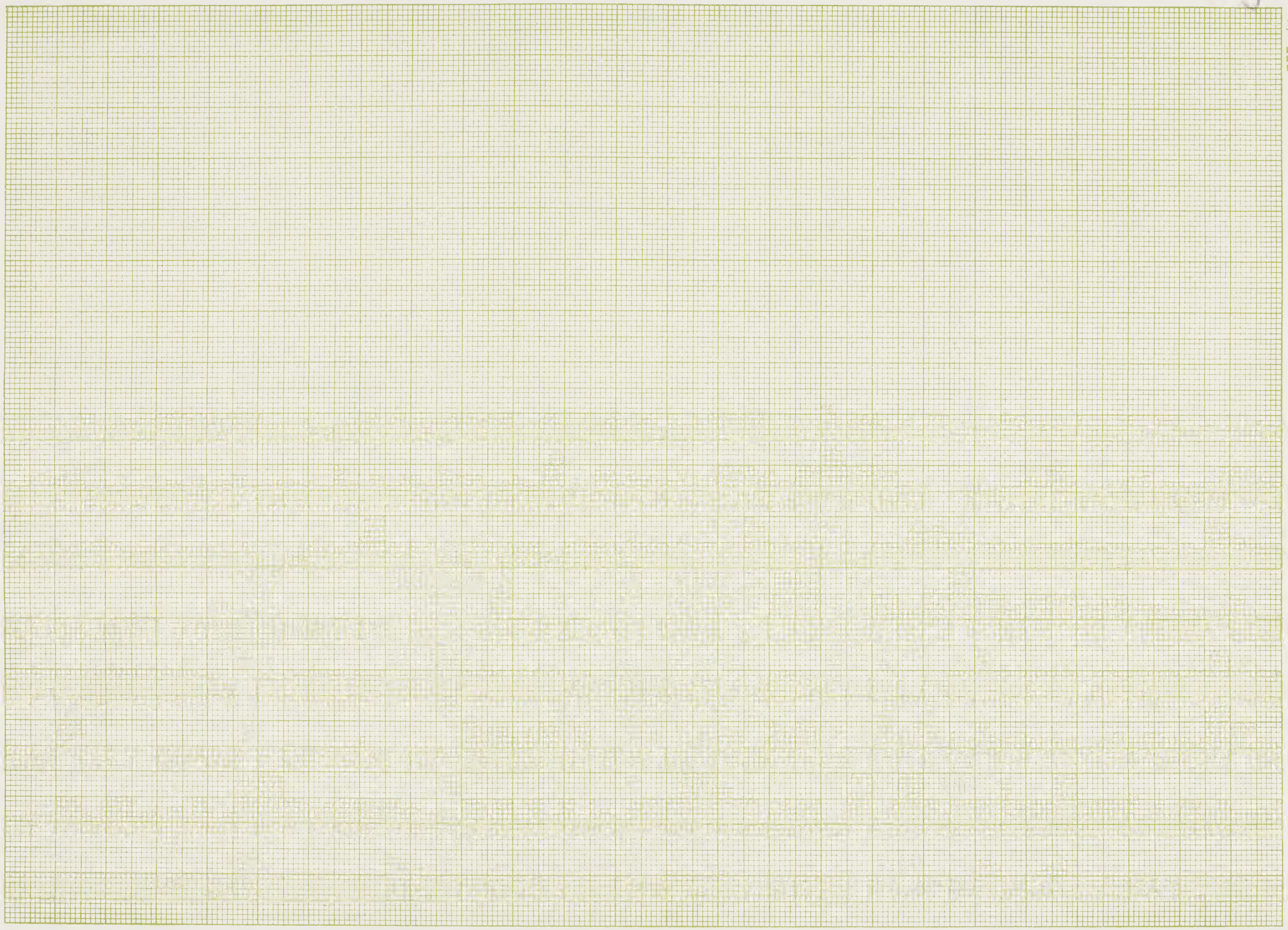
July 1966

(20° Sept)

8° to Hampton

Aug

BEE M/N



No return Sept - 1966!



Shearwater

Cruise 11

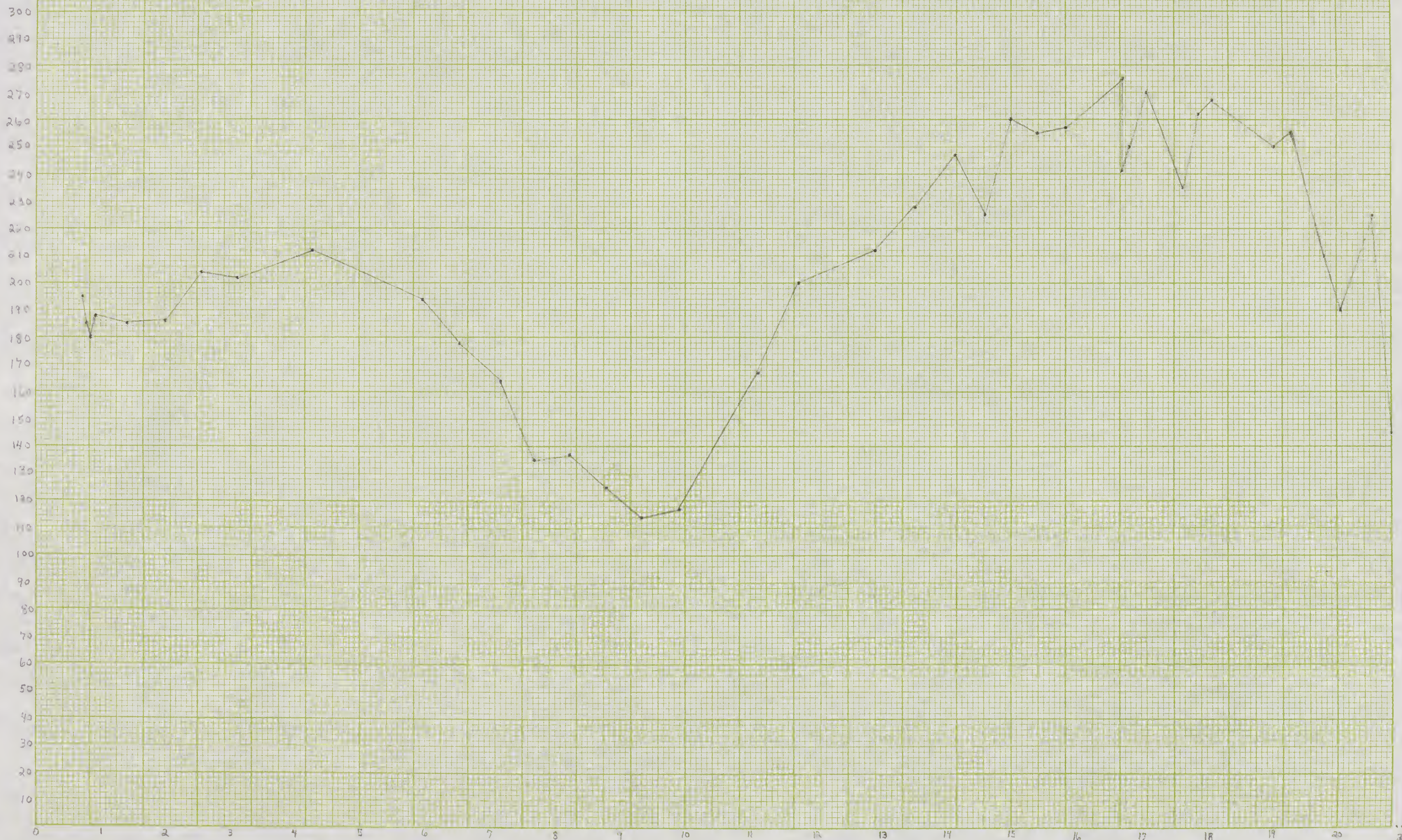
(SIC-15)

Sept. - Oct. 1966

(20° depth)

Sept

meters



(cont.)



Stations

Cruise 11

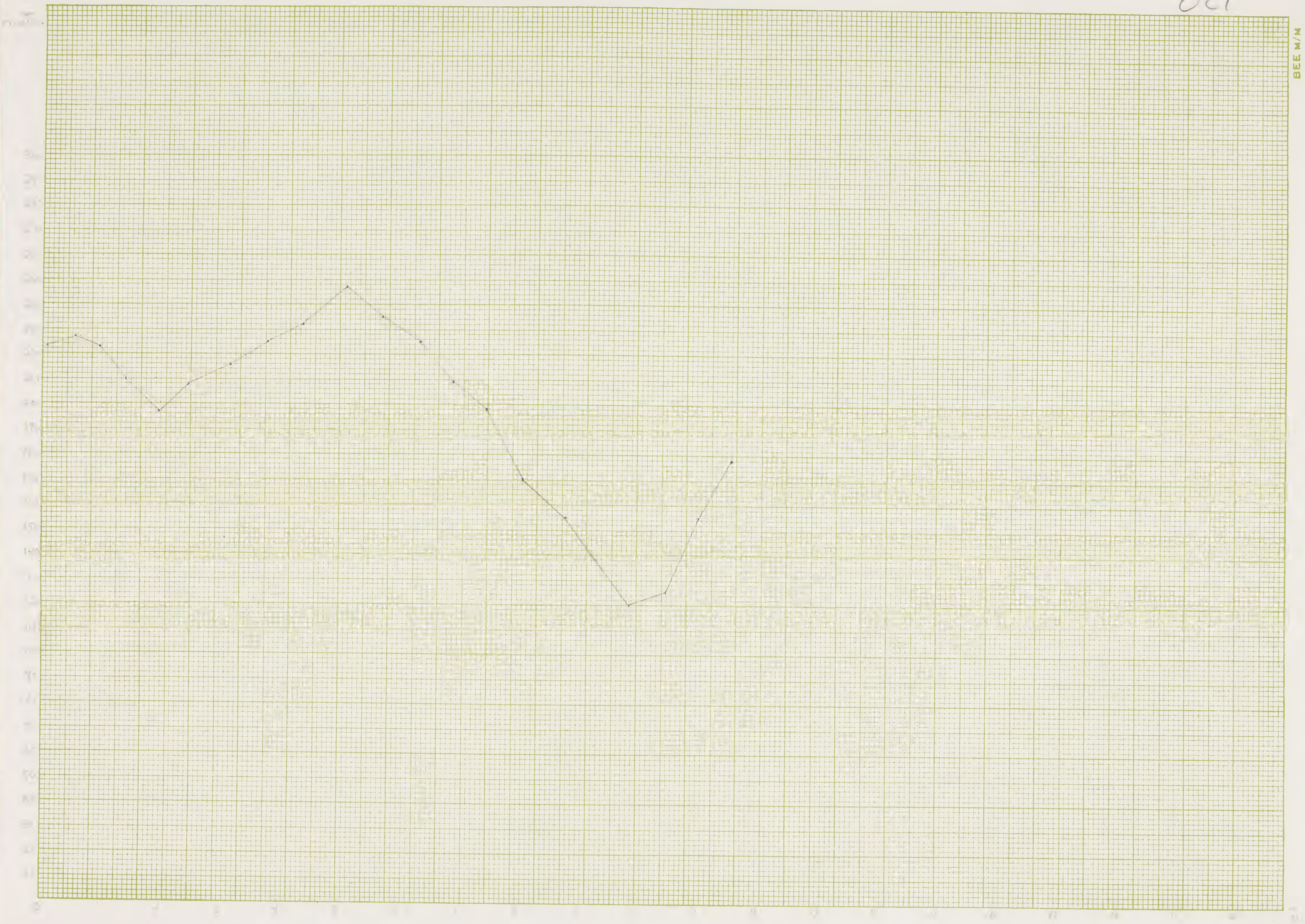
(11-15)

Sept. - Oct. 1966

(20° depth)

U.S. Navy

Oct



BEE M/M

0 →



Shearwater

Cruise 20

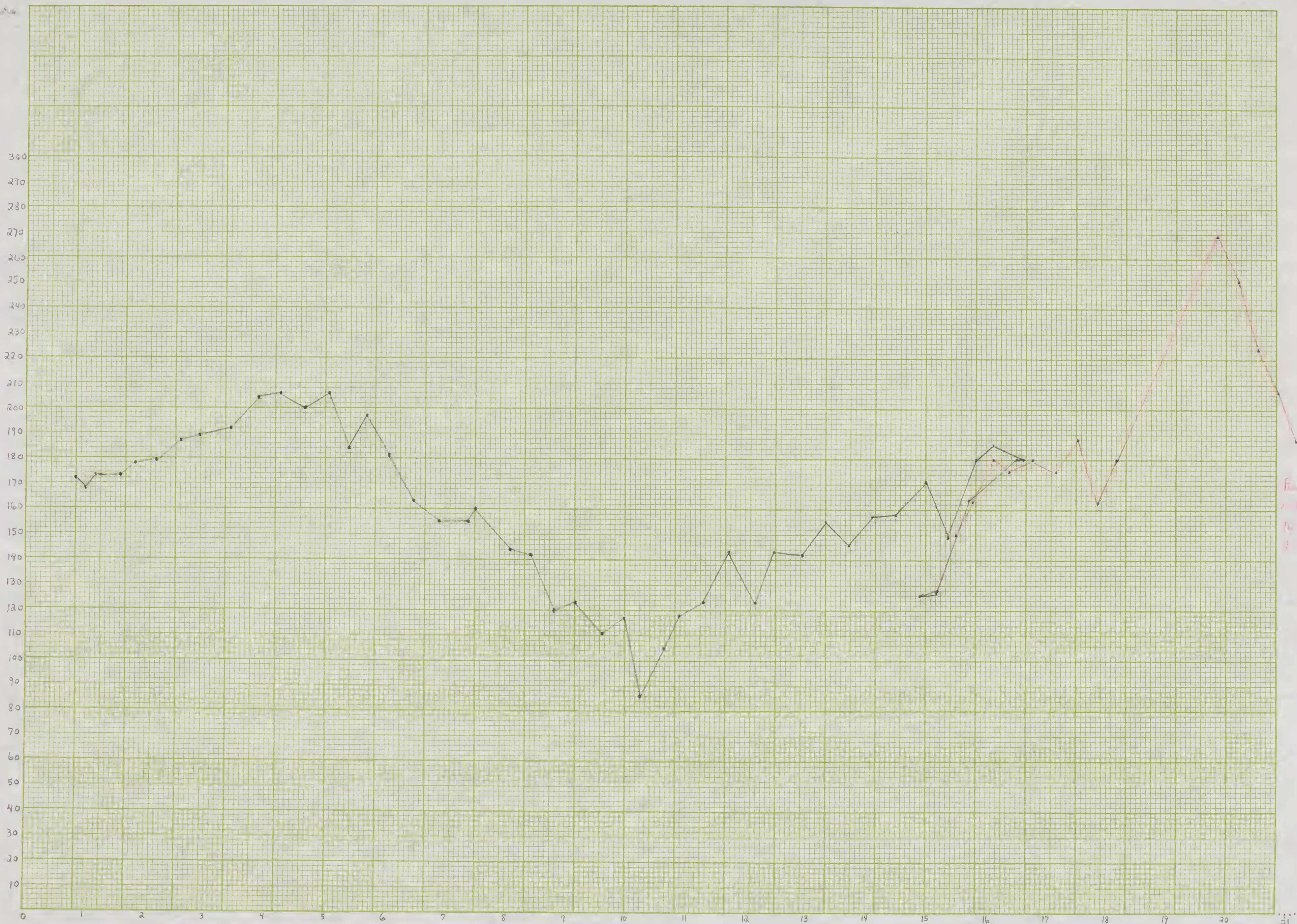
(Sic-16)

Nov. - Dec. 1966

(20° depth)

Nov

meters



lat.

21



St. Louis

Cruise 20

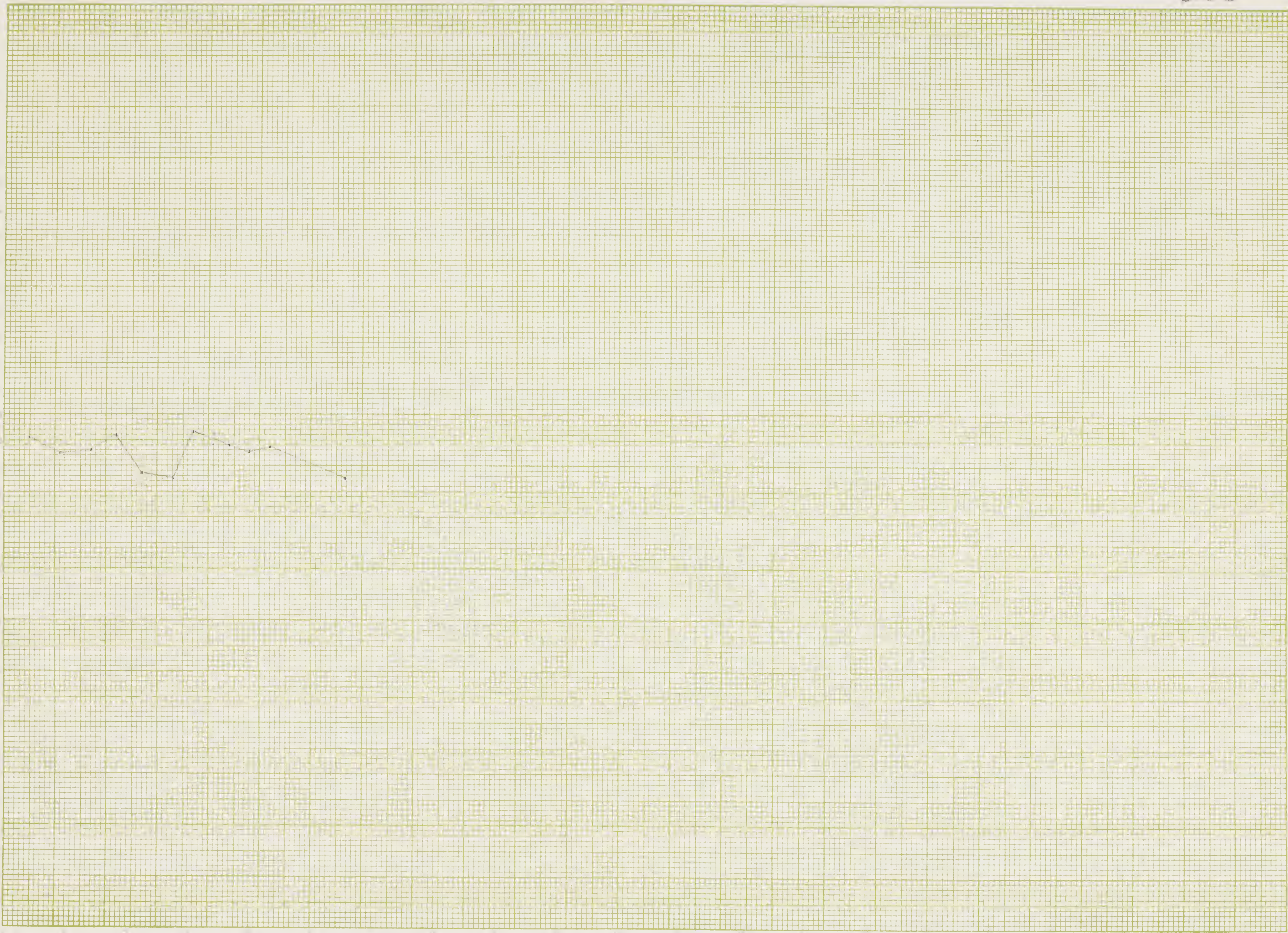
(Sic-16)

Nov. - Dec. 1966

(20° N)

0°E 7.5m

Dec



Lat. →

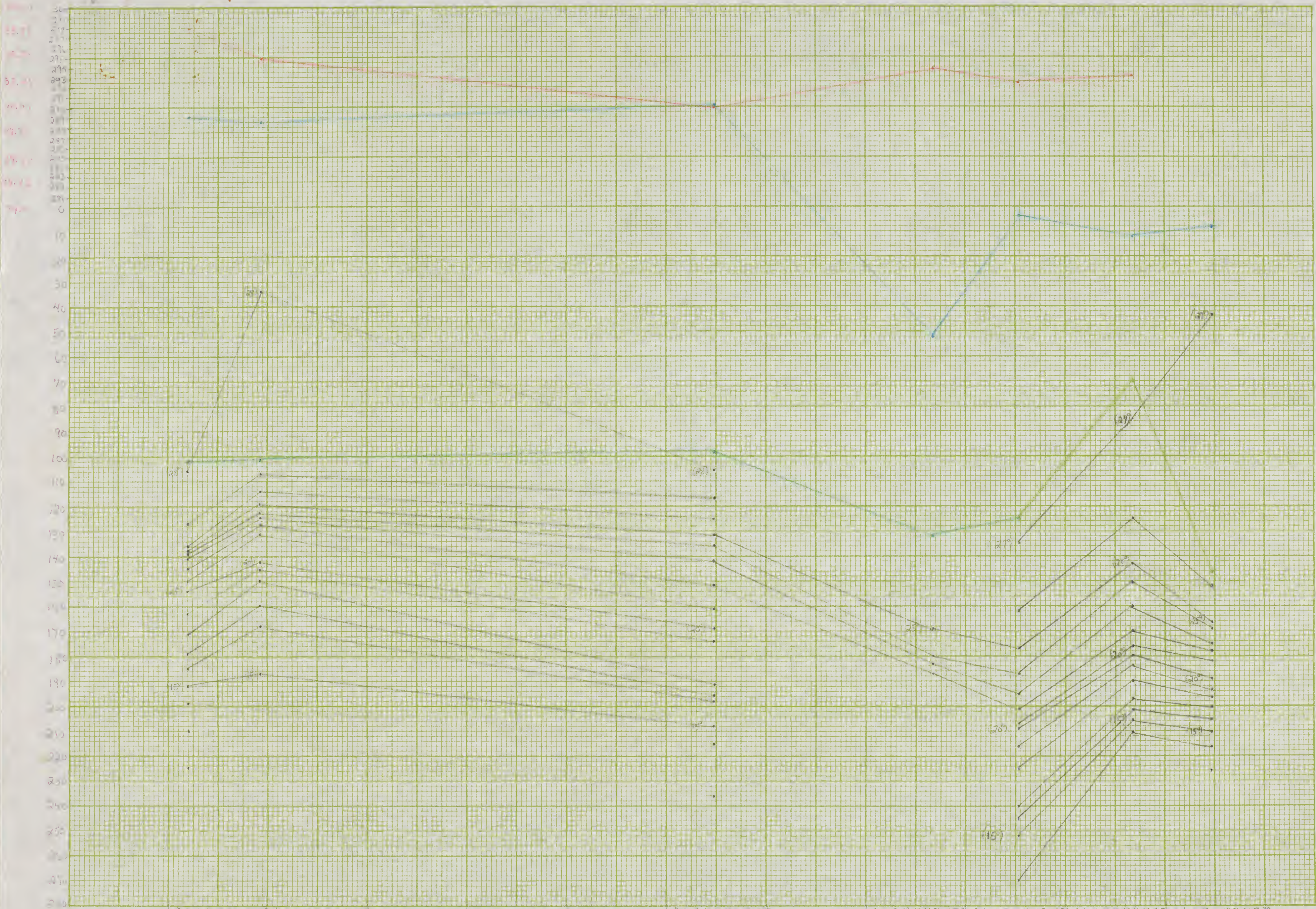


Station 1

175° - 176° W and 1° - 2° N

1966 - 1967  
100 - 1000

175° - 176° W



Jan Feb March April May June July August Sept Oct Nov Dec

1966

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM

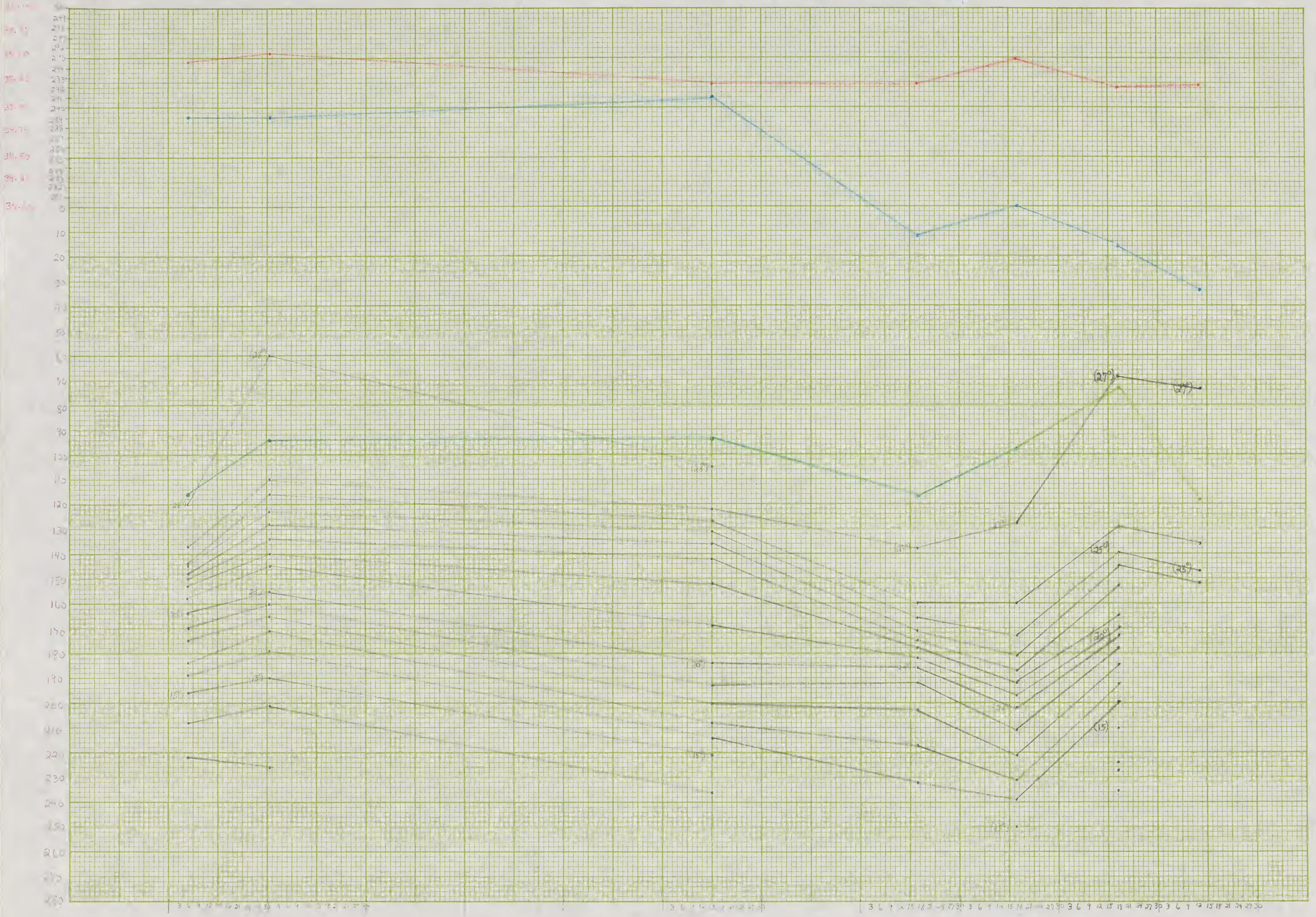


Square 2

176° - 177° W and 1° - 2° N

Red line - Sea level  
Blue line - 100 fms

Station 27



Jan.      Feb.      Mar.      April      May      June      July      Aug.      Sept.      Oct.      Nov.      Dec.

Year 1966

KEUFFEL & ESSER CO.  
 MADE IN U.S.A.  
 KE 10 X 10 TO THE CENTIMETER 46 1512  
 18 X 25 CM.

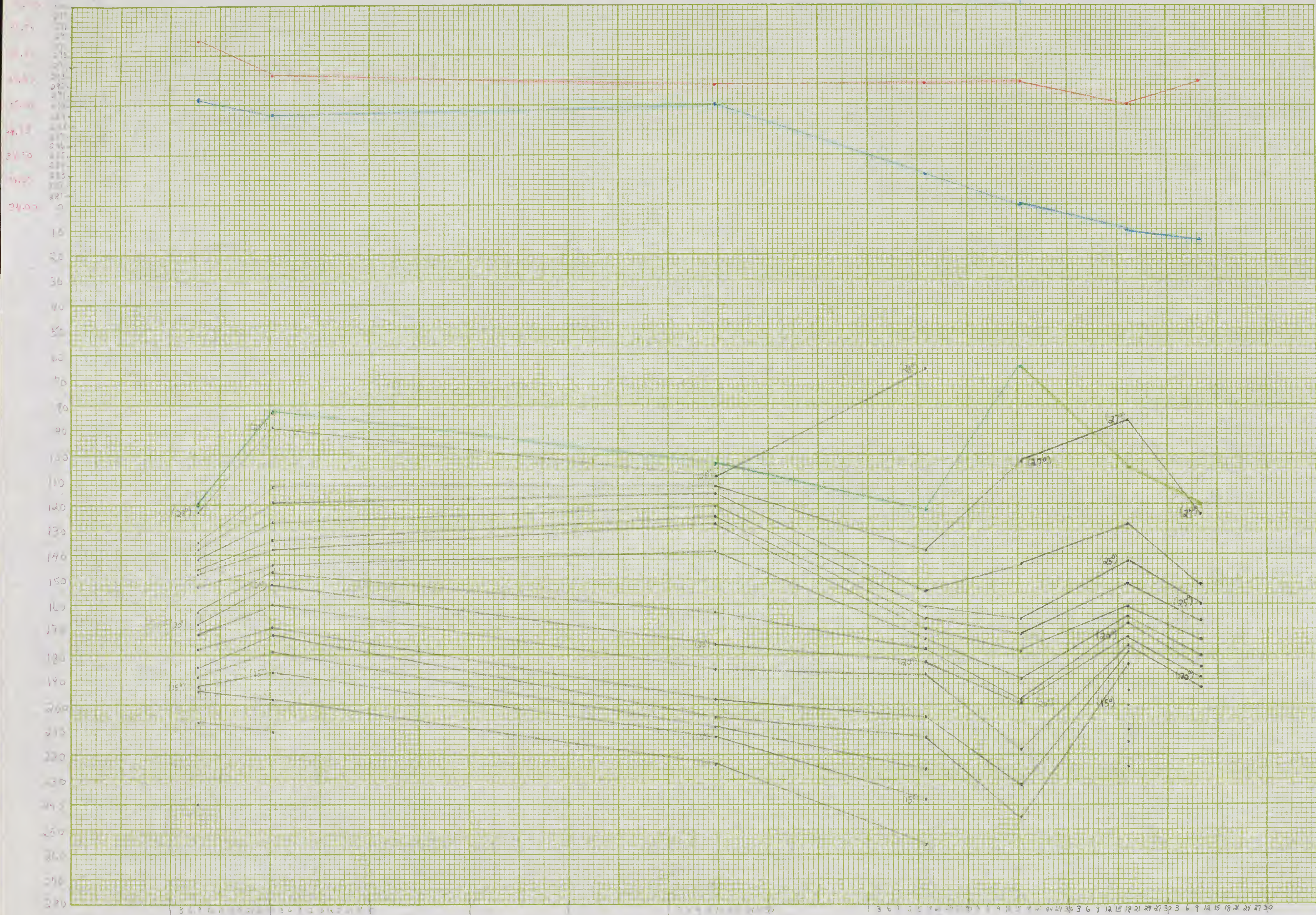


Square 3

177° - 178° W and 1° - 2° N

Plot date - Aug 23/66  
Plot date - 11 Aug

25m J.T. - 11 Aug



Jan Feb Mar April May June July Aug Sept Oct Nov Dec

Year 1966

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K&E 10 X 10 TO THE CENTIMETER 46 1512 18 X 25 CM.

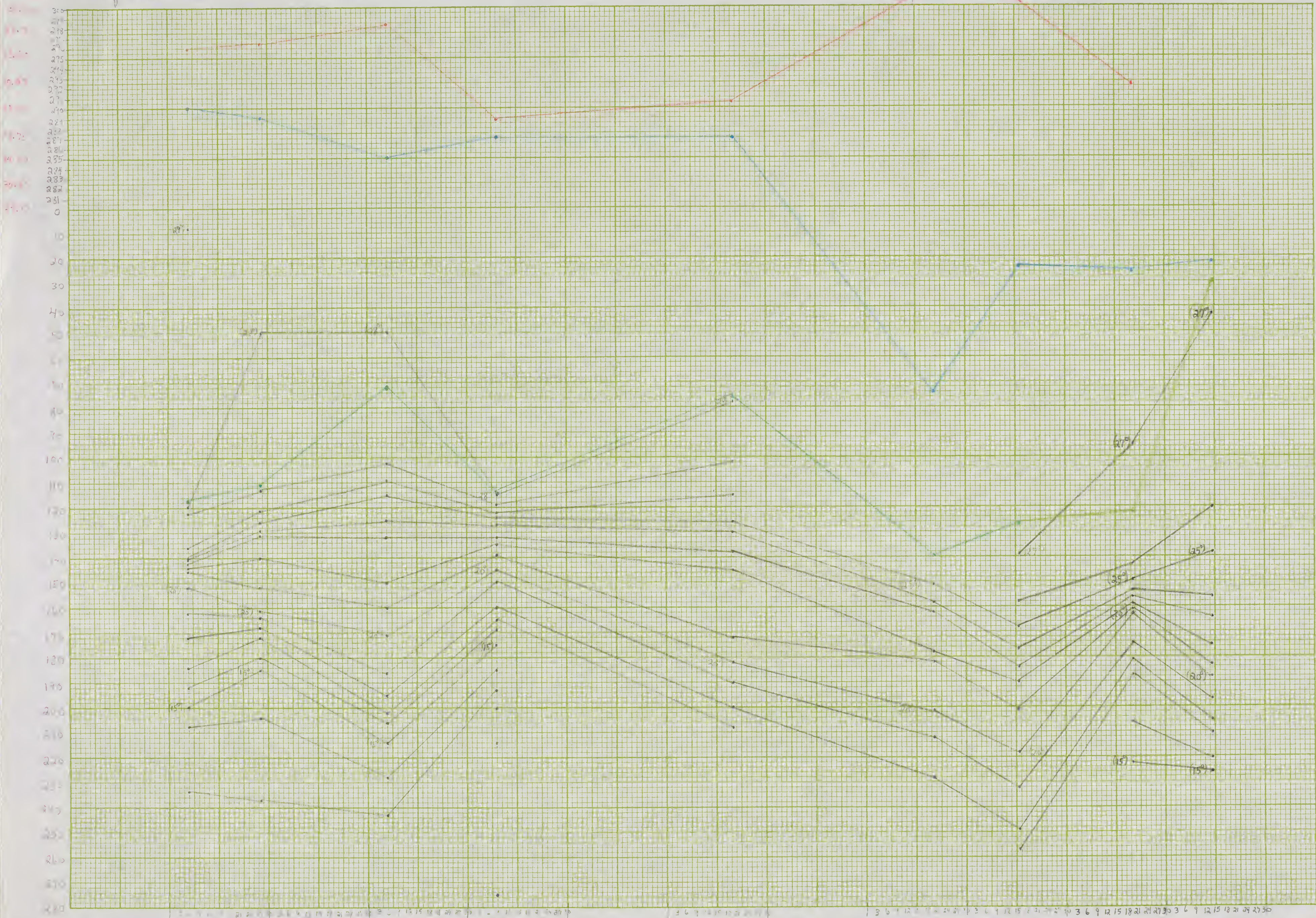


Square 4

175° - 176° W and 0 - 1° N

1830 Aug 21/54  
21.1

21.1



July Aug Sept Oct Nov Dec

Year 1954

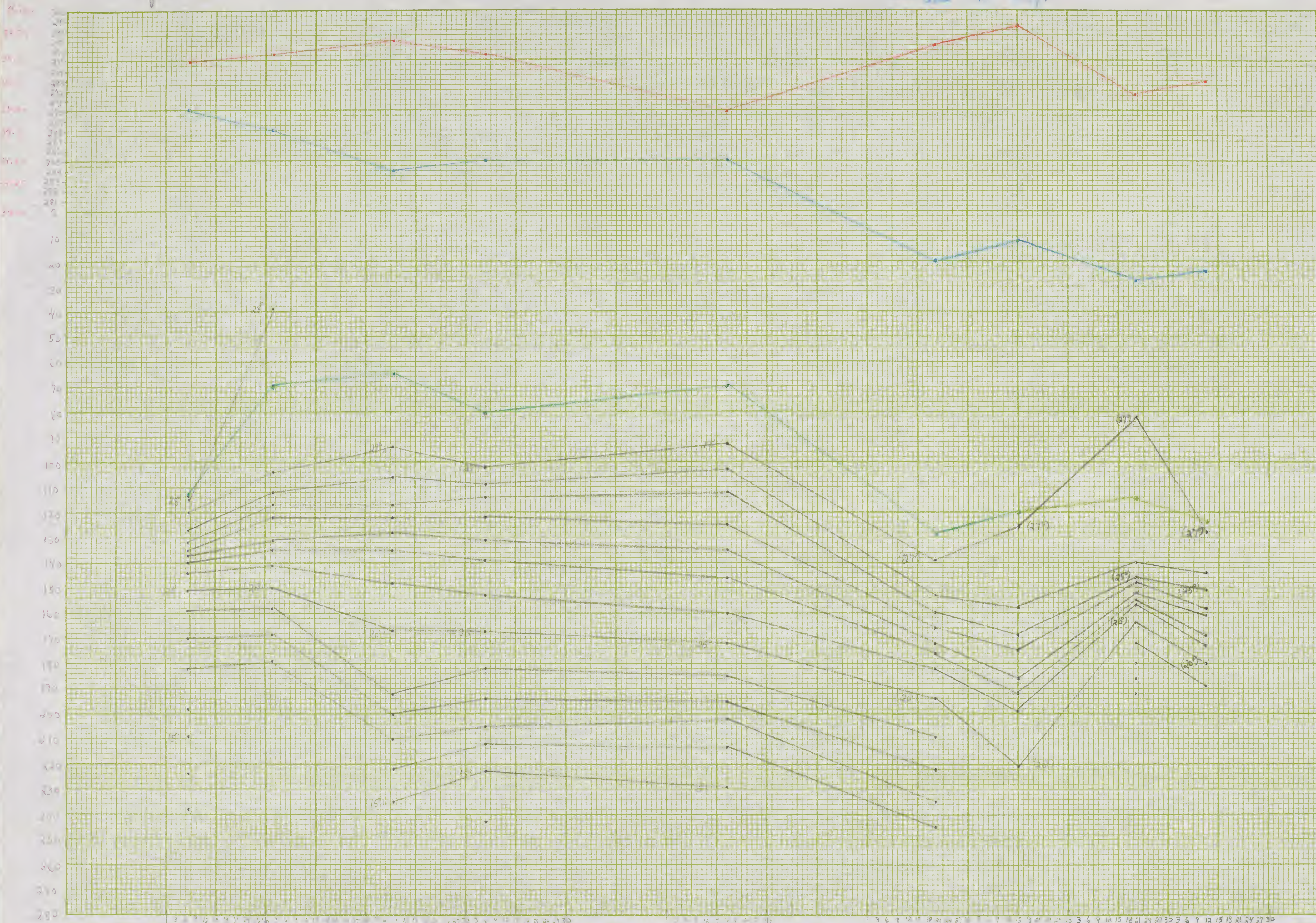
KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K+E  
10 X 10 TO THE CENTIMETER  
46 1512  
18 X 25 CM.



Square 5

176° - 177° W and 0 - 1° N

Red dots - 1000 ft  
Blue dots - 1000 ft



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

Year 1966

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K#E 10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM

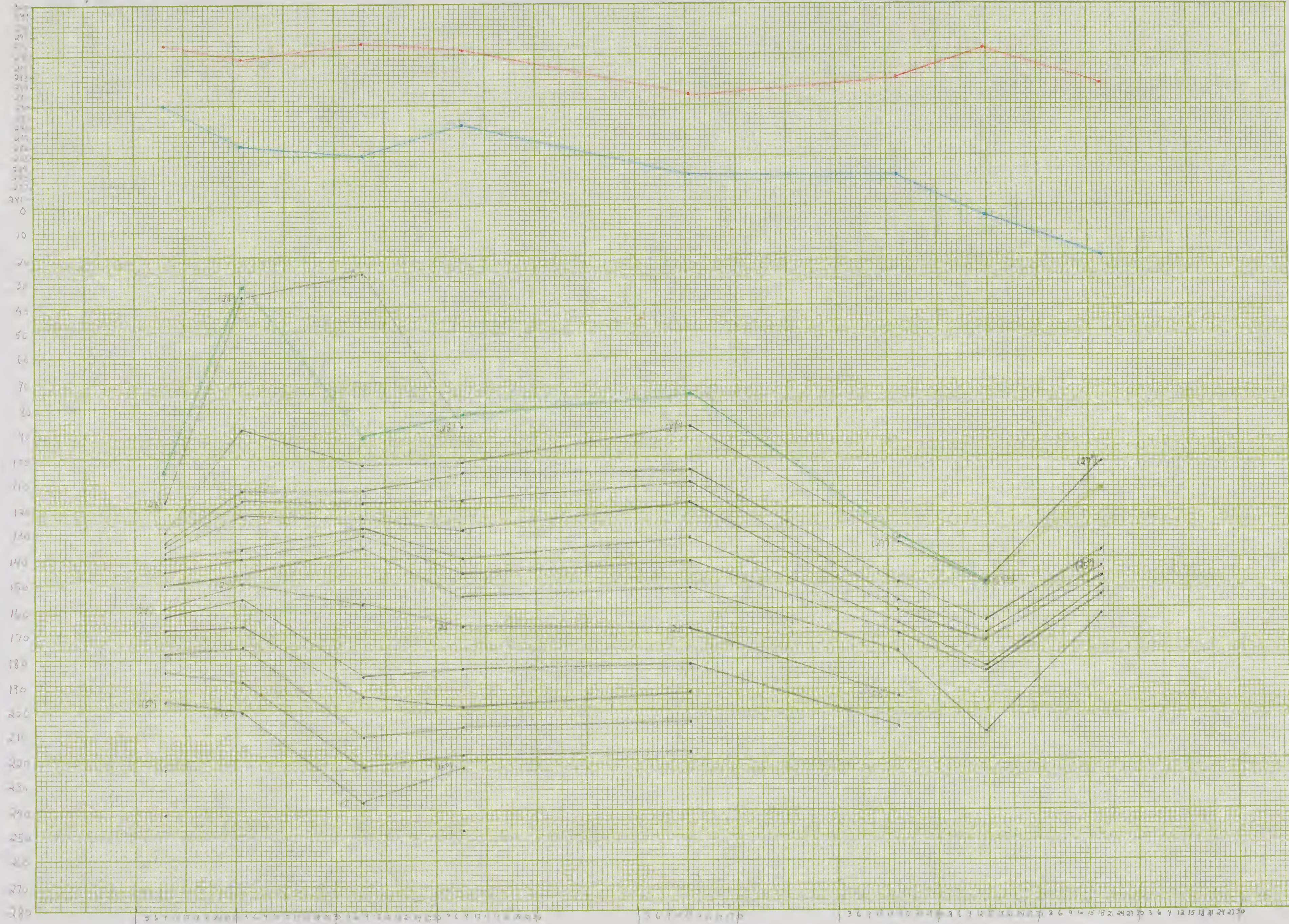


Square 6

177° - 178° W and 0 - 1° N

1961  
8-12-61

2000 - 2100



Feb Mar April May June July Aug Sep Oct Nov Dec

year 1961

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K+E 10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM.

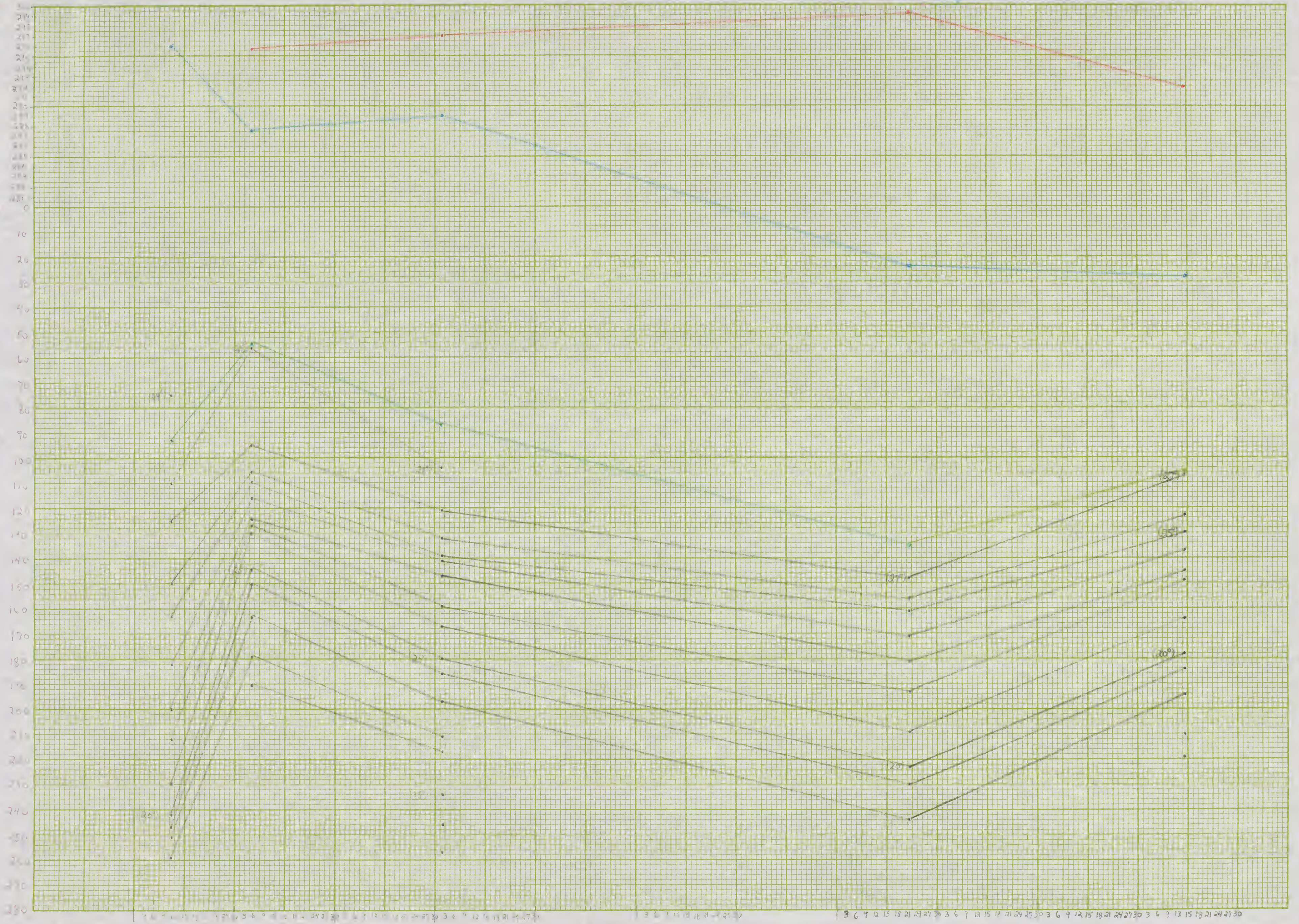


Square 7

175° - 176° W and 0 - 1° S

LAB 872 - Long Island  
Cruise 872 - 11 Aug.

Station 175-01



Jan Feb March April May June July Aug Sept Oct Nov Dec

year 1966

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
10 X 10 TO THE CENTIMETER  
46 1512  
18 X 25 CM.

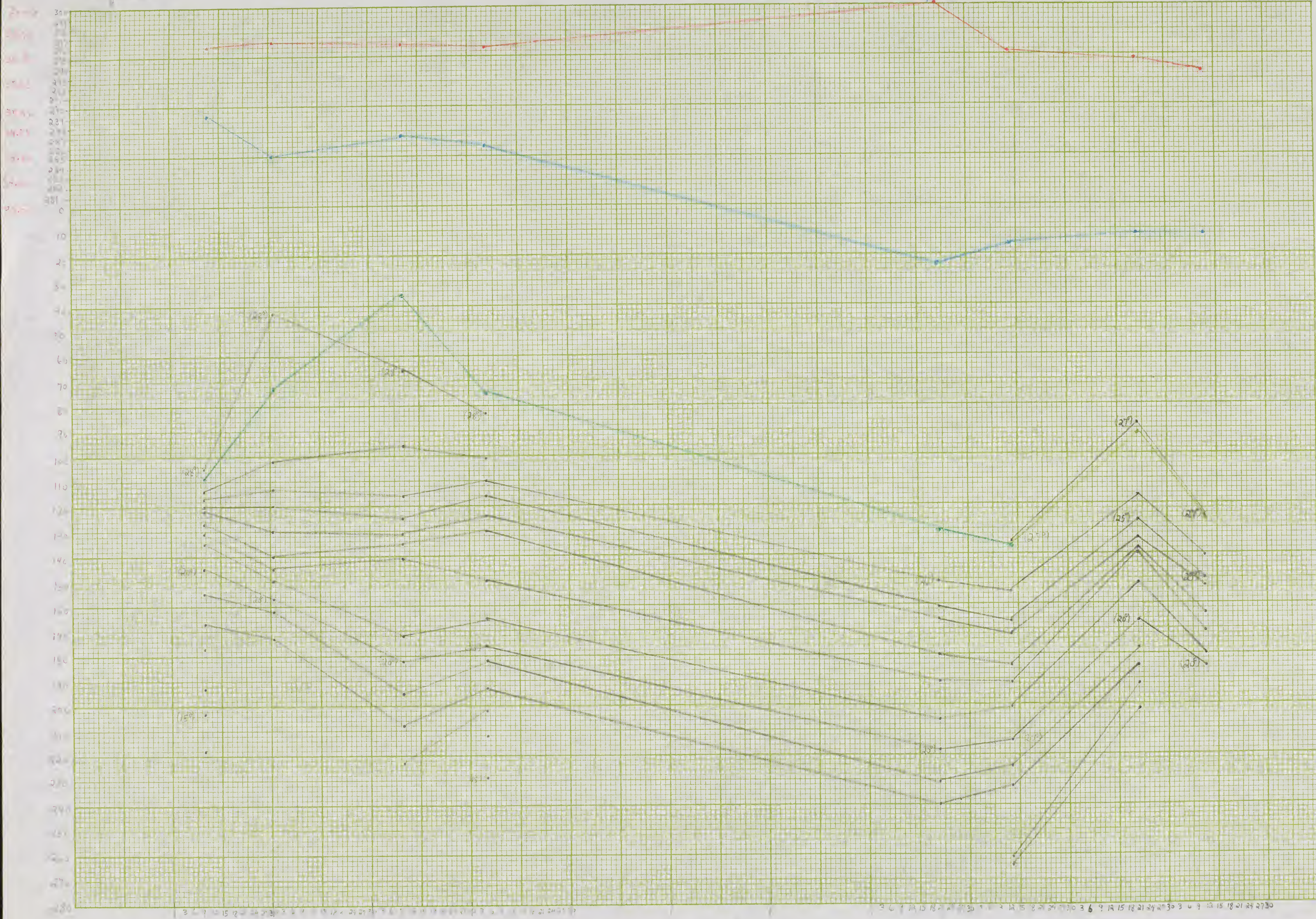


Figure 8

176° - 177° W and 0 - 1° S

Red dots - Long Salinity  
Blue dots - ST Temp

Green dots - Temperature



Jan Feb March April May June July Aug Sept Oct Nov Dec

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K+E  
10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM.

April 1966

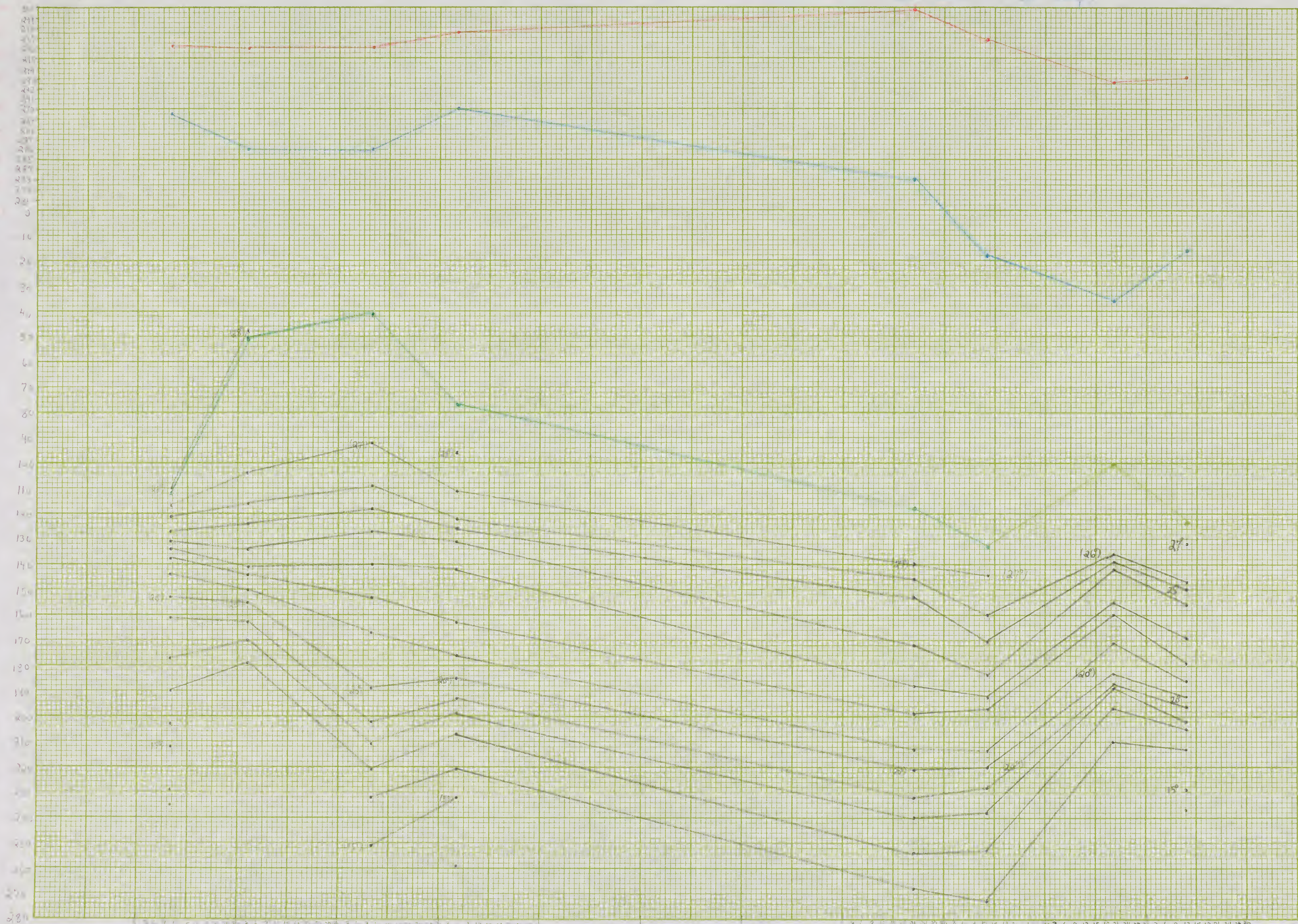


Square 9

177°-178° W and 0-1° S

R.L. 177 - 200 200  
R.L. 178 - BT 200

Over Date - 7/1/51



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

Year 1951

KEUFFEL & ESSER CO.  
18 X 25 CM.  
10 X 10 TO THE CENTIMETER 46 1512  
MADE IN U.S.A.

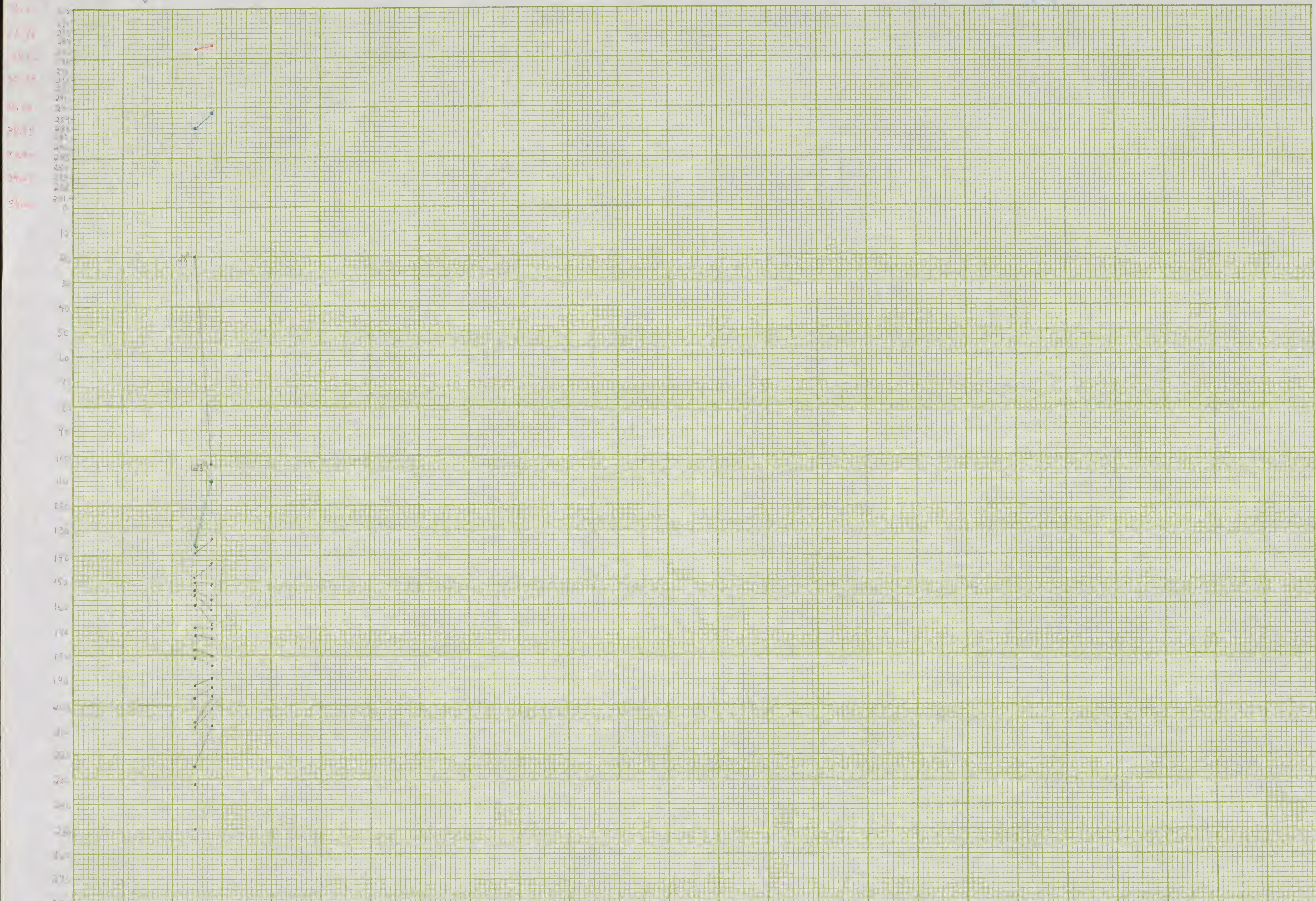


Square 10

175° - 176° W and 1° - 2° S

Red dots - temp. salinity  
Blue dots - ST temp.

Q - 1.5 - 1.8 - 2.0



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM.

approx. 1.5



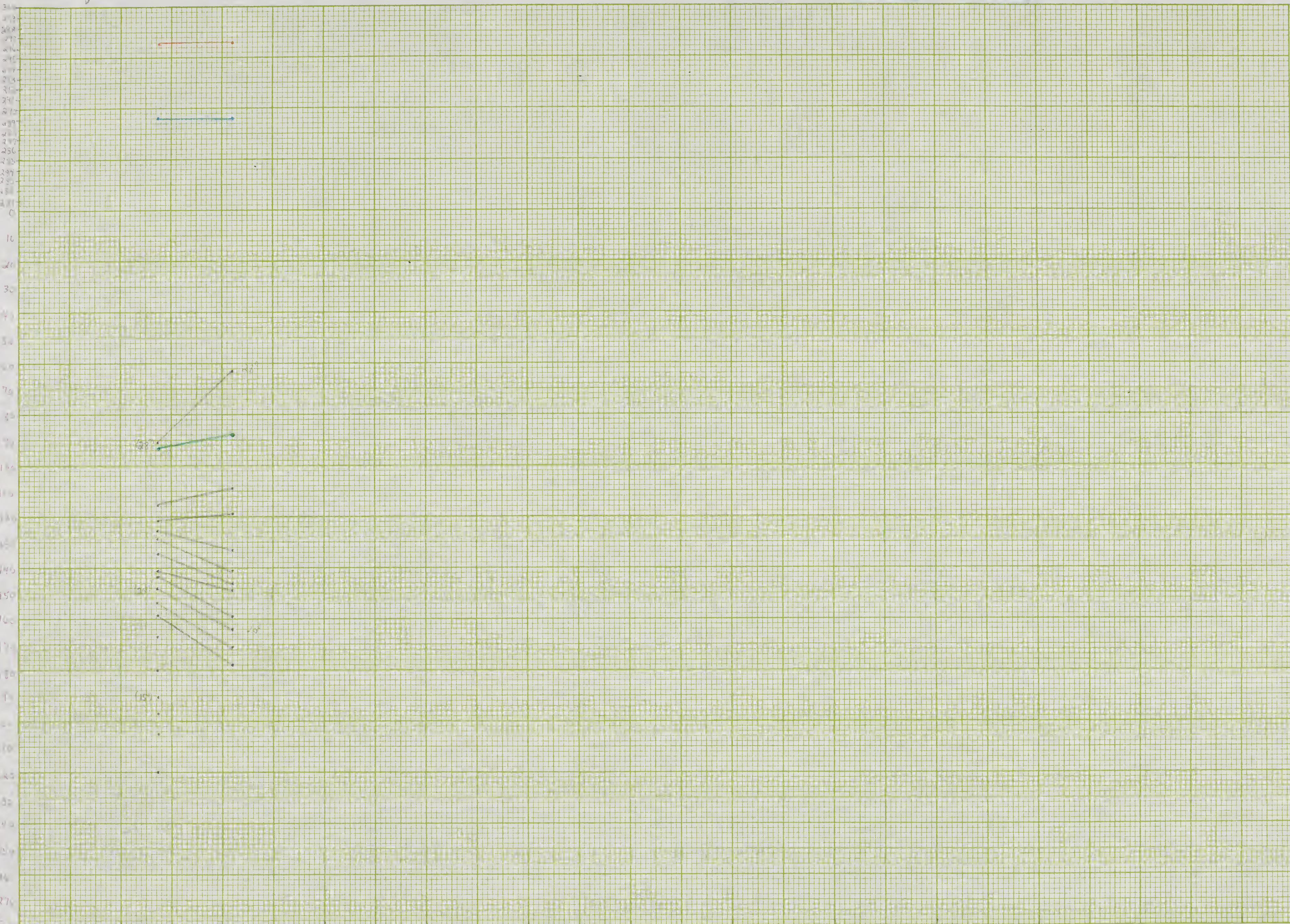
Square 11

176° - 177° W and 1° - 2° S

Red dots - Long. Density  
Blue dots - PT Temp

Green dots - Temp

24.0  
23.5  
23.0  
22.5  
22.0  
21.5  
21.0  
20.5  
20.0  
19.5  
19.0  
18.5  
18.0  
17.5  
17.0  
16.5  
16.0  
15.5  
15.0  
14.5  
14.0  
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11.5  
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10.0  
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8.5  
8.0  
7.5  
7.0  
6.5  
6.0  
5.5  
5.0  
4.5  
4.0  
3.5  
3.0  
2.5  
2.0  
1.5  
1.0  
0.5  
0



Jan Feb March April May June July Aug Sept Oct Nov Dec

year 1966

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM.



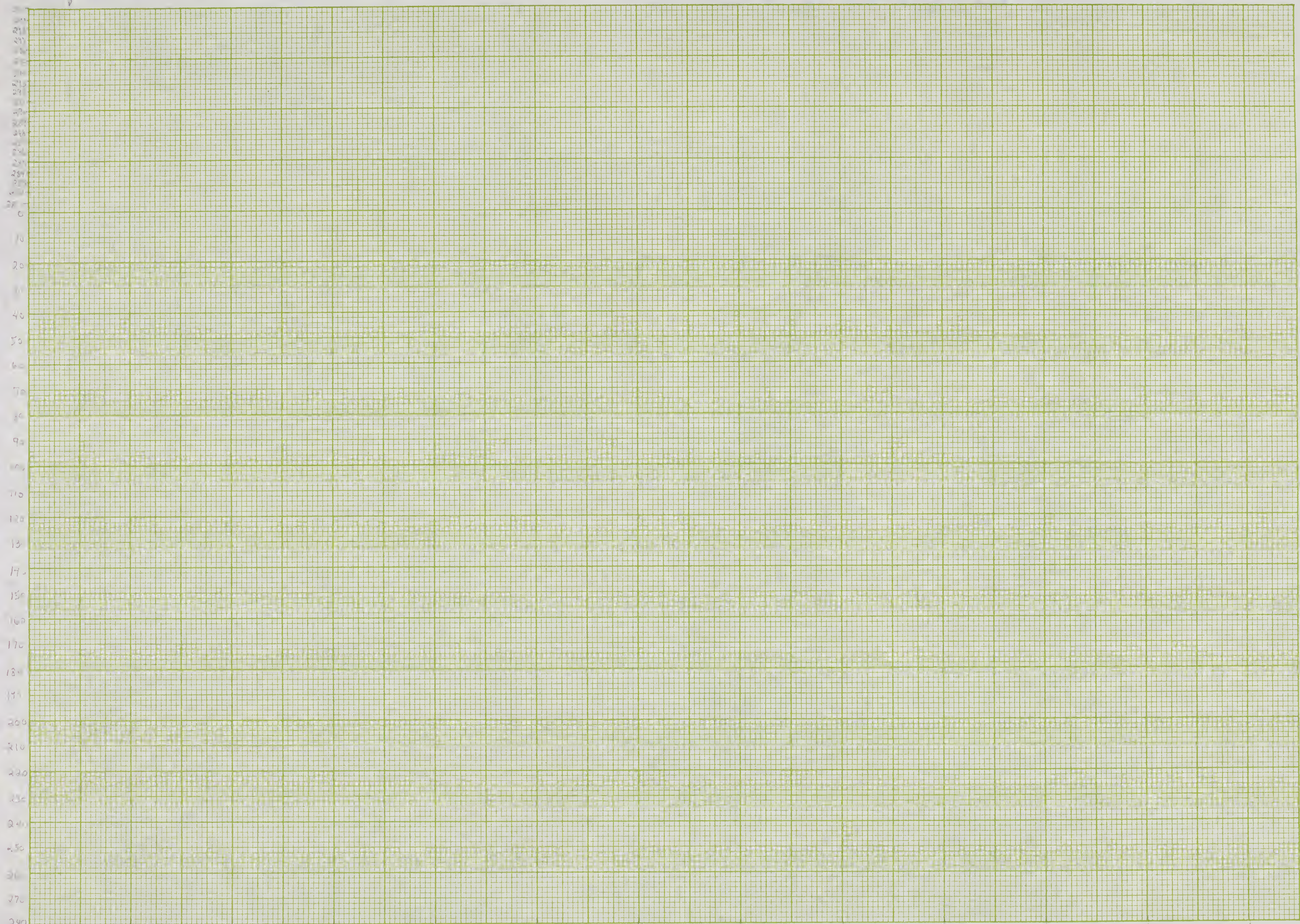
Square 12

177° - 178° W

and 1° - 2° S

Red dots = Day 1  
Blue dots = PT Day

177° - 178° W



Jan Feb March April May June July Aug. Sept Oct Nov Dec

Year 1966

KEUFFEL & ESSER CO.  
 10 X 10 TO THE CENTIMETER 46 1512  
 18 X 25 CM.  
 MADE IN U.S.A.

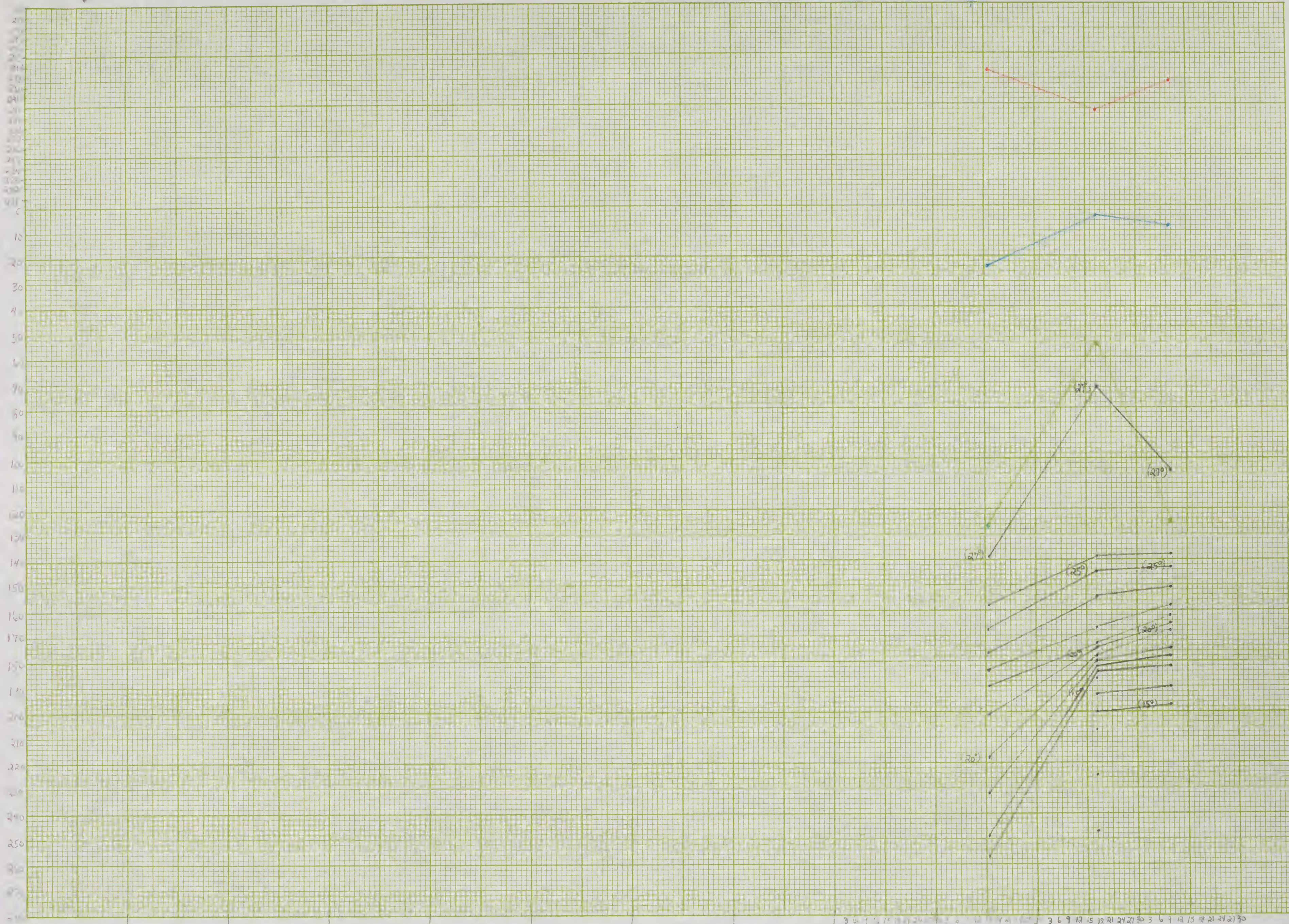


Square 13

178° - 179° W and 1° - 2° N.

Red dots - Log Salinity  
Blue dots - DT Temp.

Thin dots - Temperature



Jan Feb Mar April May June July Aug Sept Oct Nov Dec

KEUFFEL & ESSER CO.  
K#E 10 X 10 TO THE CENTIMETER 46 1512  
MADE IN U.S.A. 18 X 25 CM.

9/11/66

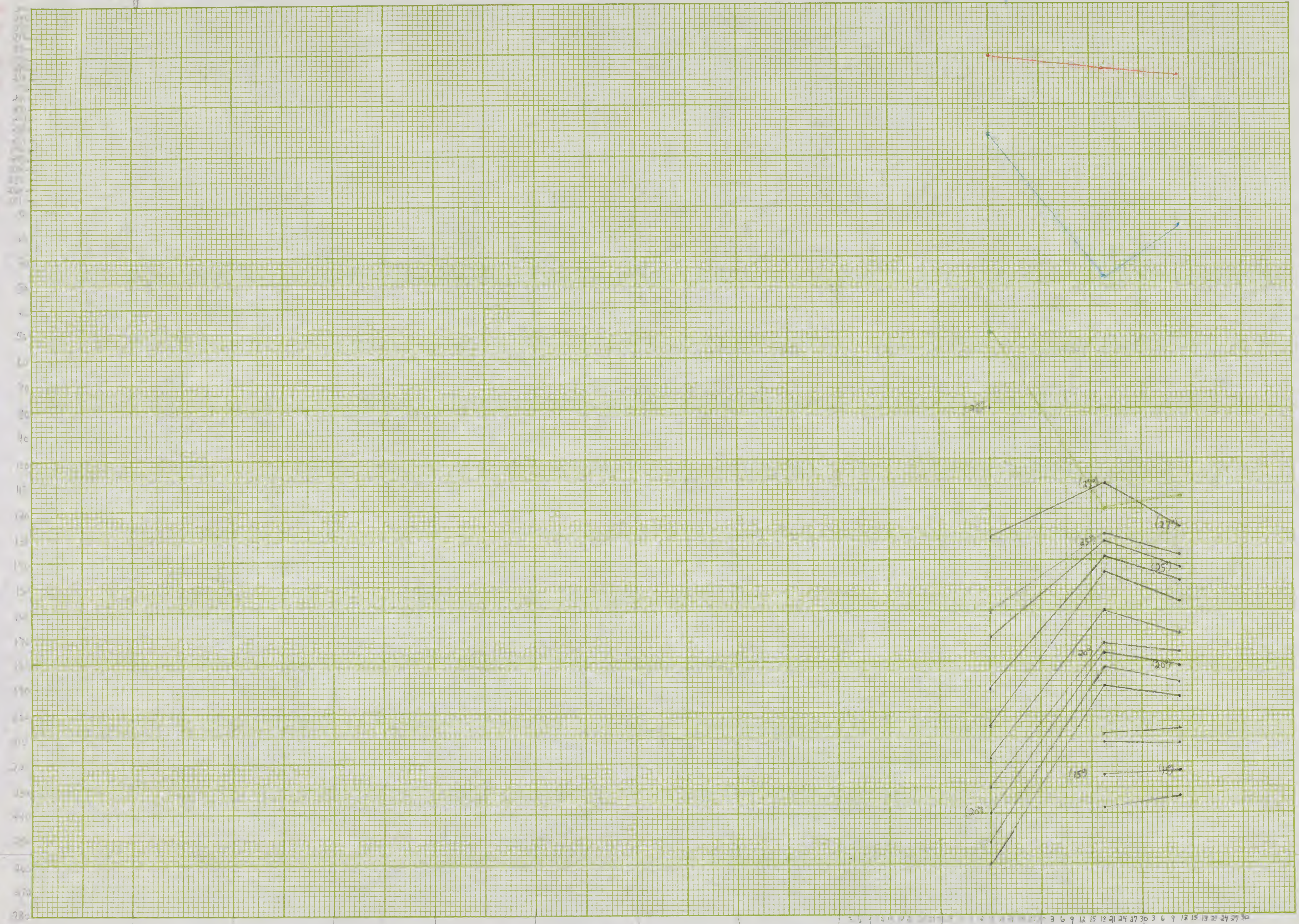


Station 14

178° - 179° W and 0 - 1° N

Temperature - Salinity  
Plankton - BT Temp.

Mar. J. 1966 - Thomsen



Jan Feb March April May June July Aug. Sept. Oct. Nov. Dec.

9911066

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
10 X 10 TO THE CENTIMETER 46 1512  
18 X 25 CM.



Square 15

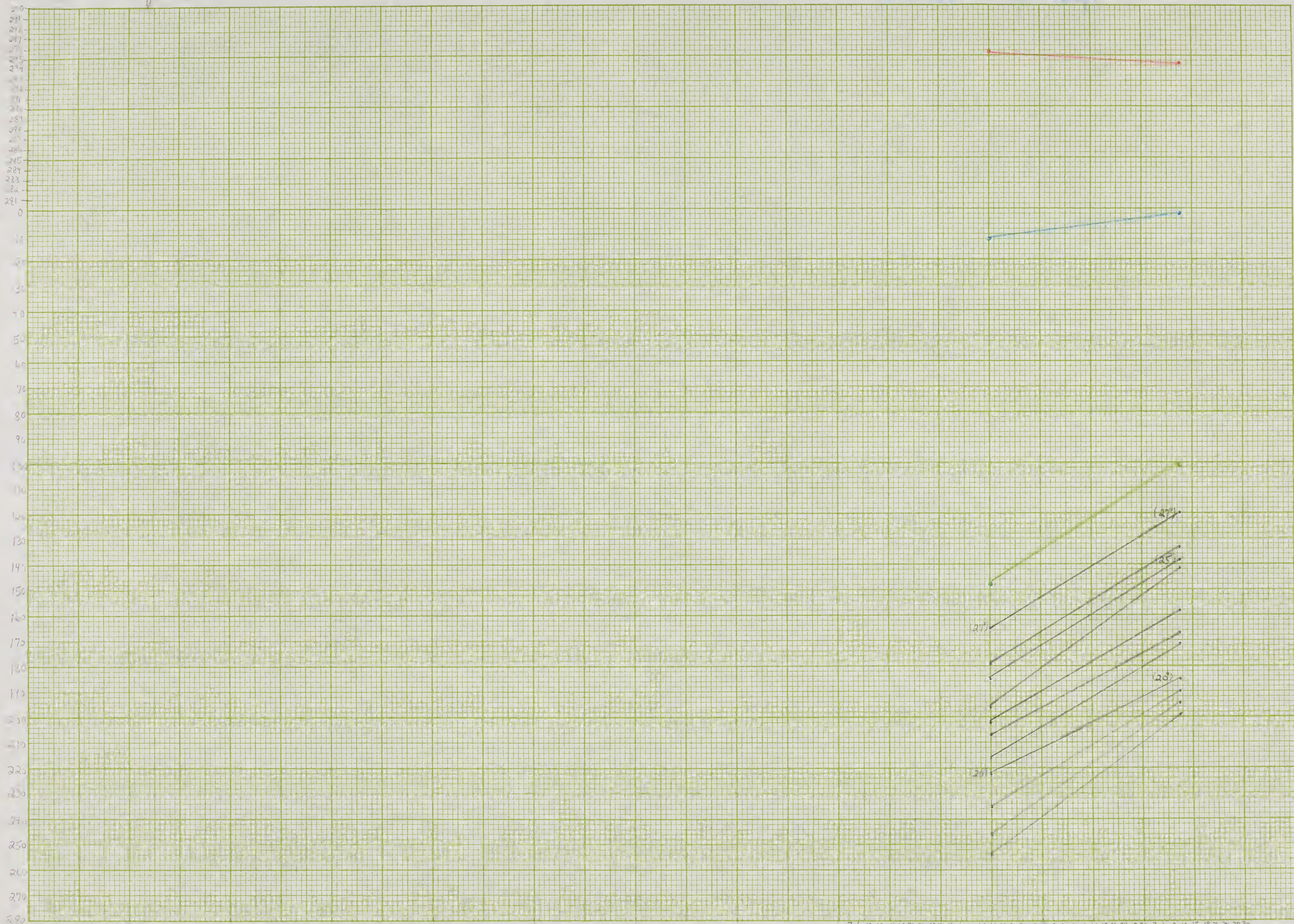
178 - 179° W

and 0 - 1° S

1.2.50 - Long. Station  
2.1.50 - 0° S

2.1.50 - 0° S

26.50  
26.2  
25.90  
25.24  
25.0  
24.17  
23.5  
23.2  
22.8  
22.1



3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30

Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
18 X 25 CM.  
10 X 10 TO THE CENTIMETER  
46 1512



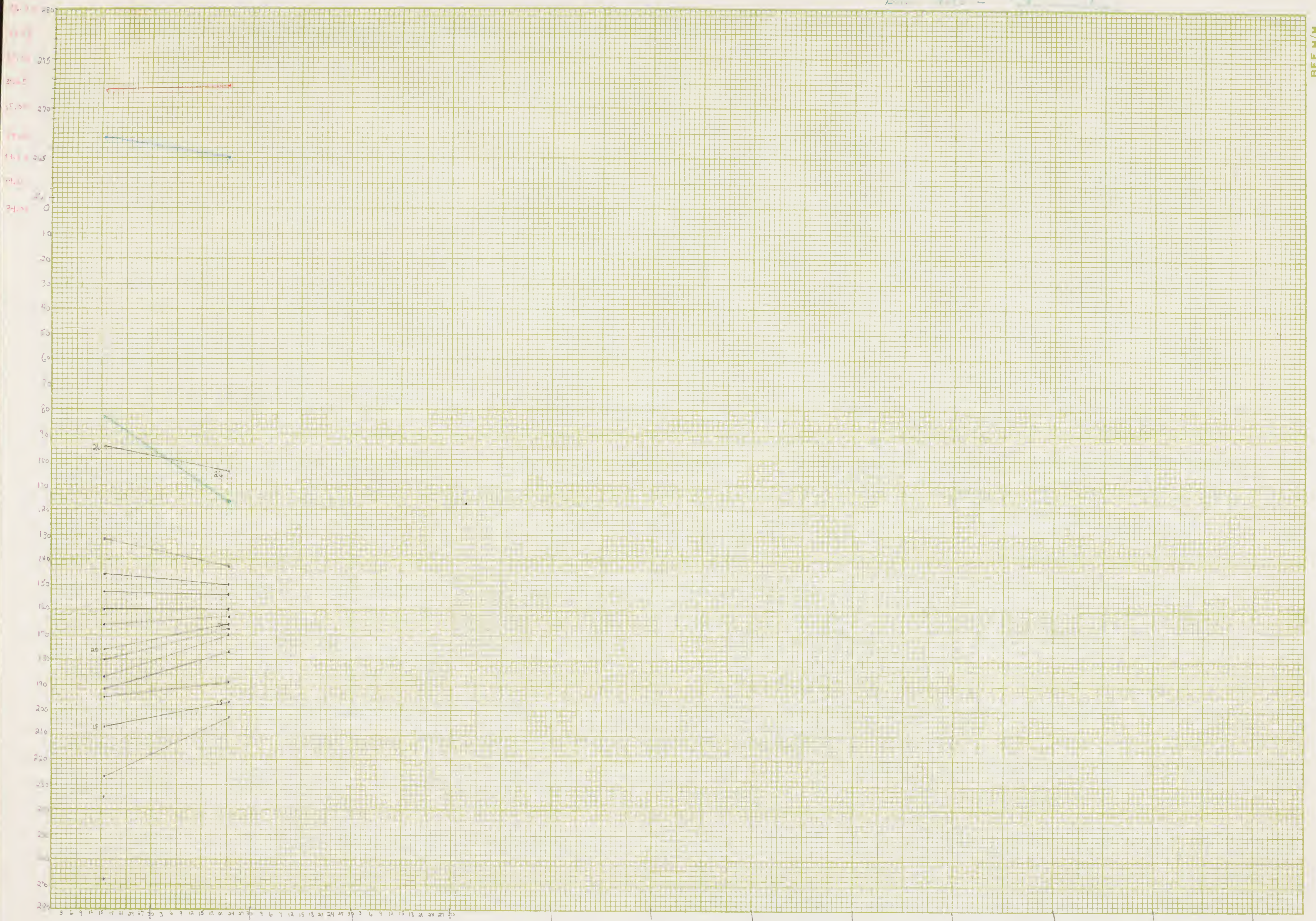
Square 1

175° - 176° W and 1° - 2° N

Red dots - depth 200m

Blue dots - ET Temp

Black dots - ...



BEE M/M

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

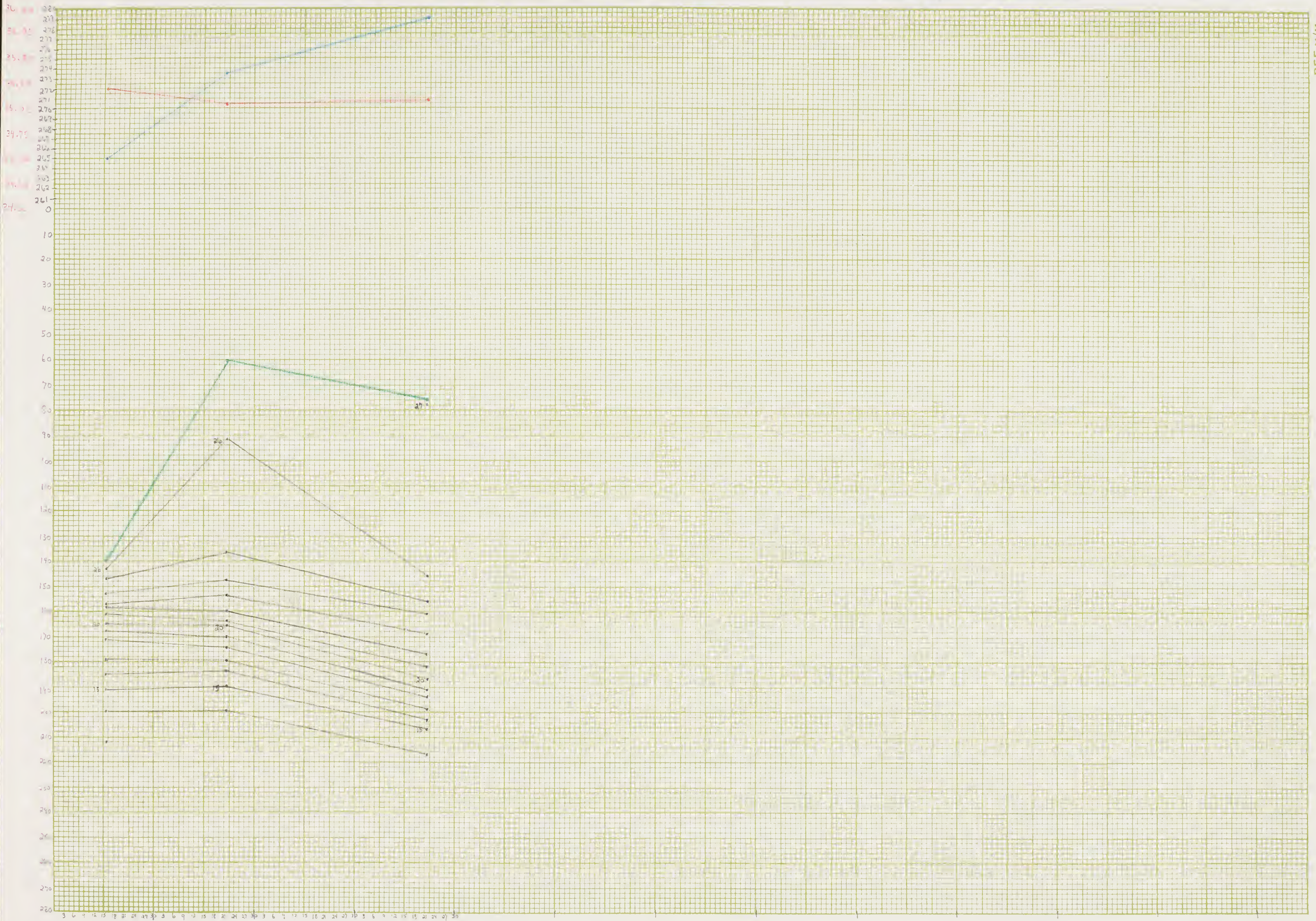
(year 1967)



Square 2

176° - 177° W and 1° - 2° N

11.5. - 1000  
E. 1.5 - 1000  
W. 1.5 - 1000



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

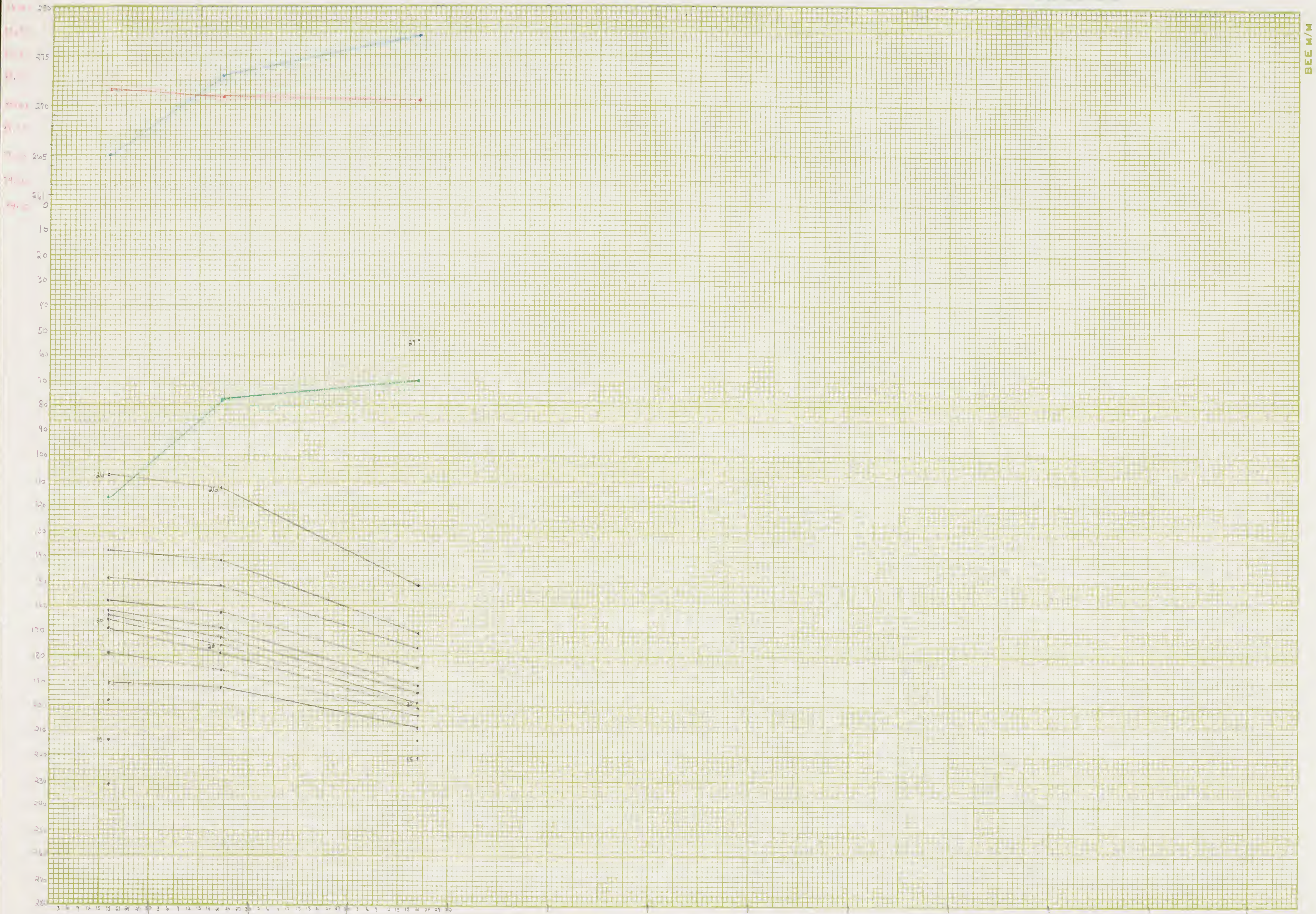
Year 1967



Square 3

177° - 178° W and 1° - 2° N

1.5 - 2.5  
2.5 - 3.5  
3.5 - 4.5



BEE M/M

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

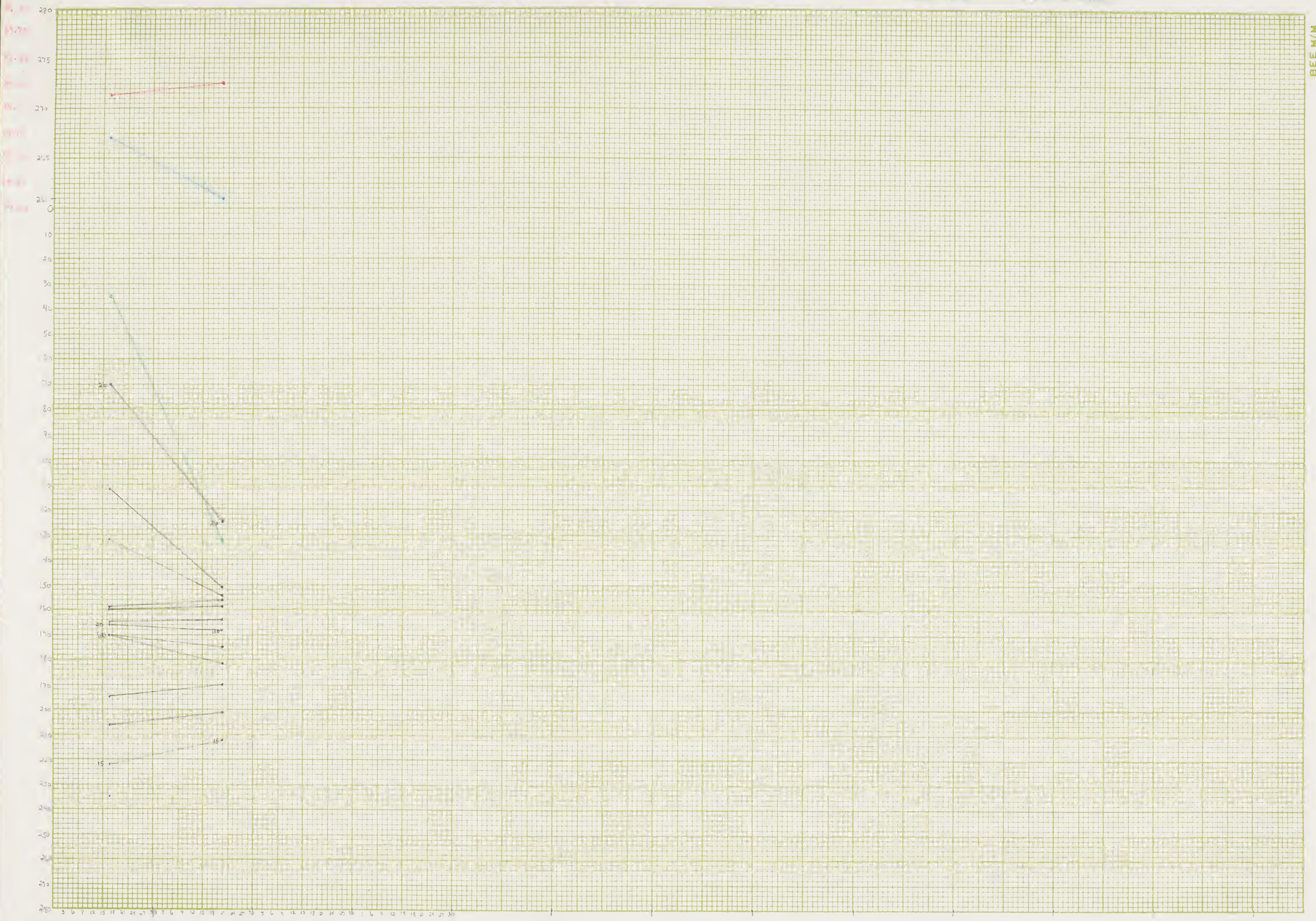
Year 1967



Square 4

175° - 176° W and 0 - 1° N

Red dots - Long Salinity  
Blue dots - BT Temp.  
Black dots - Density



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

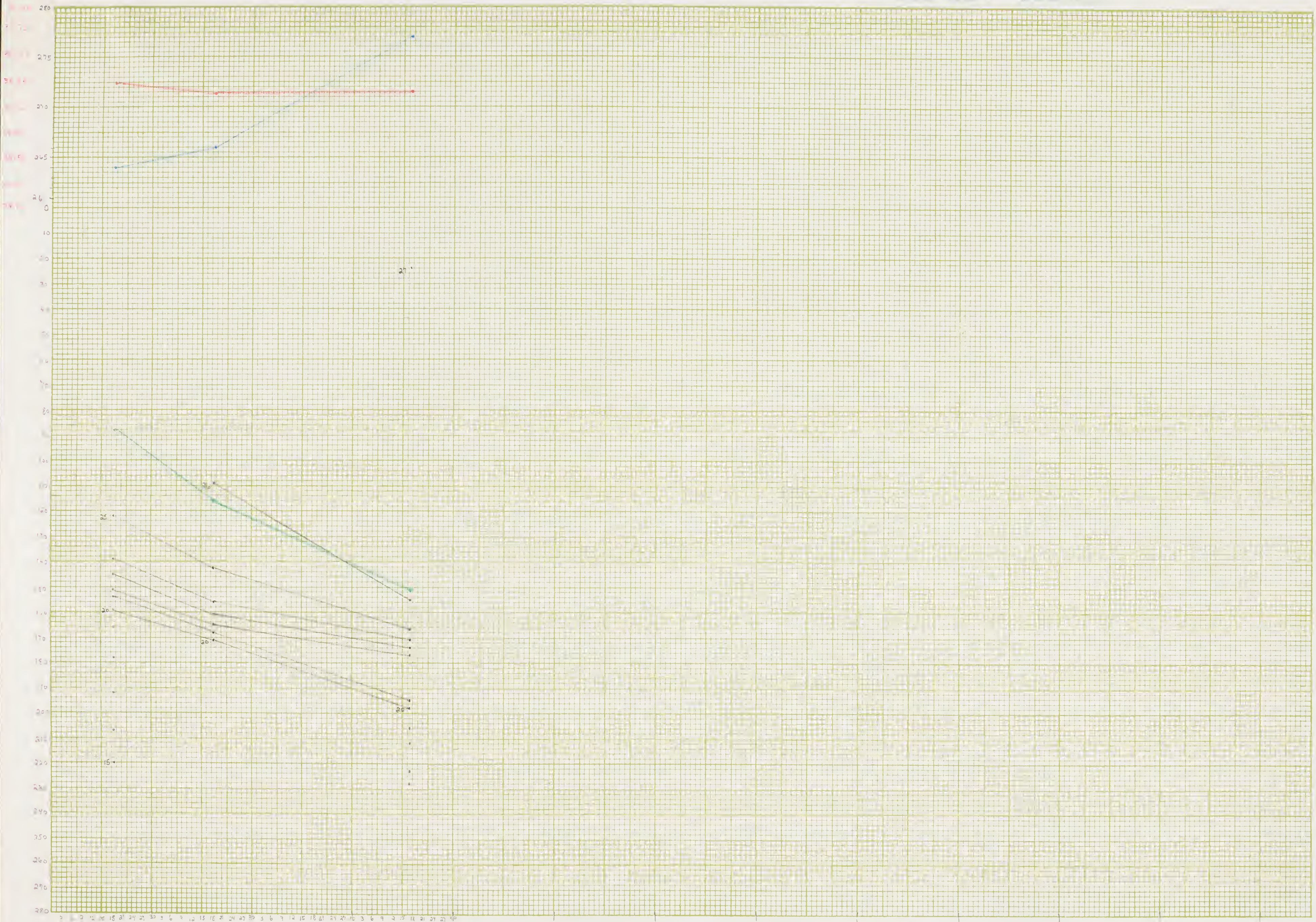
Jan 1967



Square 5

176° - 177° W and 0 - 1° N

Red dots - Surf density  
Blue dots - 1000 fms  
Green dots - 2000 fms



Jan Feb March April May June July Aug. Sept. Oct. Nov. Dec

Year 1967

BEE M/M



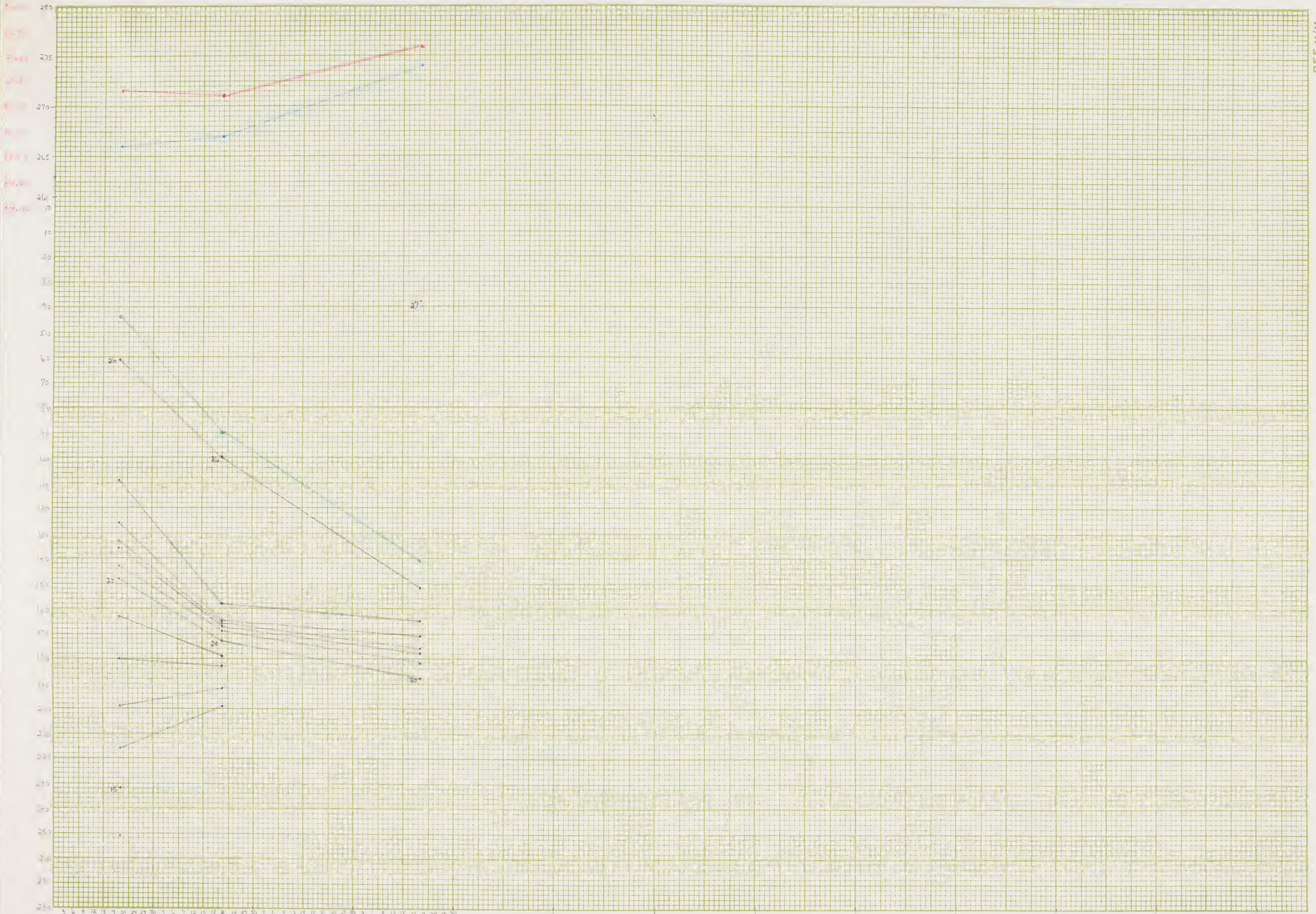
Square 6

177° - 178° W and 0 - 1° N

Red dots - surface density

Blue dots - 1000 m

Black dots - 2000 m



DENSITY

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

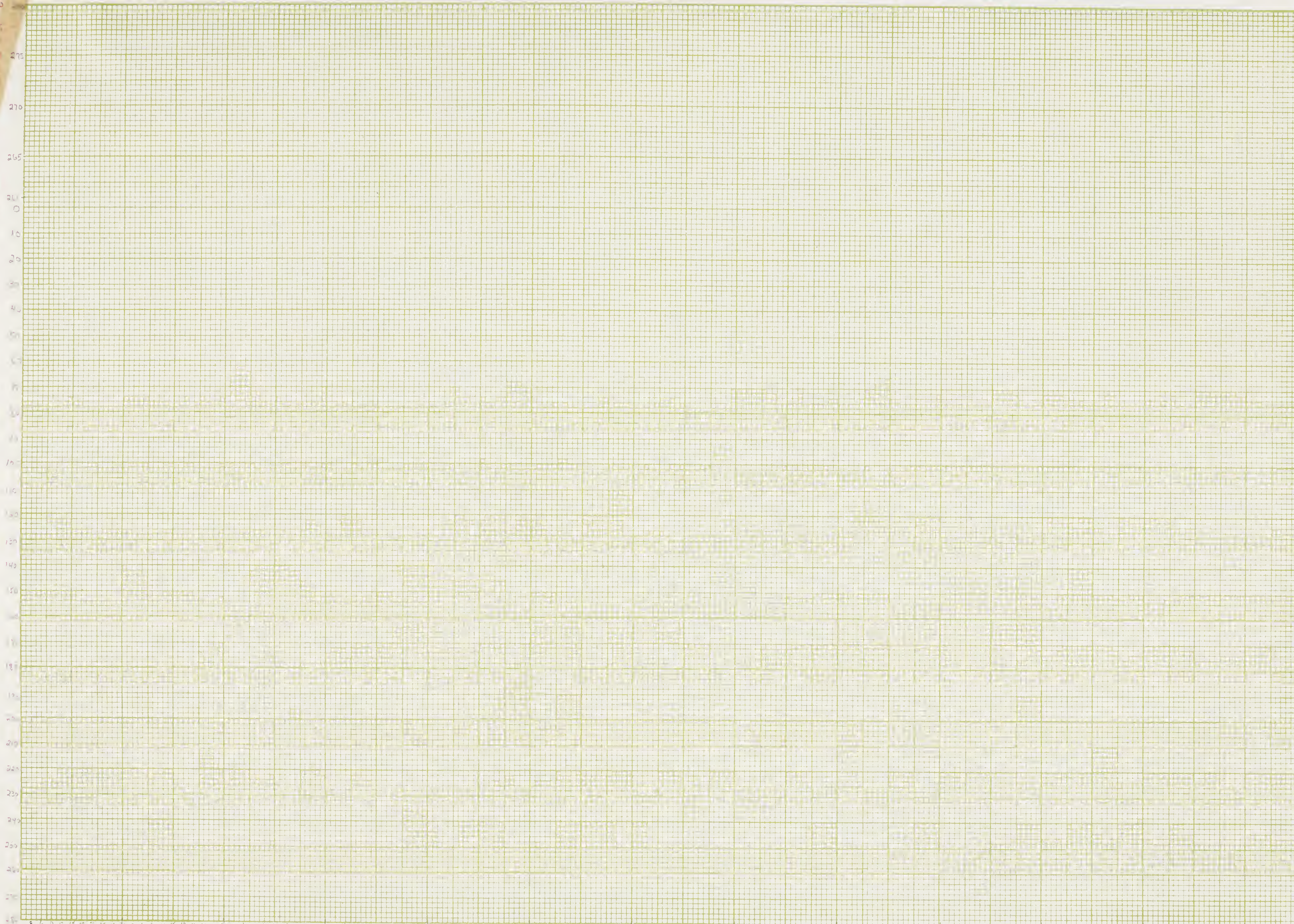
Year 1967



Square 7

175° - 176° W and 0 - 1° S

Red line - Temp. (C)  
Blue line - Salinity  
Green line - Density



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

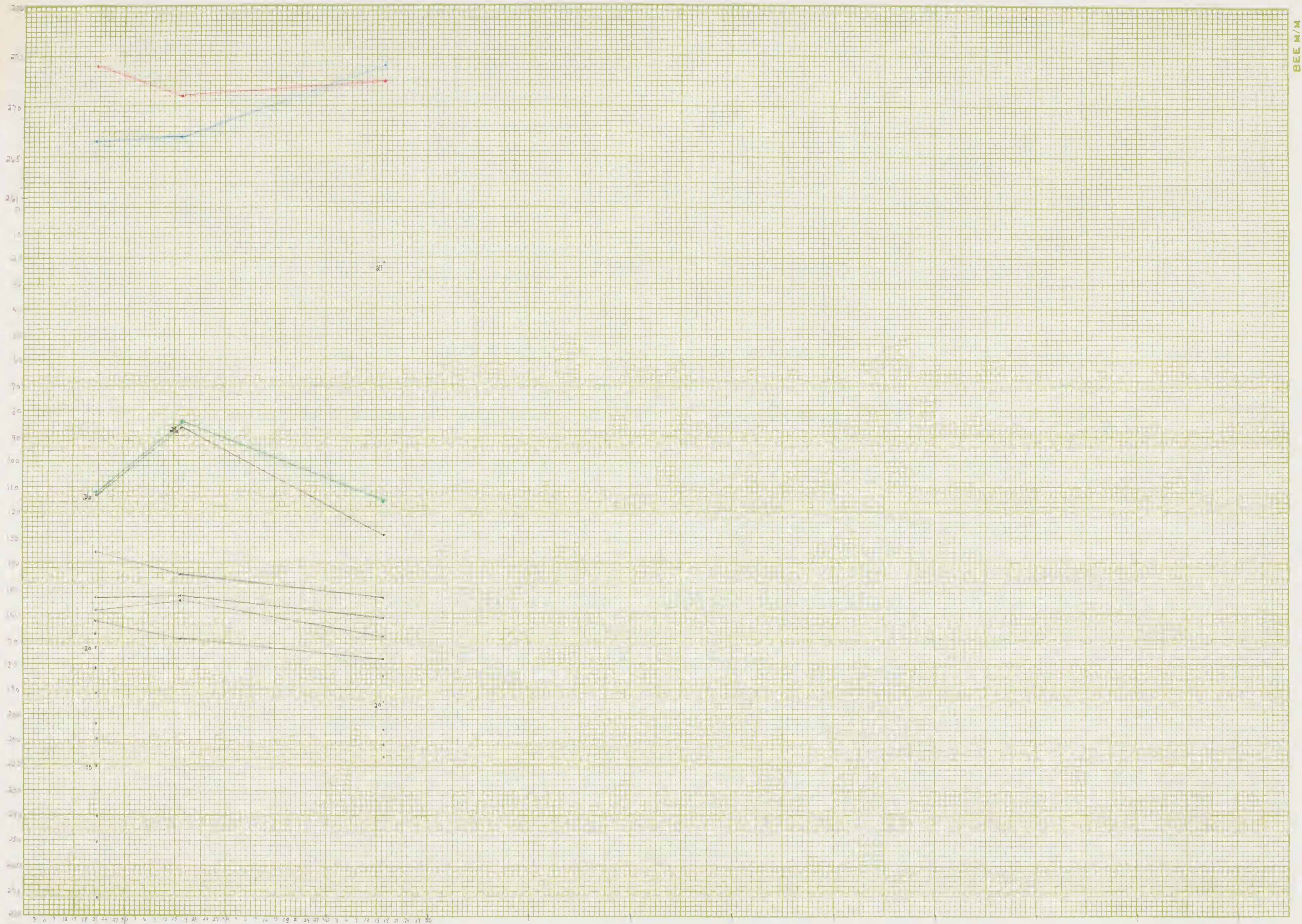
year 1967



Figure 8

176° - 177° W and 0 - 1° S

Red dots - *S. kurodani*  
Blue dots - *S. kurodani*  
Green dots - *S. kurodani*



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

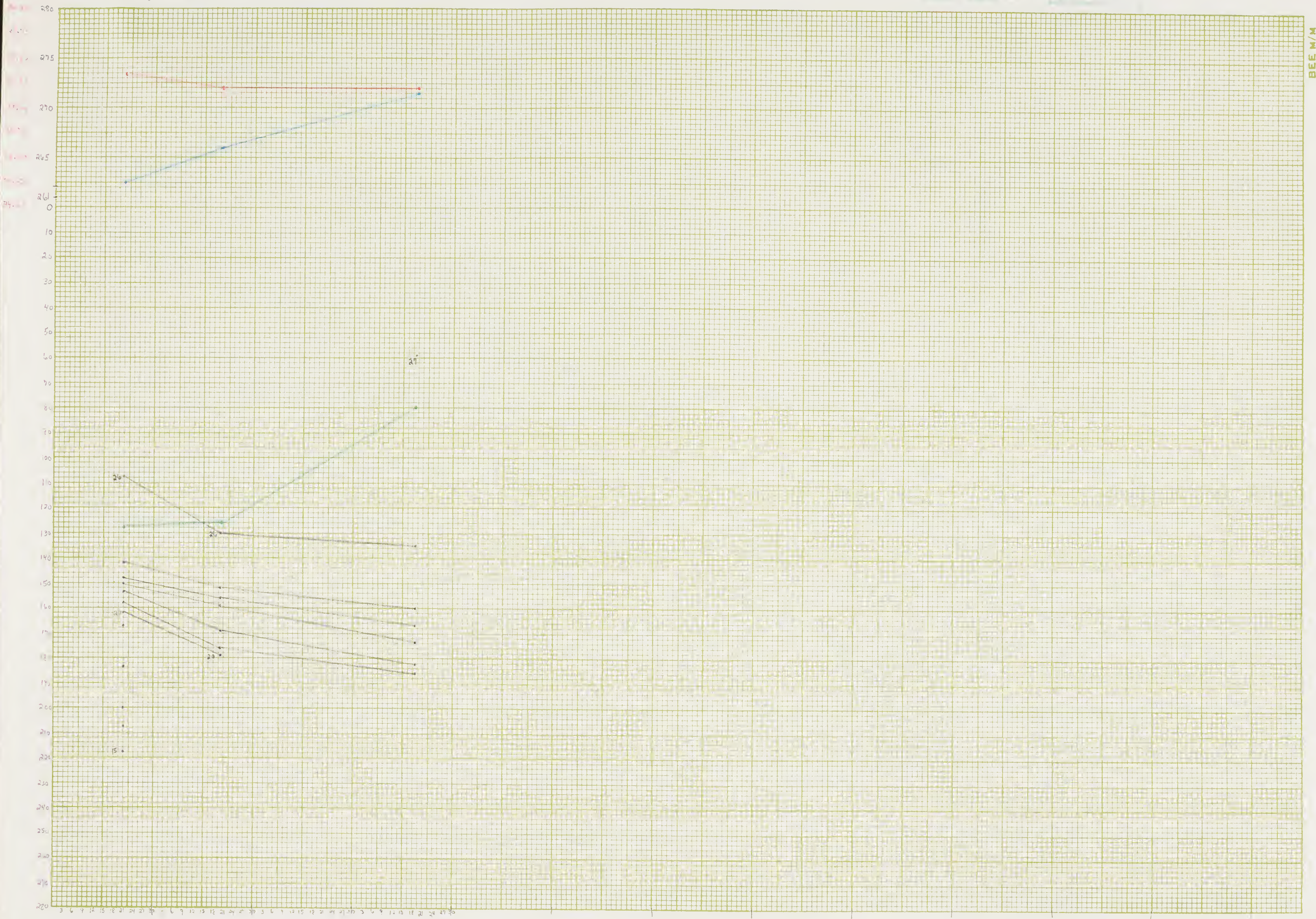
Year 1967



Square 9

177° - 178°W and 0 - 1°S

Red line - 2000 ft  
Blue line - 500 ft  
Green line - 1000 ft



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.  
Year 1967

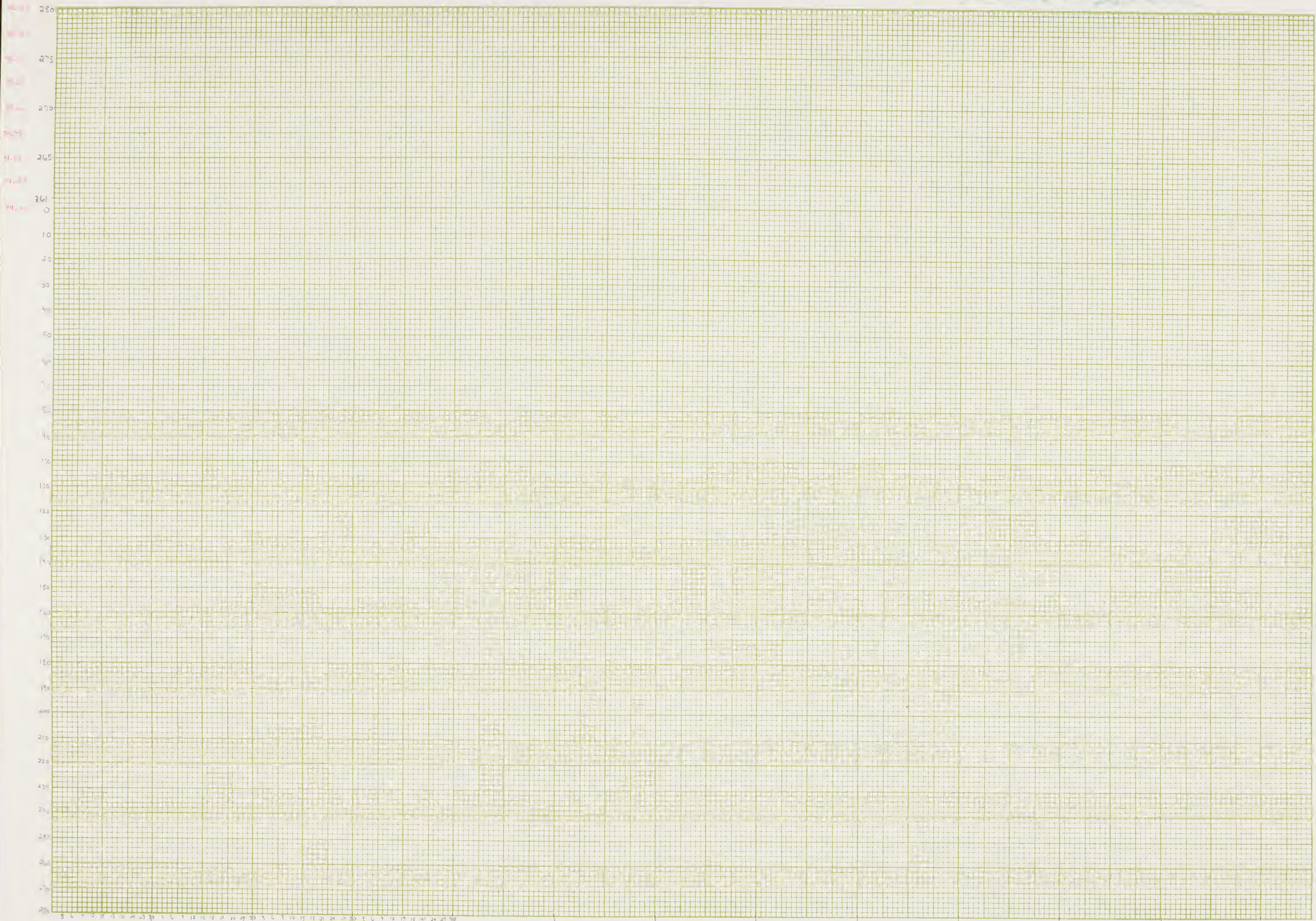
BEE M/M



Square 10

175° - 176° W and 1° - 2° S

Red line - depth  
Blue line - P  
Green line - T



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

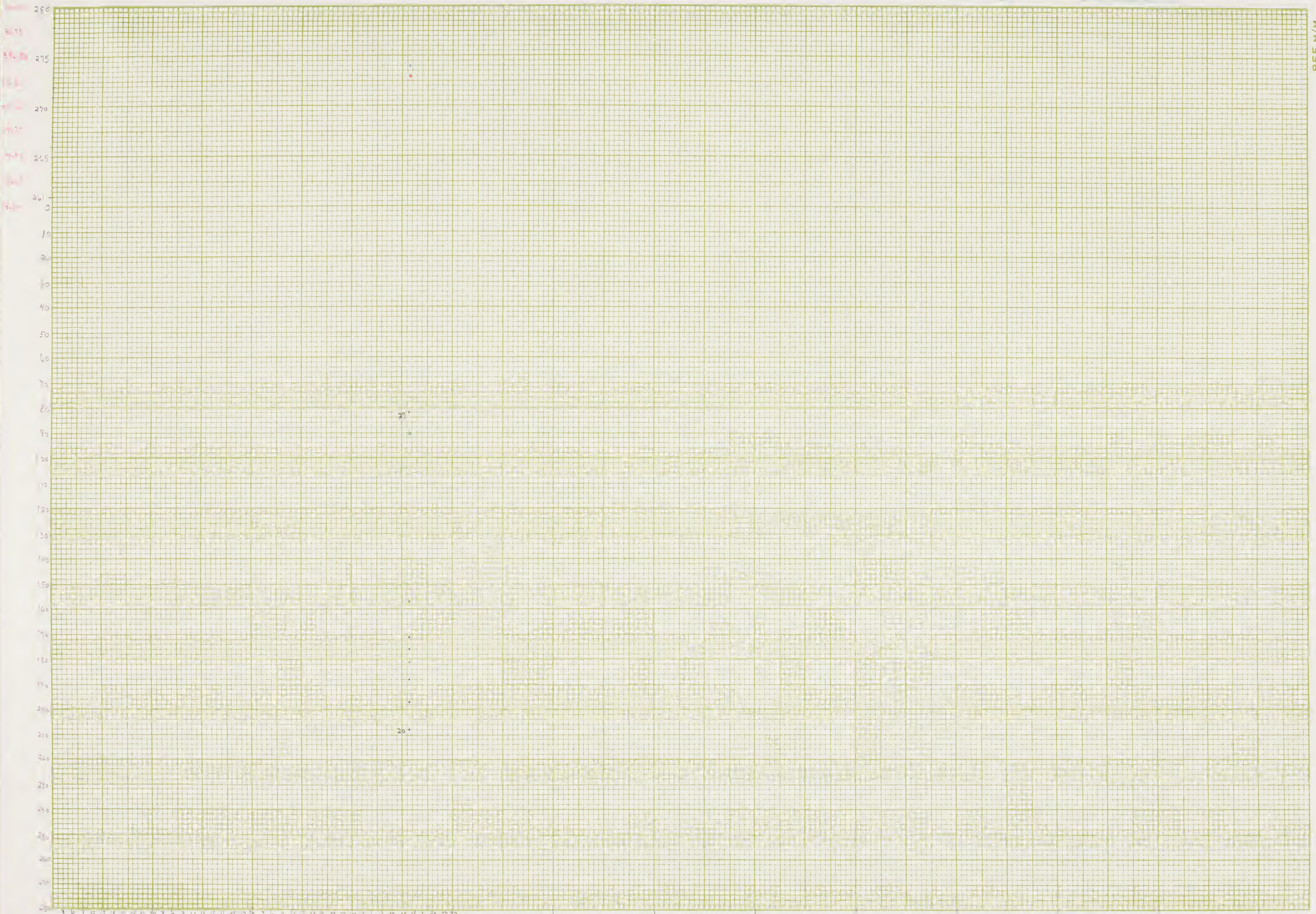
Year 1967



Square 11

176° - 177° W and 1° - 2° S

Red dots - S. p. 21  
Blue dots - S. p. 22  
Green dots - S. p. 23



BEE M/M

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

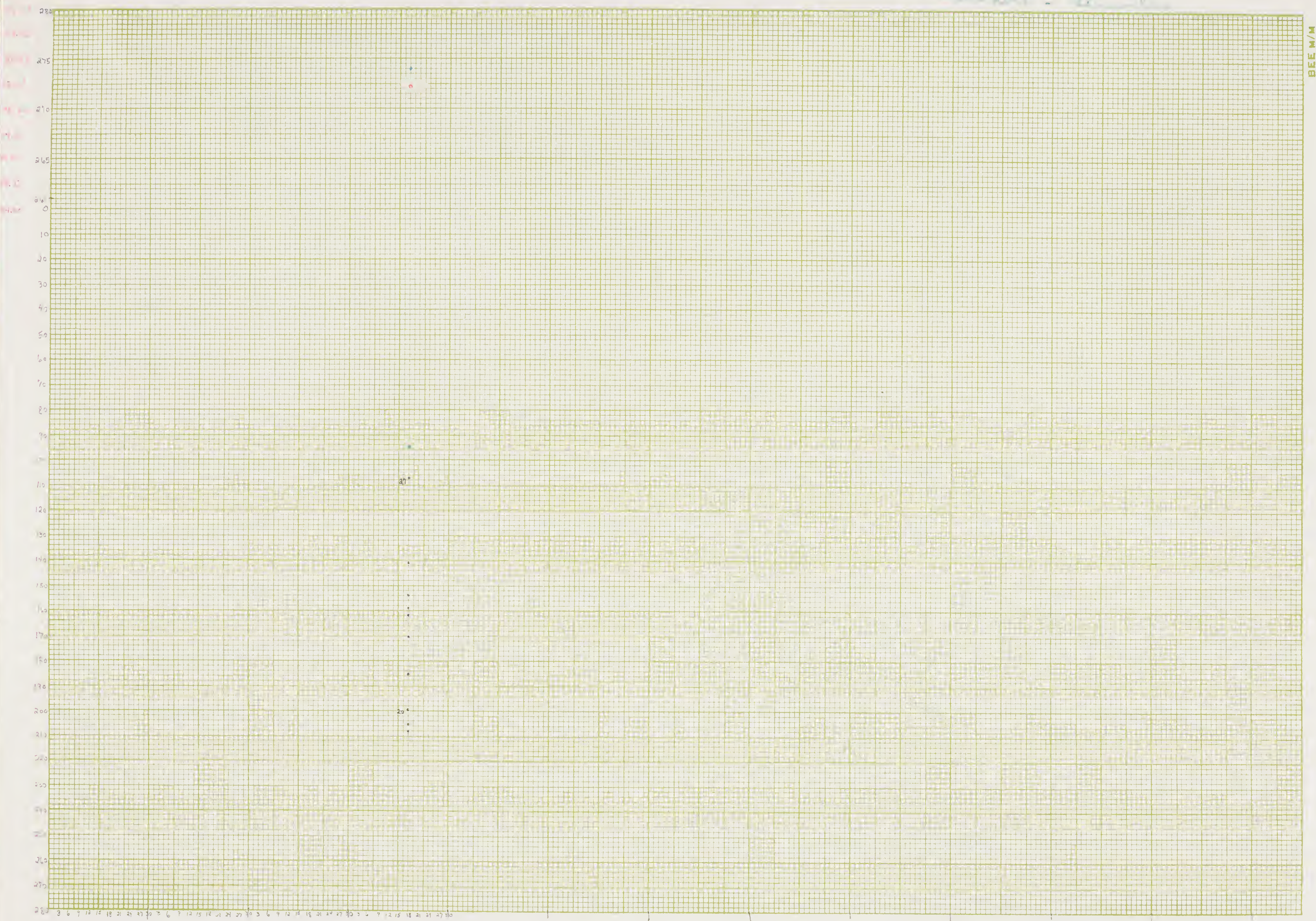
year 1967



Square 12

177° - 178° W and 1° - 2° S

All data - def. density  
Sea data - 100 fms  
Beam data - 100 fms



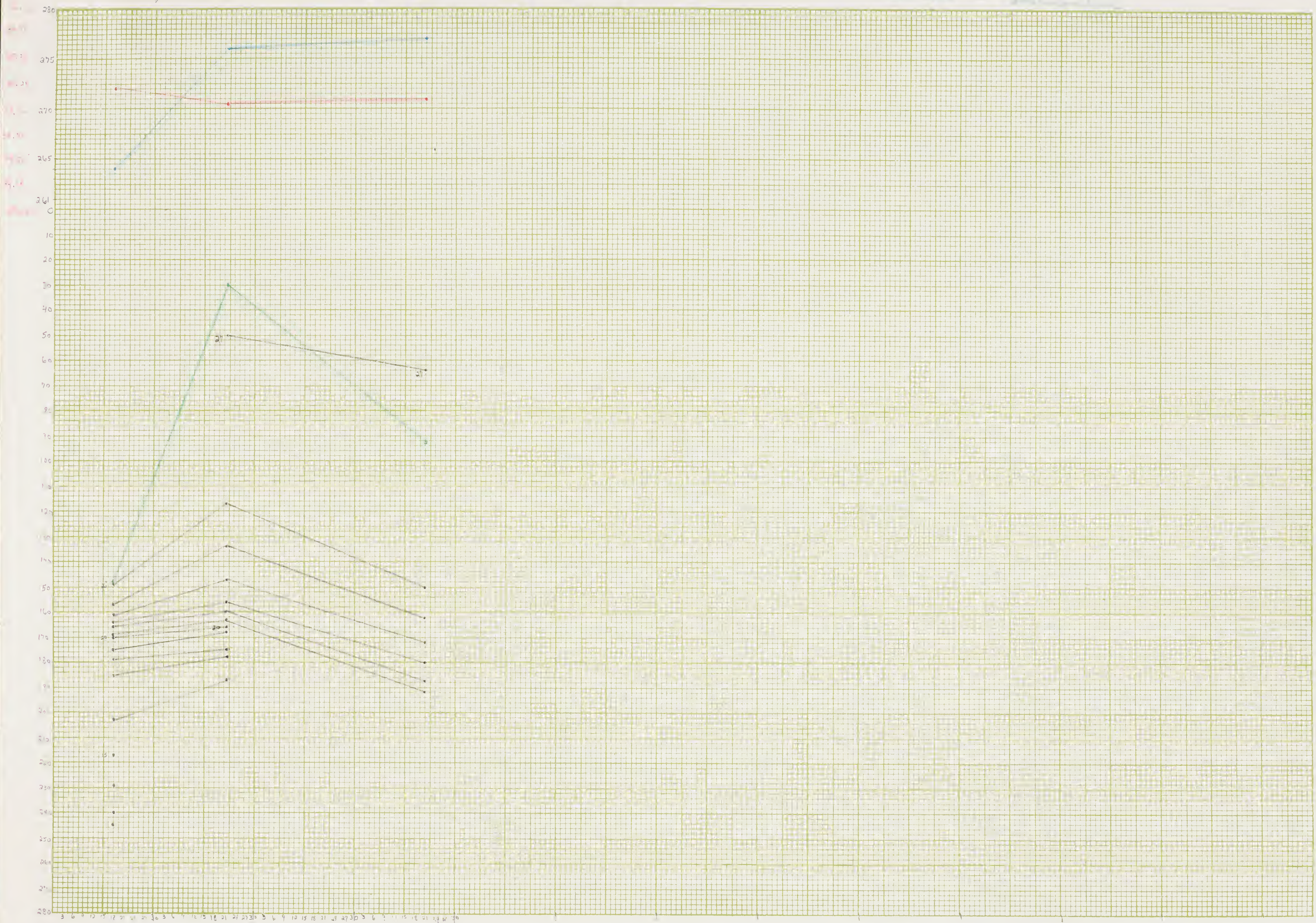
Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.  
Year 1967



Square 13

178° - 179° W and 1° - 2° N

Red dots - Day Salinity  
Blue dots - Night Salinity  
Green dots - Salinity



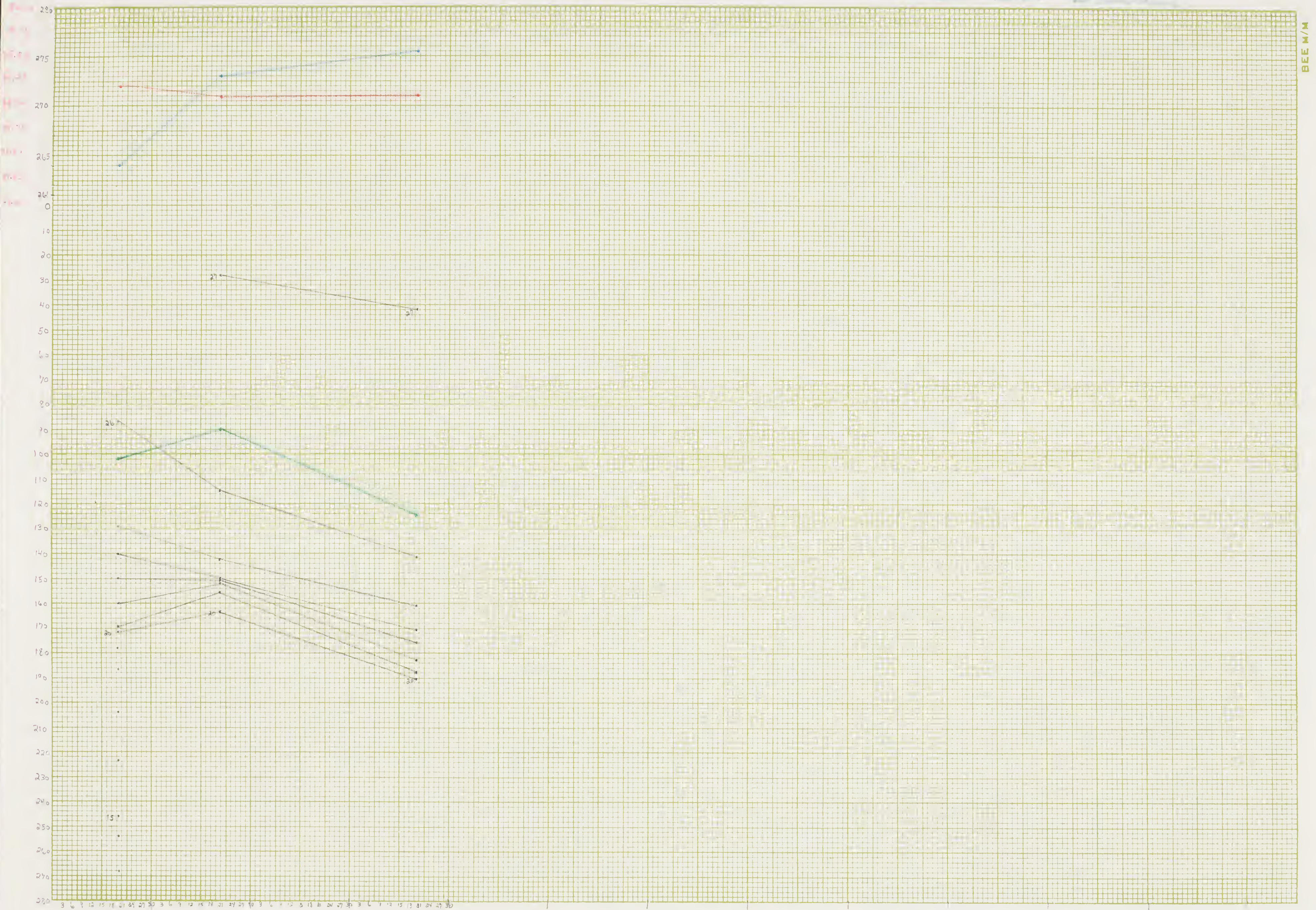
Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.  
Year 1967



Square 14

178° - 179° W and 0 - 1° N

Red dots - Surf. density  
Blue dots - ST  
Green dots - T

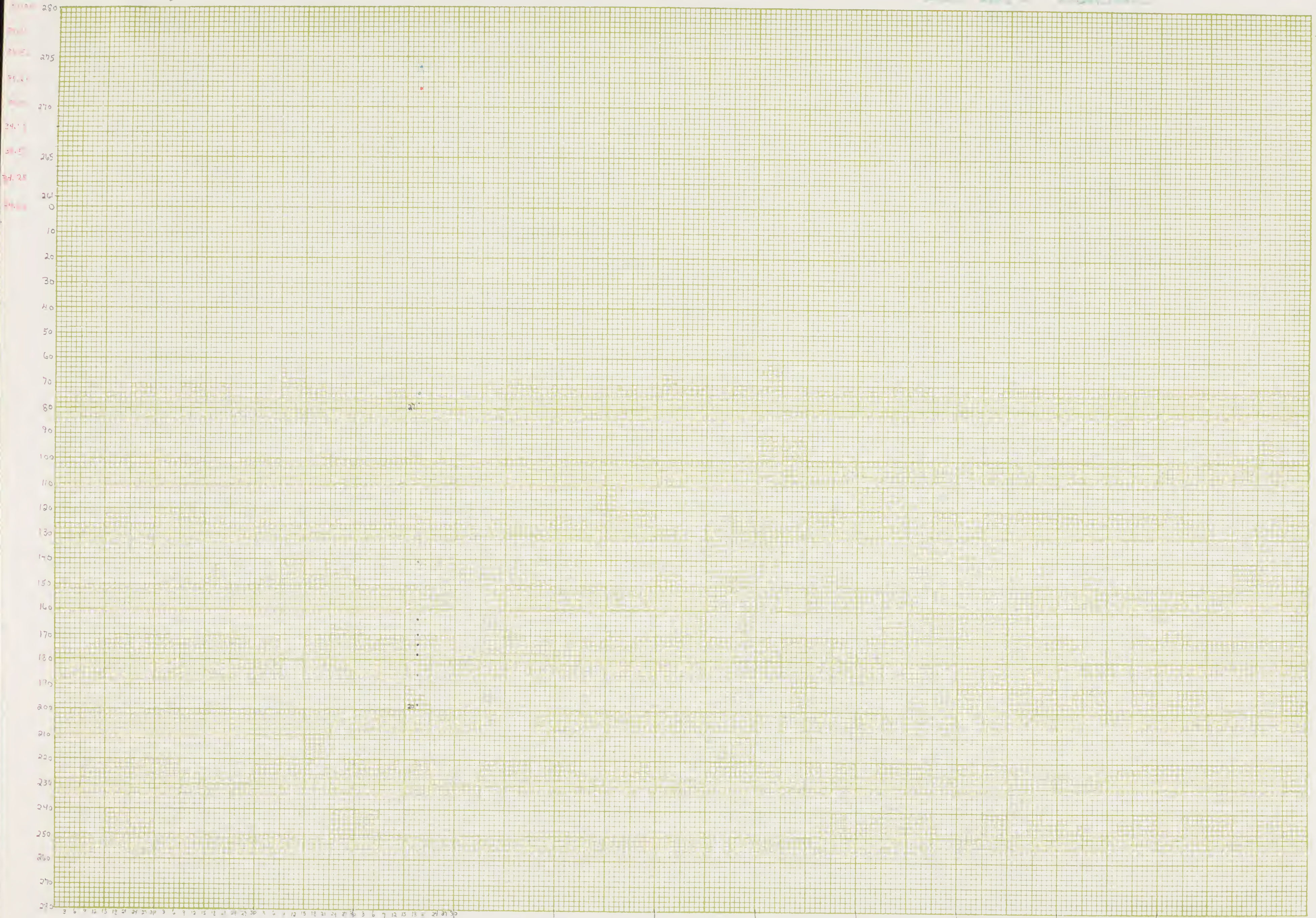




Square 15

178° - 179° W and 0-1° S

Red dots - Temp. density  
Blue dots - ST temp.  
Green dots - Salinity



Jan.

Feb.

March

April

May

June

July

Aug.

Spt.

Oct.

Nov.

Dec.

Jan 1967

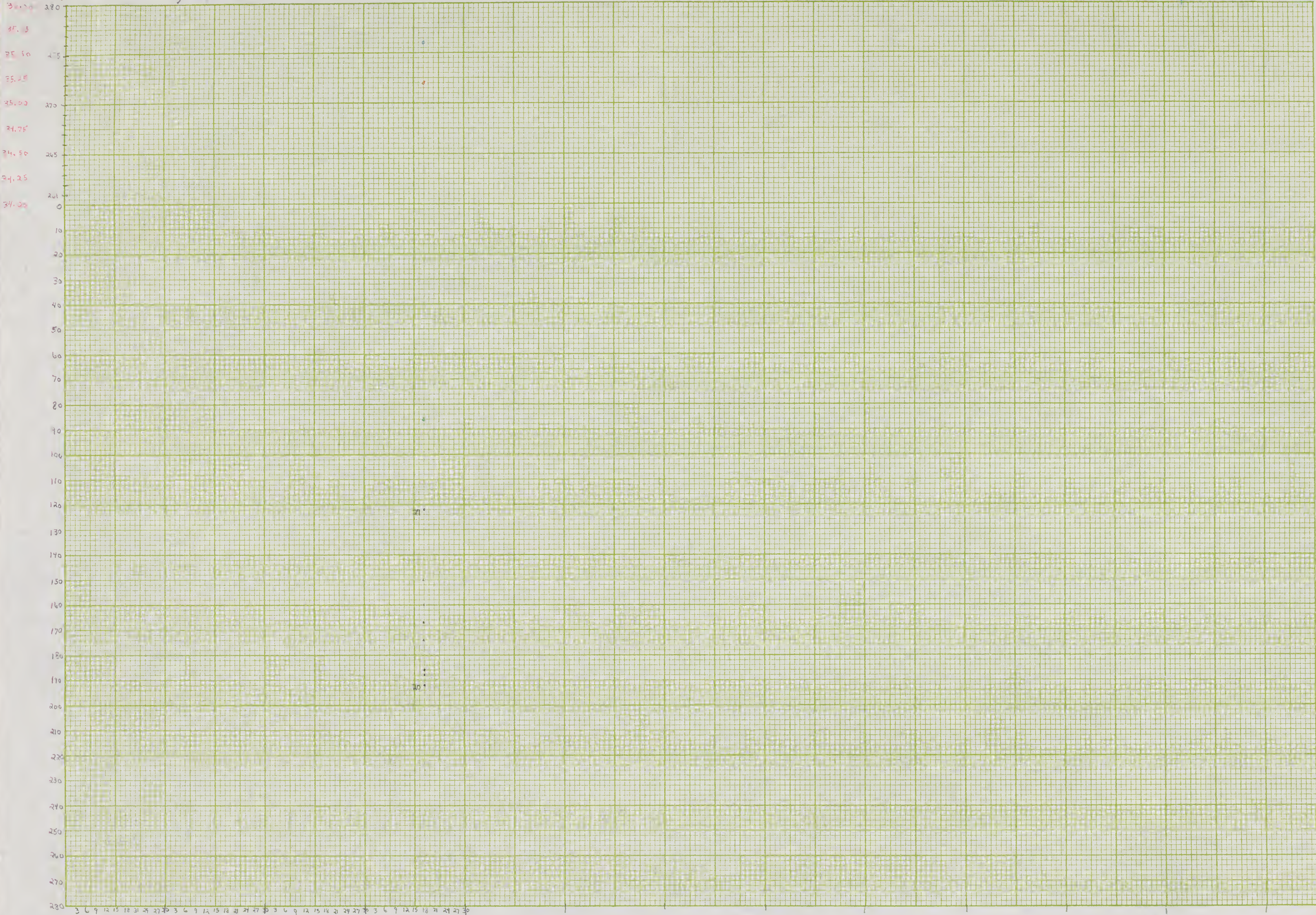


Square 16

178° - 179° W and 1° - 2° S

Red dot - Surf. Salinity  
Blue dot - BT Temp.

Time 1.30  
D. 1.30



Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

Jan 1967

KEUFFEL & ESSER CO.  
MADE IN U.S.A.  
K+E 10 X 10 TO THE CENTIMETER 46 1512 18 X 25 CM.



STC	Track Plots			Track Map	Tabulated Data
	Large Pink	Small Green	Machine White		
12 Jan-March 66	✓	✓	✓		
13 March-May 66	✓	✓			
14 July 66	✓	✓			
15 Sept-Oct 66	✓	✓			
16 Nov-Dec 66	✓	✓			
17 Jan-Mar 67	✓			✓	
18 Mar-Apr 67	✓			✓	✓

Squares at equator -  
 Time plots Jan-Dec  
 1966 ✓  
 1967 ✓



Please note the latitude scales. There is no consistency as to which direction latitude increases.



Shearwater

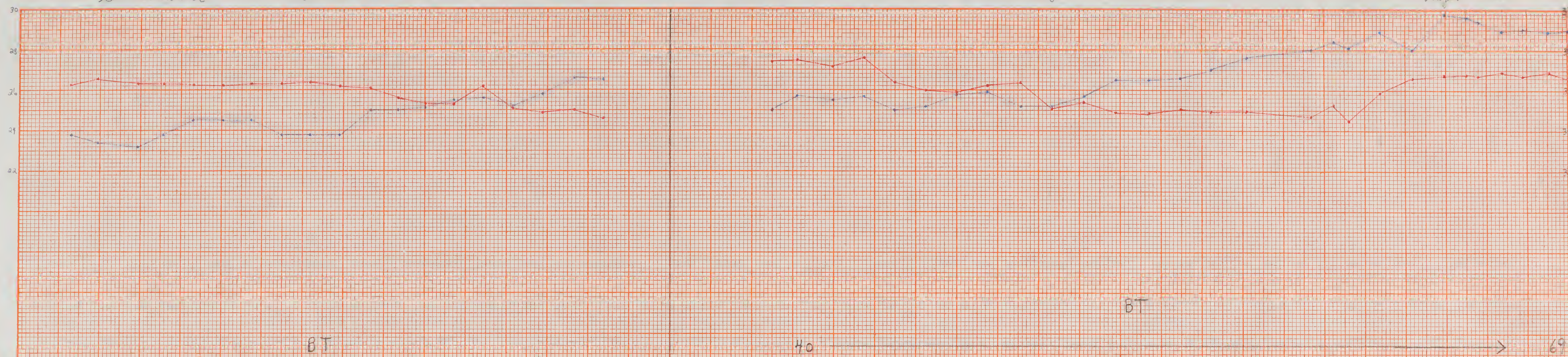
(Cruise 12)

Jan. - March 1966

Log includes BT 1-17 and 40-67

Depth of mixed layer

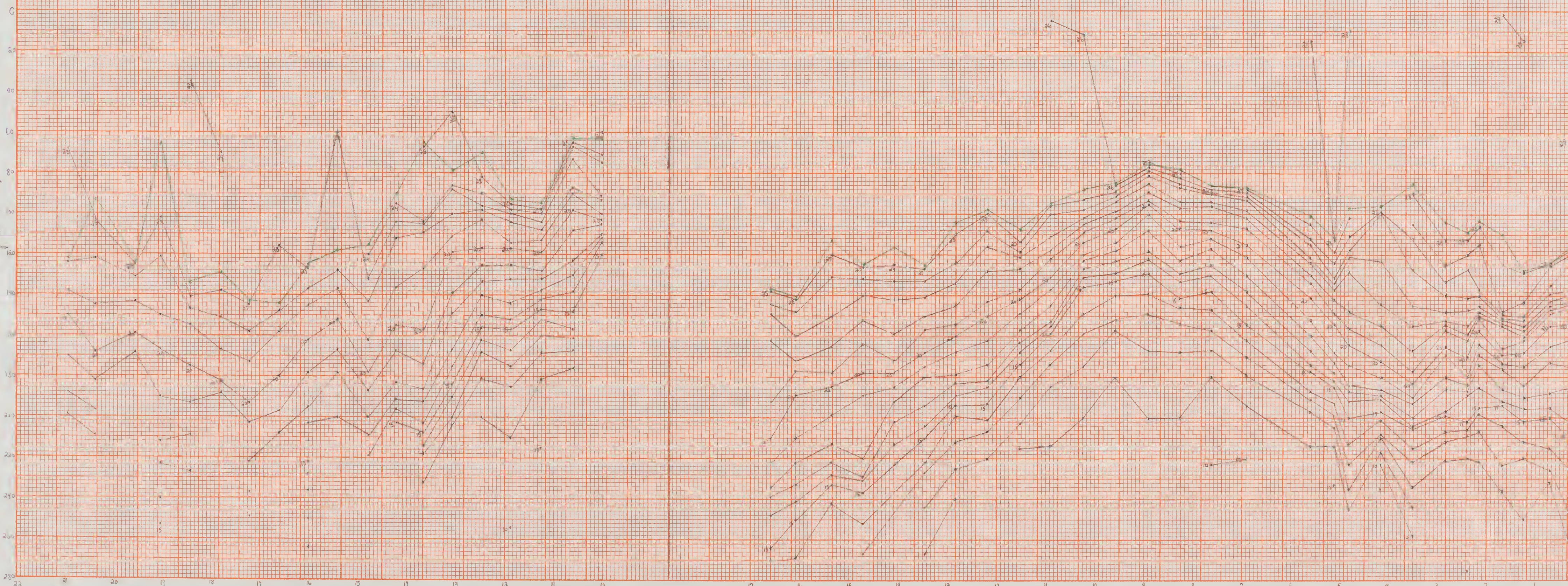
Surface Temp. (C)



Surface Salinity

10 X 10 TO THE CENTIMETER 47 1513  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

Depth (M.)



North Latitude

North Latitude



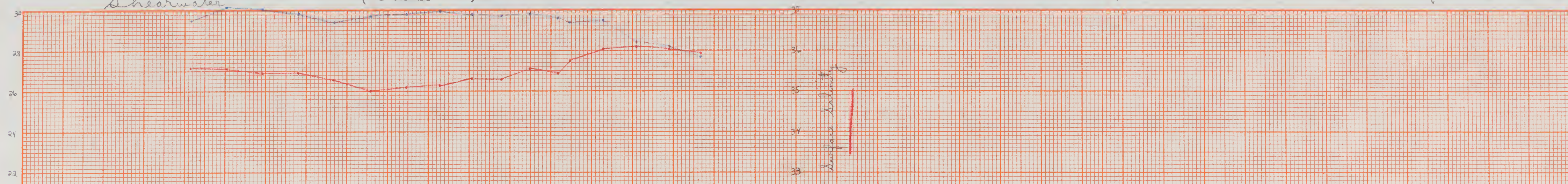
Shearwater (Cruise 12)

Jan. - March 1966

Leg 2 includes BT 116 - 132

Depth of mixed layer —

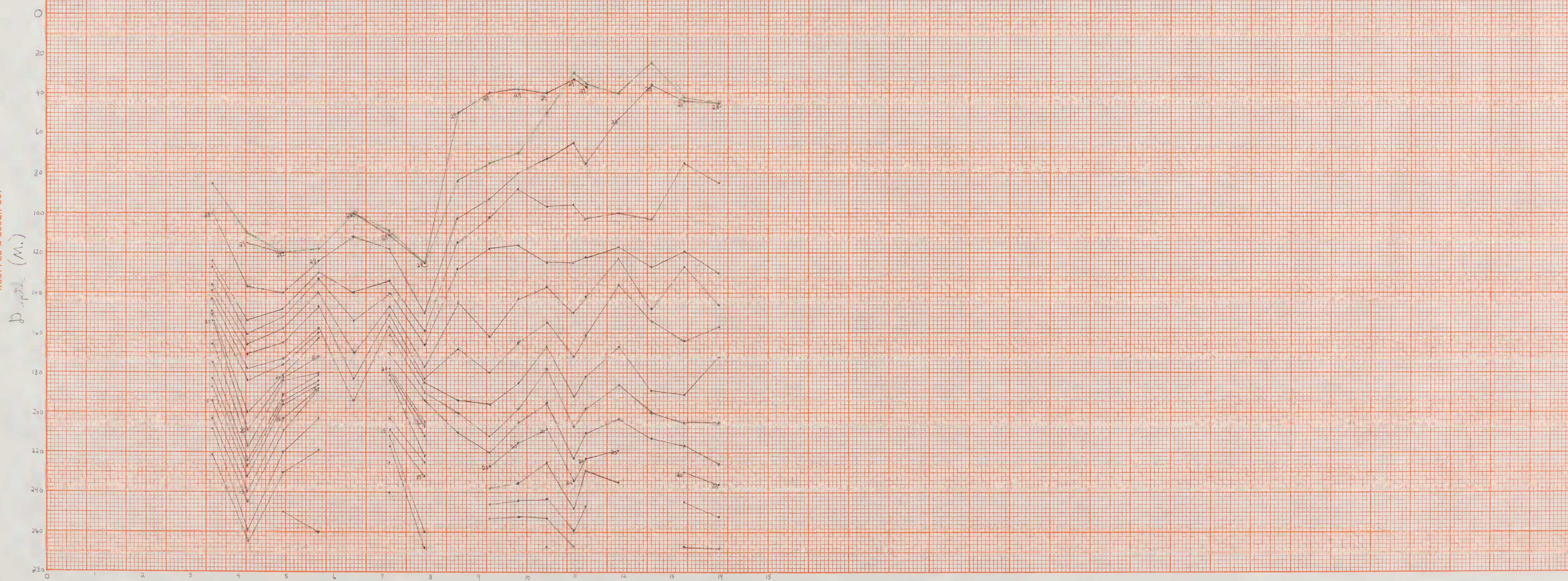
Surface Temp. (C)



BT

116

132



South Latitude

KE 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U. S. A. KEUFFEL & ESSER CO.

Depth (M.)



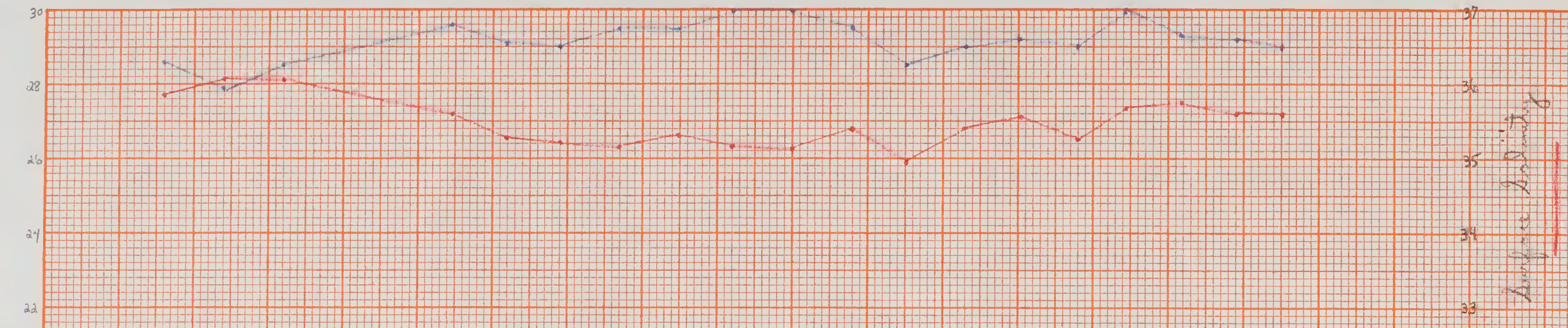
Shearwater (Cruise 12)

Jan. - March 1966

Log 3 includes BT 133 - 152

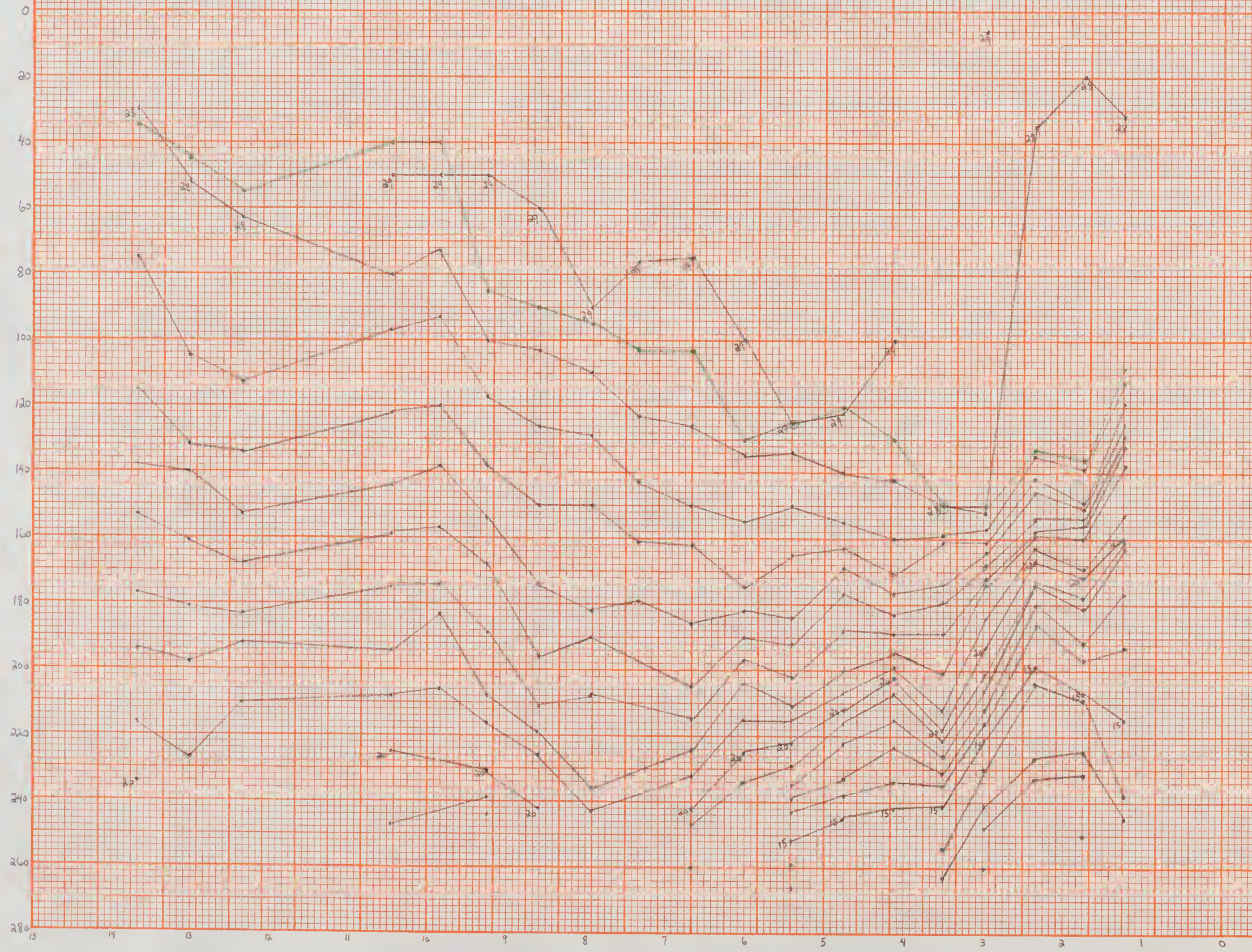
Depth of mixed layer —

Surface Temp. (C)



BT

133 → 152



South Latitude

KE 10 X 10 TO THE CENTIMETER 47 1513  
MADE IN U. S. A.  
KEUFFEL & ESSER CO.

Depth (M)



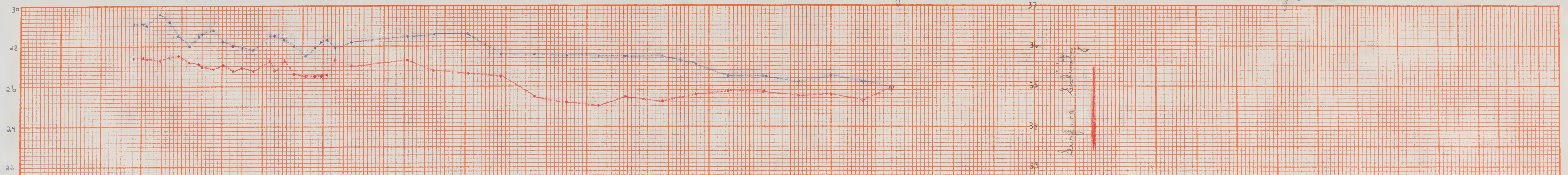
Shearwater (Cruise 12)

Jan. - March 1966

Leg 4 includes BT 196 - 236

Depth of mixed layer

Surface Temp. (C)

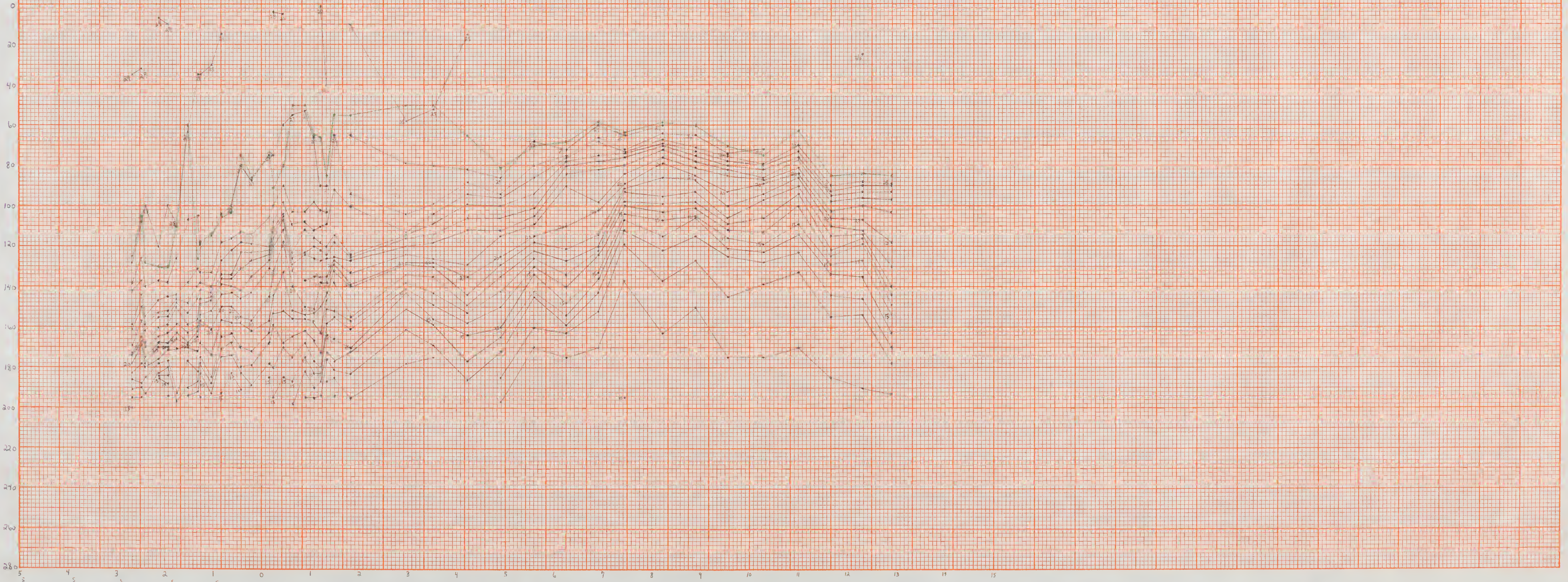


BT

196 → 236

10 X 10 TO THE CENTIMETER 47 1513 KEUFFEL & ESSER CO. MADE IN U.S.A.

Depth (M.)



South Latitude

North Latitude



Shoewater

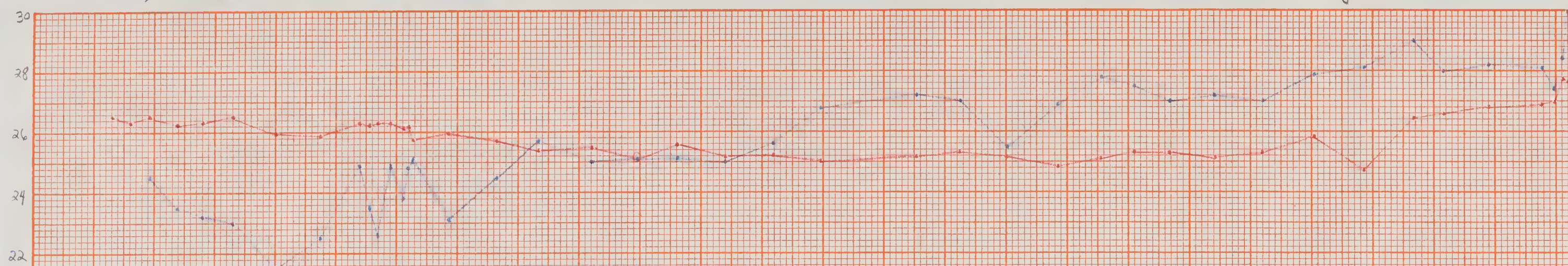
(Cruise 13)

March - May 1966

Leg 1 includes BT 1-42

Depth of mixed layer —

Surface Temp. (C)

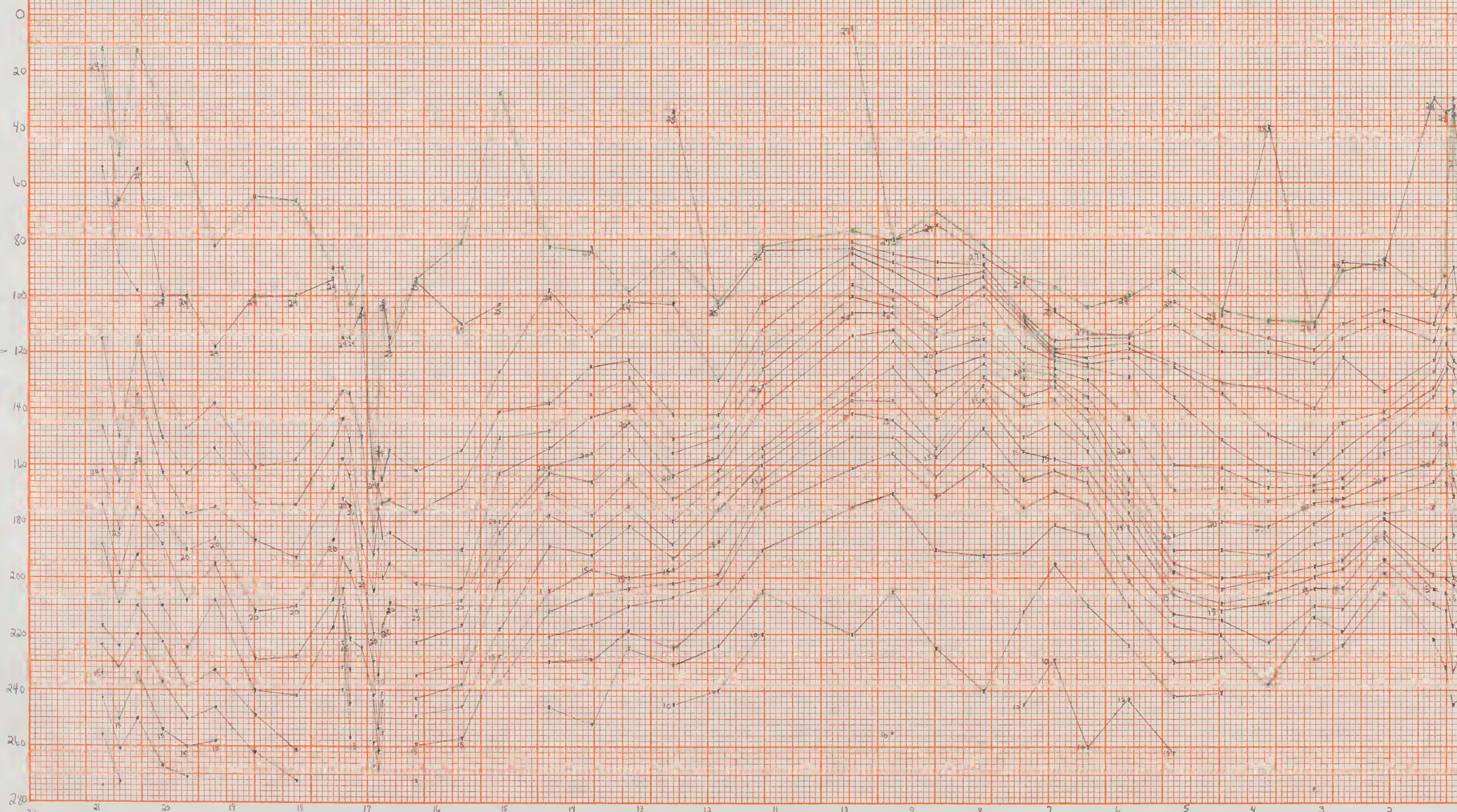


Surface Salinity

BT 1 → 42

KE 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U.S.A. KEUFFEL & ESSER CO.

Depth (M.)



North Latitude



Stations

(Cruise 13)

March - May 1966

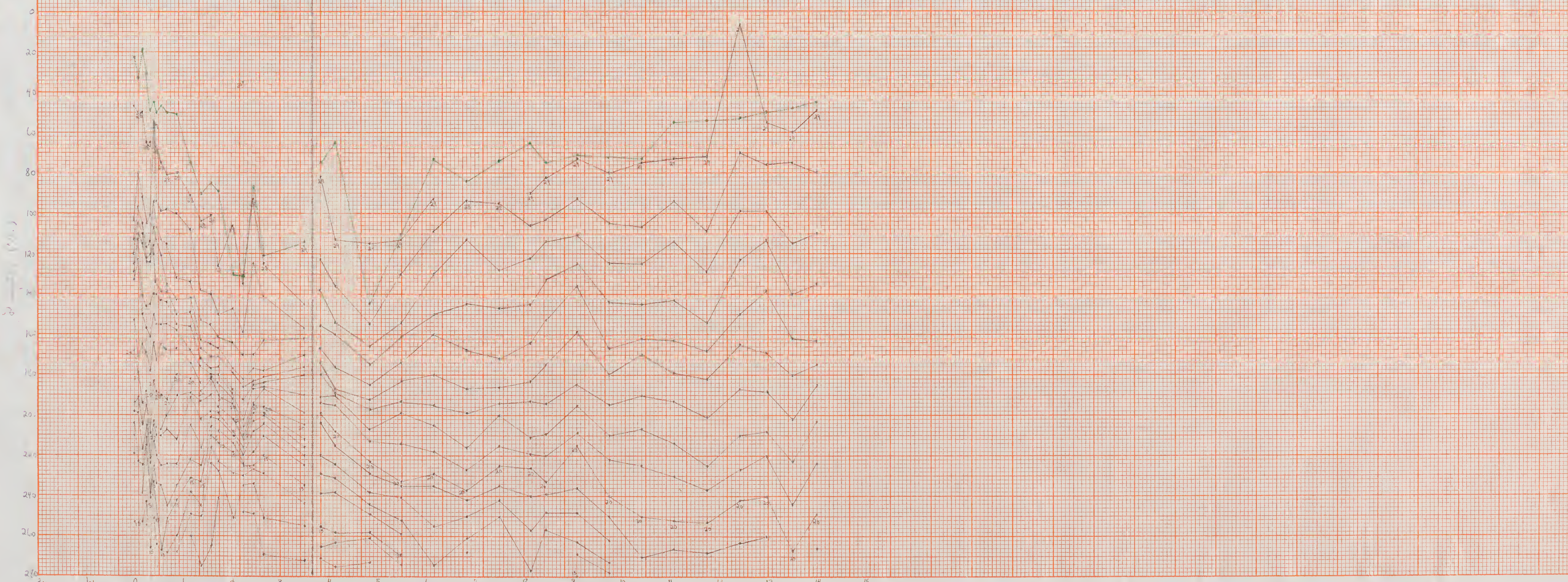
Log 2 includes BT 60-80 and 86-103

Depth of water  
log —

Surface  
Temp. (C)



BT 60 → 80      86 → BT 103



South Latitude

10 X 10 TO THE CENTIMETER 47 1513  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

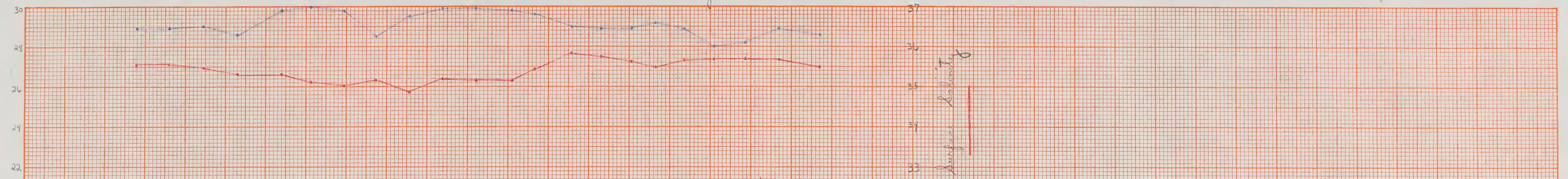


Shearwater (Cruise 13) March - May 1966

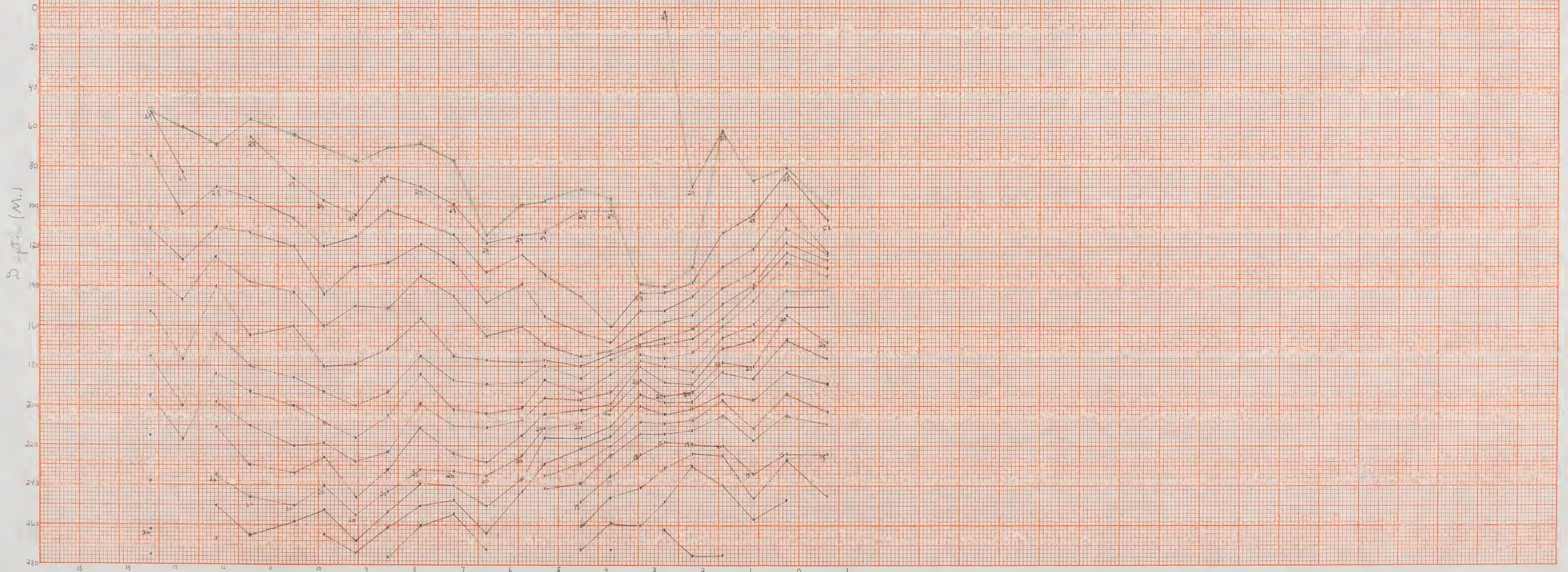
Leg 3 includes BT 104 - 126

Depth of mixed layer —

Surface Temp. (C)



BT 104 → 126



South Latitude

10 X 10 TO THE CENTIMETER 47 1513 KEUFFEL & ESSER CO. MADE IN U.S.A.



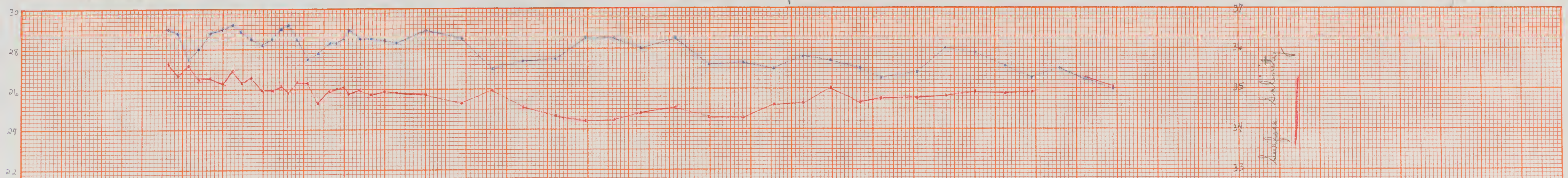
Shearwater (Cruise 13)

March-May 1966

Leg 4 includes BT 157-180 and 180-204

Depth of mixed layer —

Surface Temp. (C)



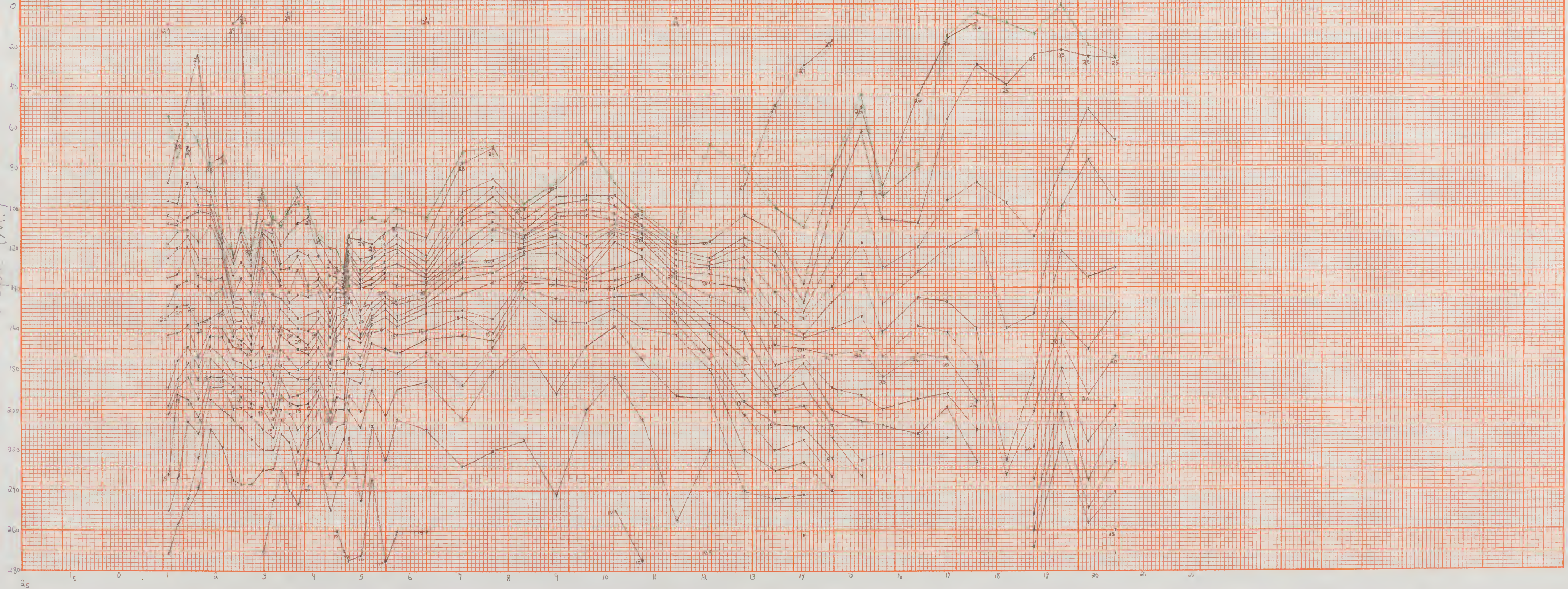
BT

157

204

K&E 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U.S.A. KEUFFEL & ESSER CO.

Depth (M.)



North Latitude



Stewart

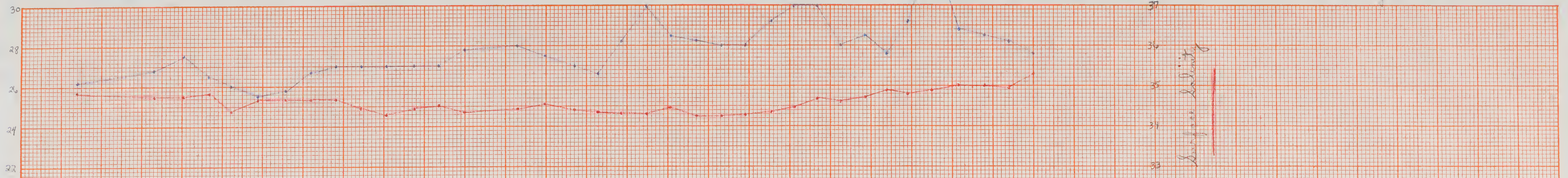
Sic-14

July 1960

Leg 1 includes BT 1-38

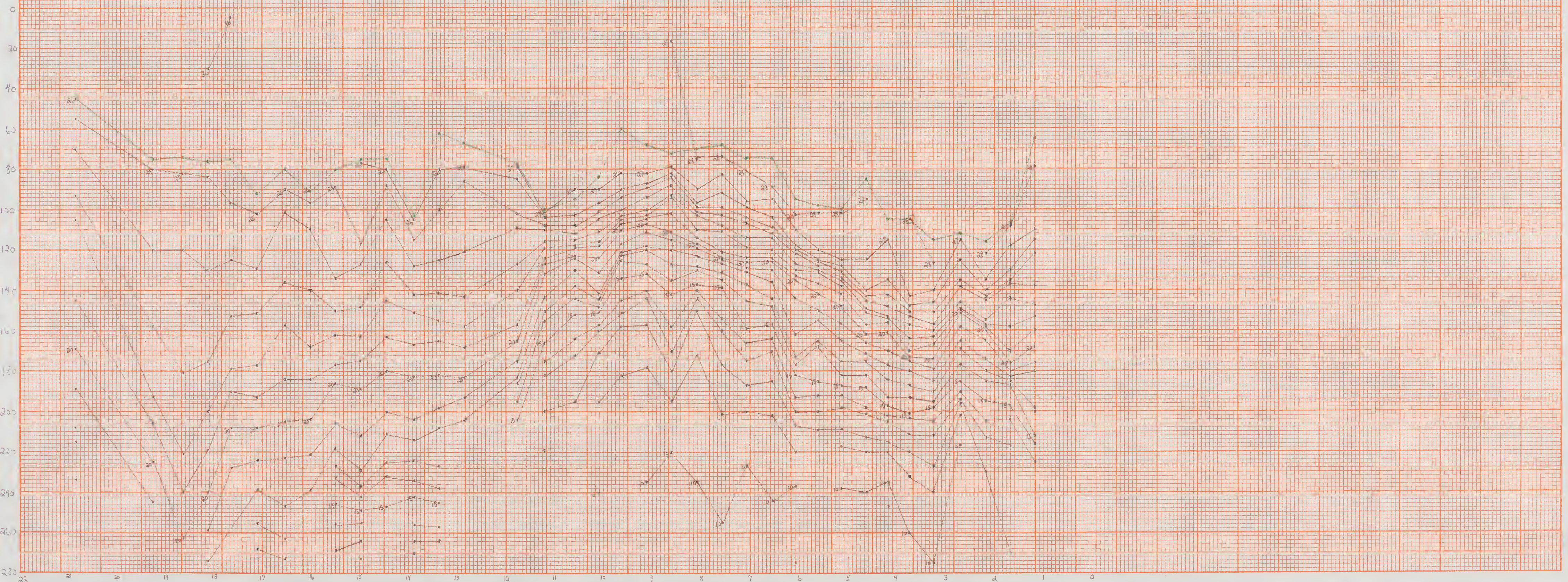
Depth of mixed layer

Surface Temp. (C)



BT

38



North Latitude

10 X 10 TO THE CENTIMETER 47 1513 KEUFFEL & ESSER CO. MADE IN U.S.A.



Shearwater

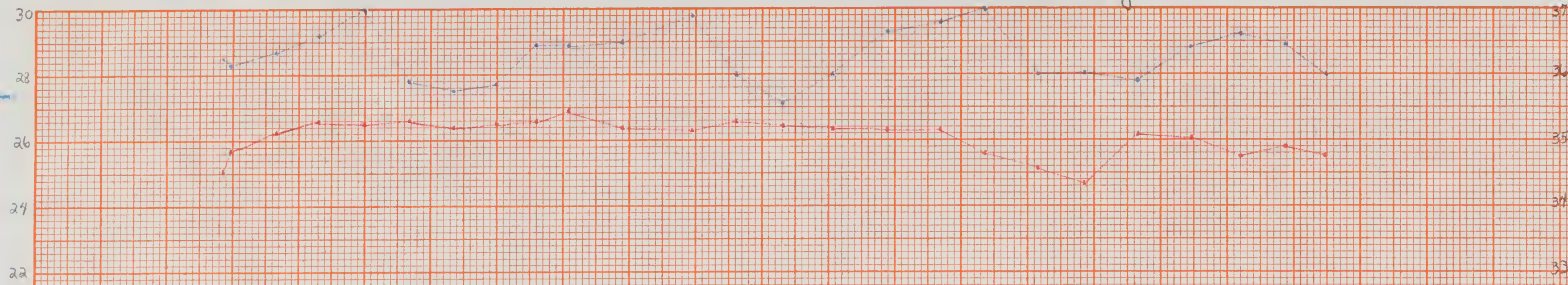
Sic - 14

July 1966

Leg 2 includes BT 84-108

Depth of mixed layer —

Surface Temp. (C)



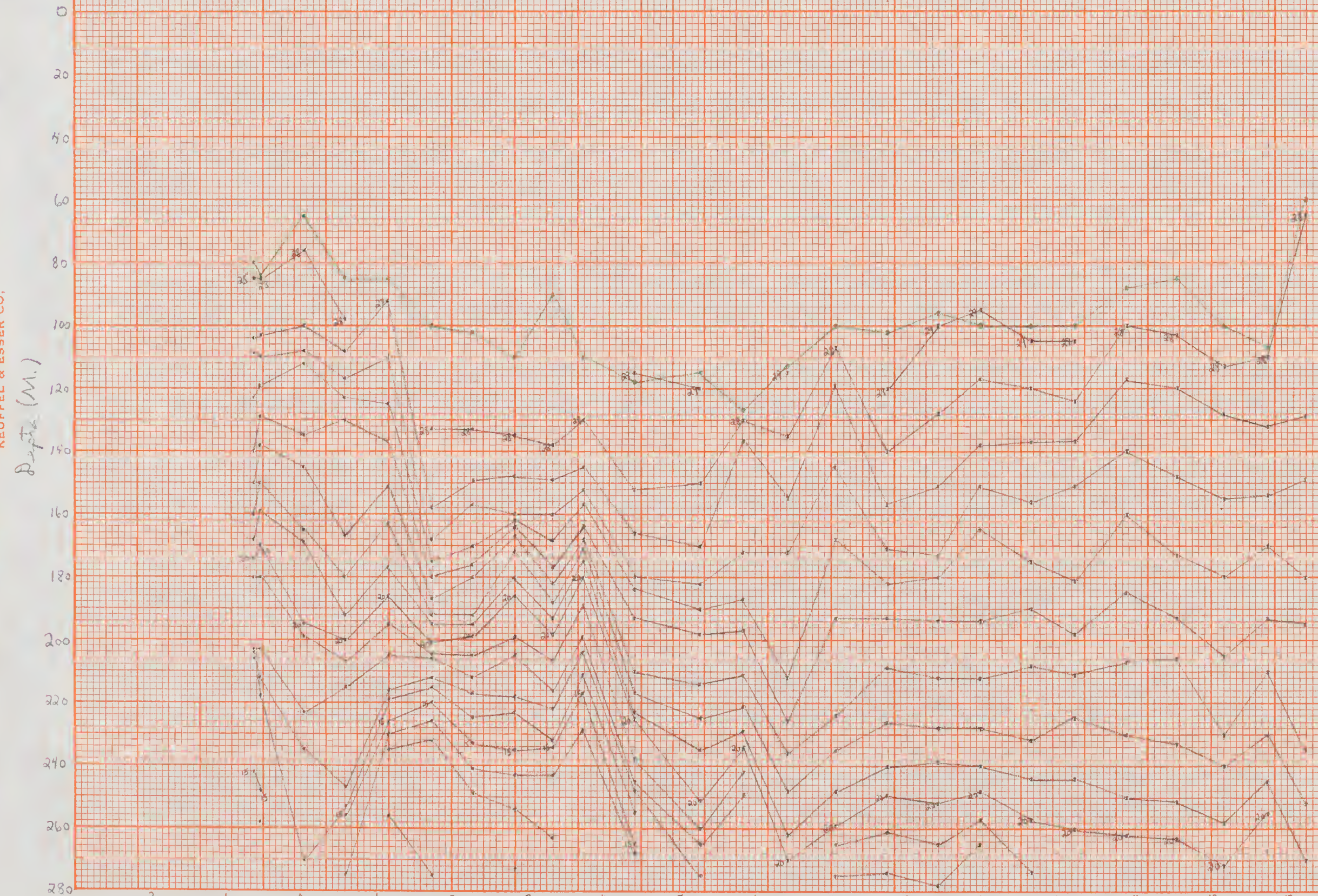
Surface Salinity



84

BT

108



KE 10 X 10 TO THE CENTIMETER 47 1513 KEUFFEL & ESSER CO. MADE IN U.S.A.

Depth (M.)

South Latitude



Shearwater

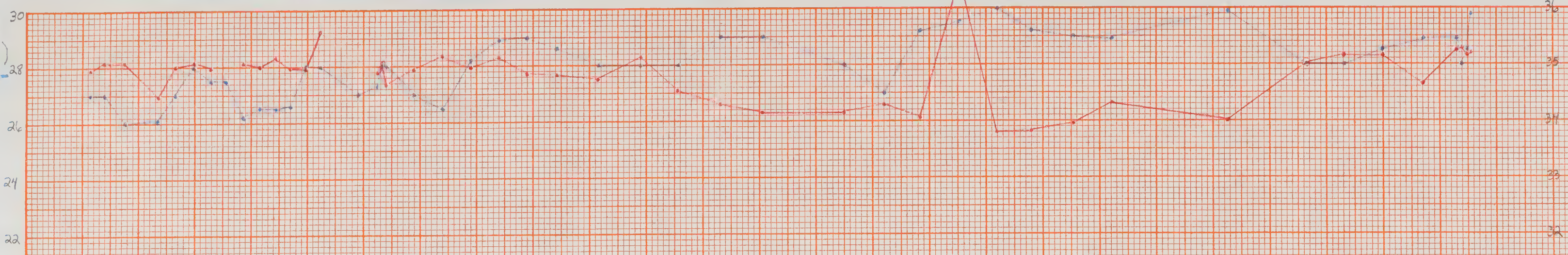
Sic - 15 (Cruise 19)

Sept. - Oct. 1966

Leg 1 includes BT 201-223 and 224-252

Depth of mixed layer

Surface Temp. (C)

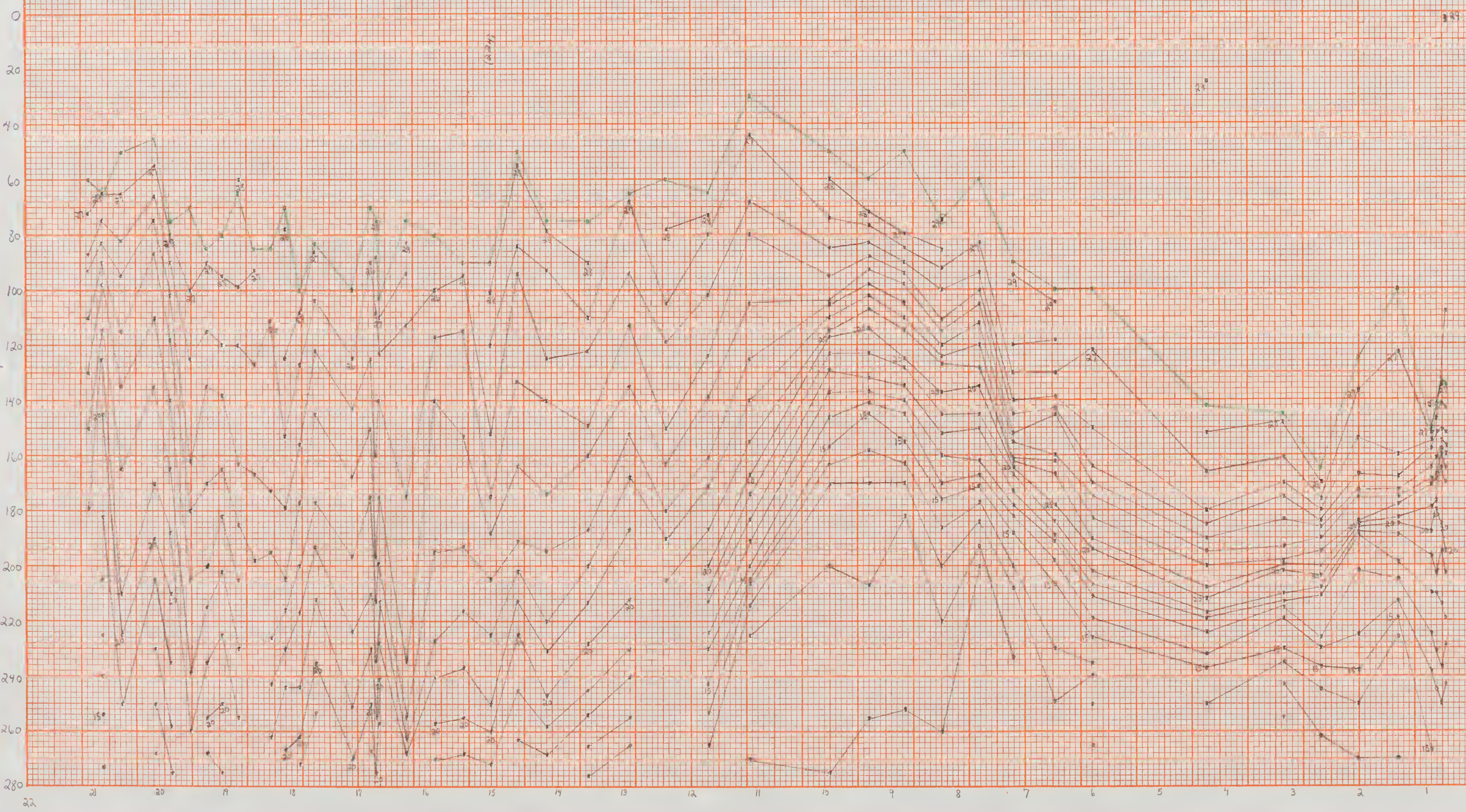


Surface Salinity

201 BT 252

10 X 10 TO THE CENTIMETER 47 1513 KEUFFEL & ESSER CO. MADE IN U.S.A.

Depth (M.)



North Latitude



Shearwater Sic - 15 (Cruise 19)

Sept. - Oct. 1966

Leg 2 includes BT 288-301 and 302-318

Depth of mixed layer —

Surface Temp. (C)

30  
28  
26  
24  
22

Surface Salinity

37  
36  
35  
34  
33

BT  
288 → 318

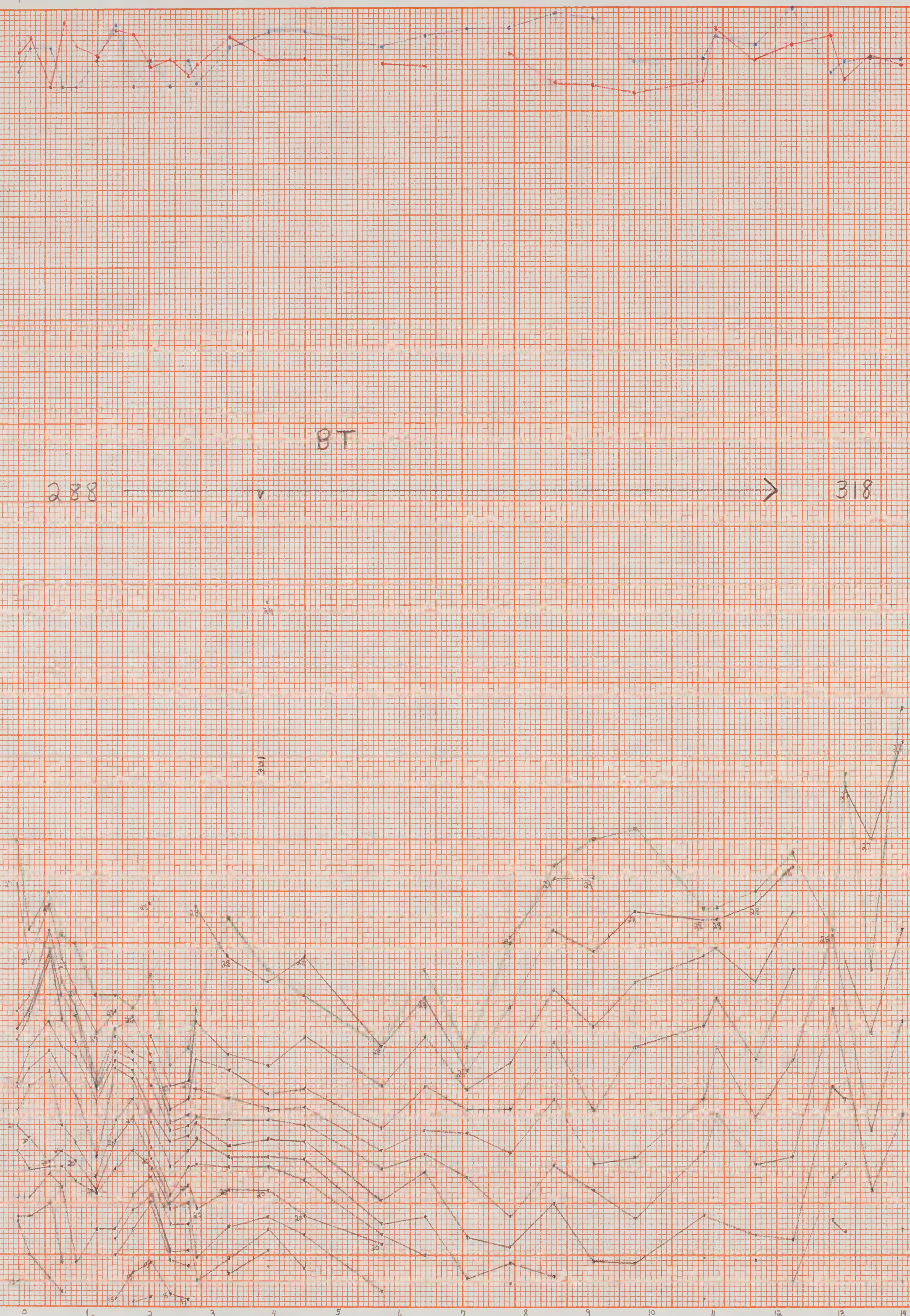
0  
20  
40  
60  
80  
100  
120  
140  
160  
180  
200  
220  
240  
260  
280

30  
29  
18  
0  
15  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15

South Latitude

KE 10 X 10 TO THE CENTIMETER 47 1513  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

Depth (M.)





Shearwater

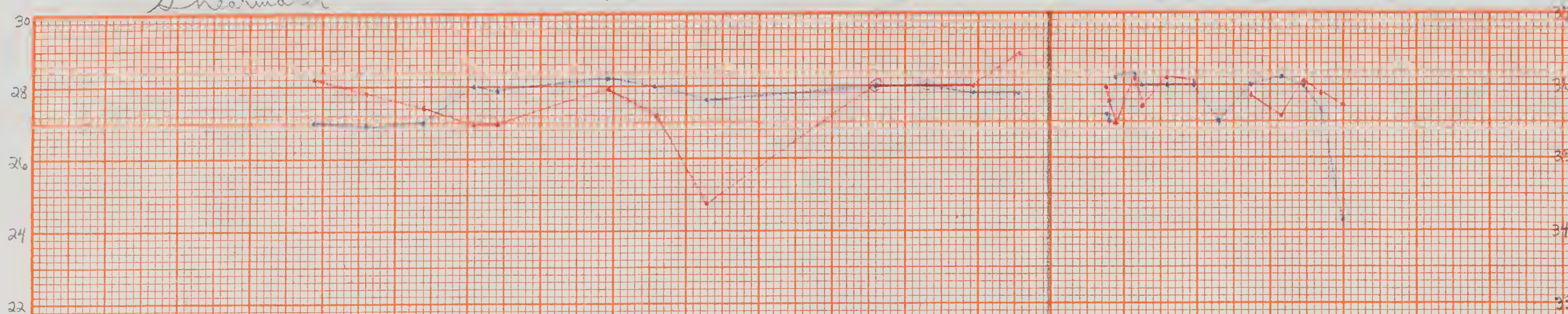
Sic - 15 (Cruise 19)

Sept. - Oct. 1966

Leg 3 includes BT 319 - 333 and 337 - 351

Depth of mixed layer         

Surface Temp. (C)

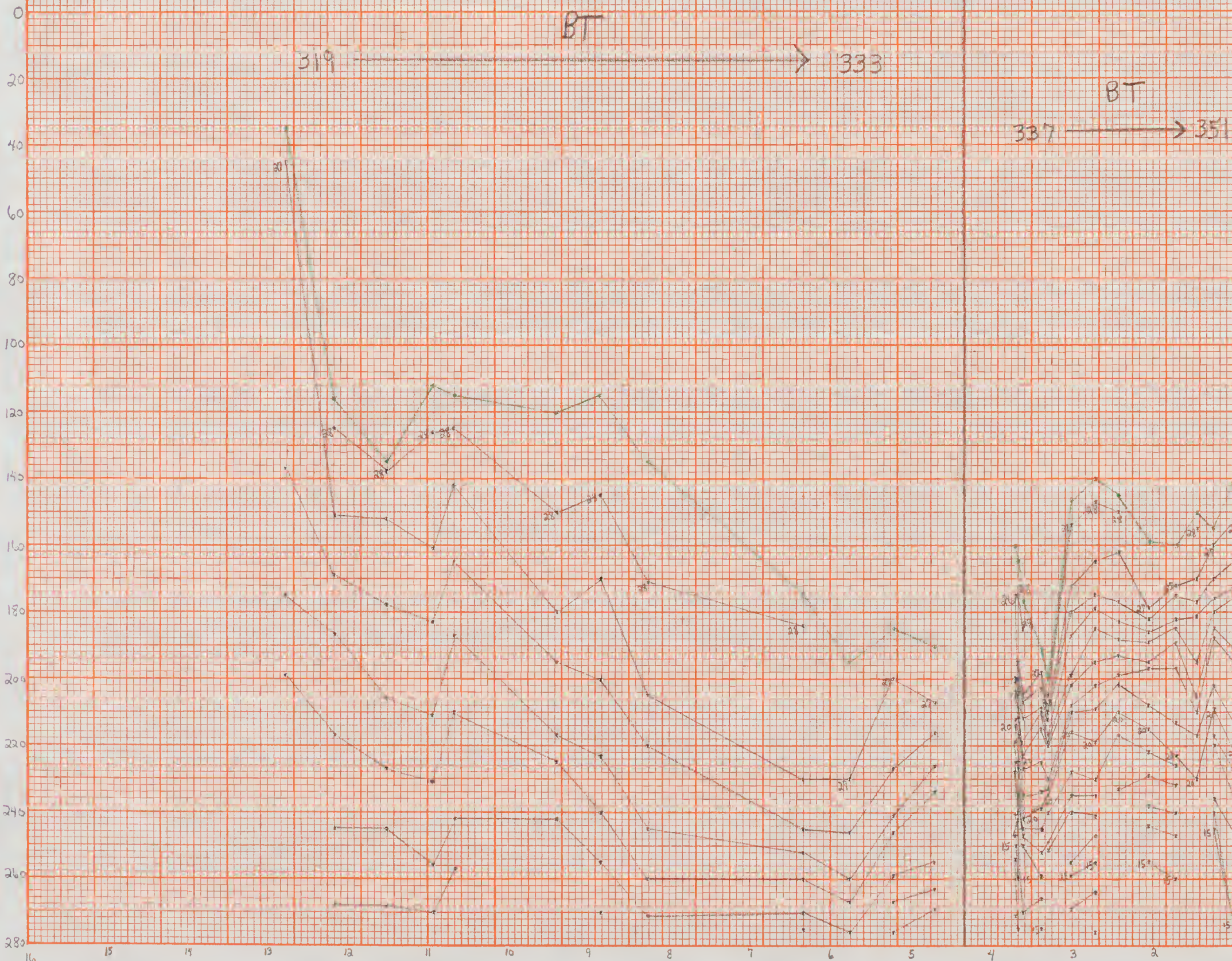


Surface Salinity



KE 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U.S.A. KEUFFEL & ESSER CO.

Depth (M.)



South Latitude



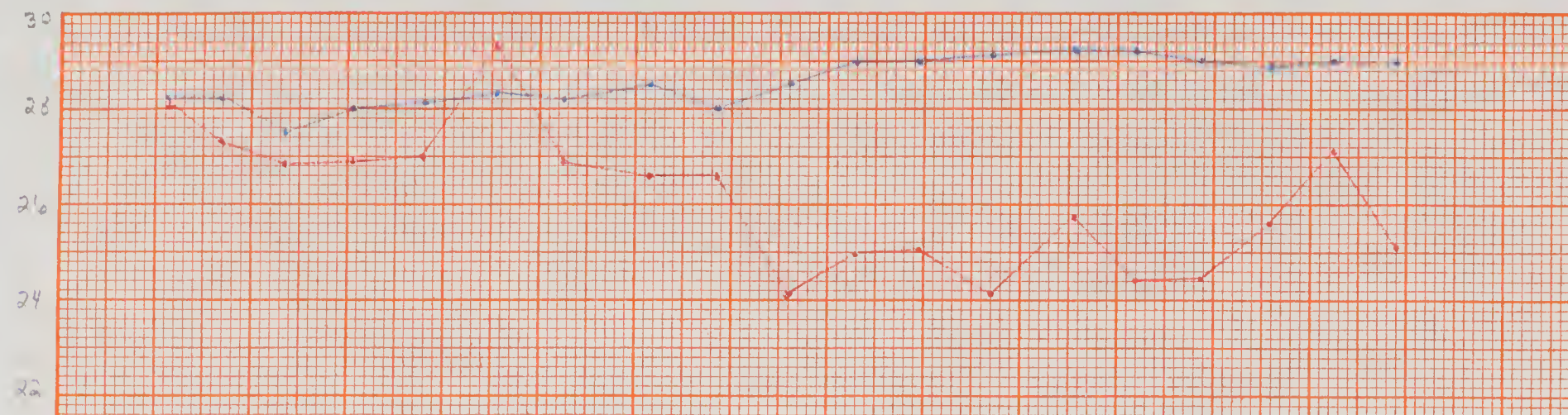
Shoewater Sic - 15 (Cruise 19)

Sept. - Oct. 1966

Log 4 includes BT 374 - 392

Depth of mixed layer           

Surface Temp. (C)

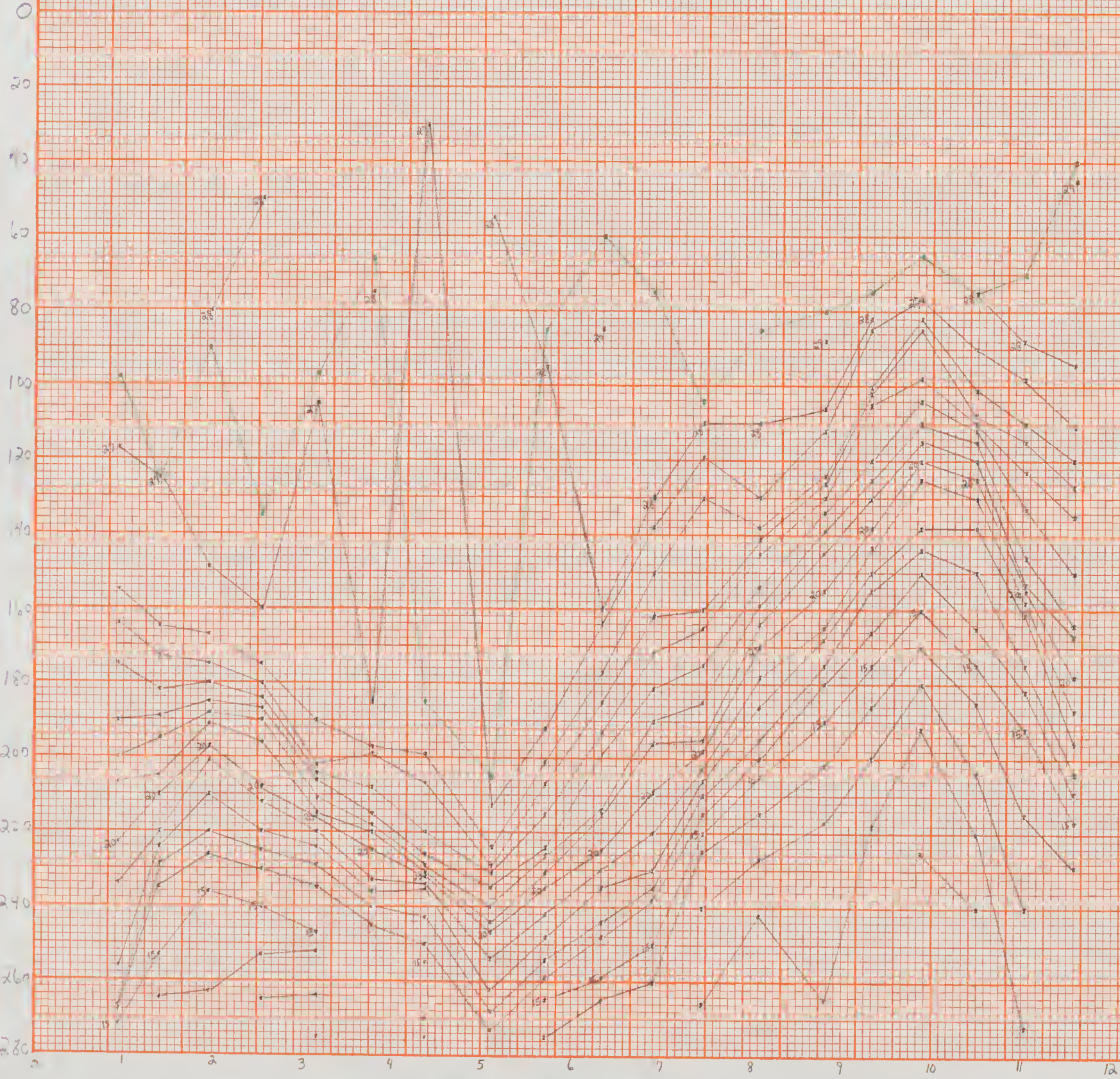


Surface Salinity

374 BT 392

KE 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U.S.A. KEUFFEL & ESSER CO.

Depth (M.)



North Latitude

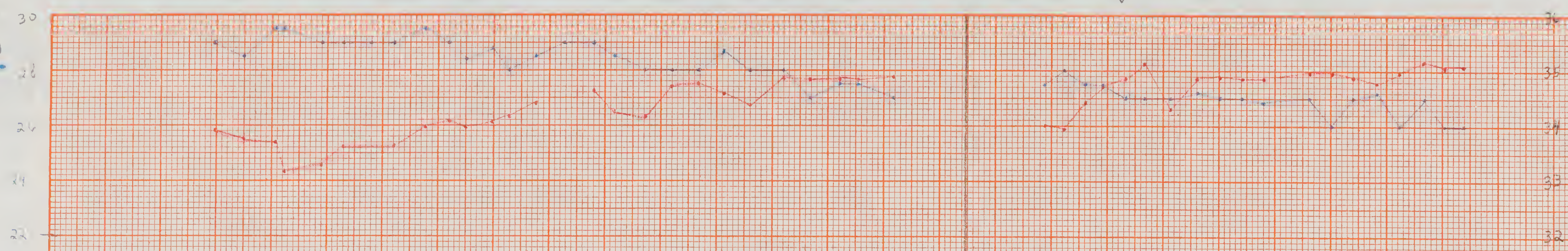


Shearwater SIC-16 (Cruise No. 20) Nov.-Dec. 1966

Lgt includes BT 1-19 and 23-49

Depth of mixed layer —

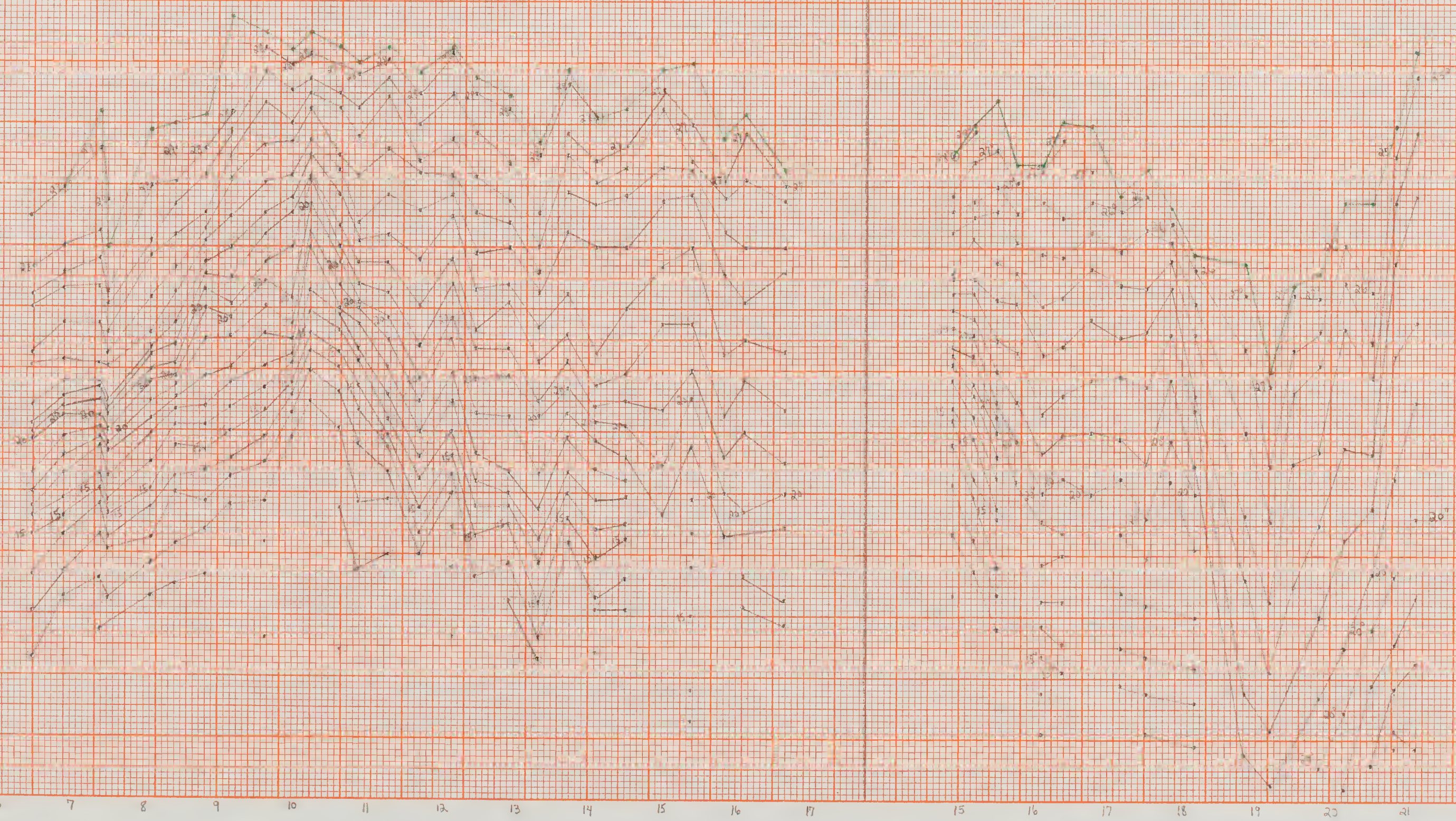
Surface Temp. (C)



Surface Salinity

49 ← BT → 23      19 ← BT →

0  
20  
40  
60  
80  
100  
120  
140  
160  
180  
200  
220  
240  
260  
280  
300



North Latitude

KE 10 X 10 TO THE CENTIMETER 47 1513  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.



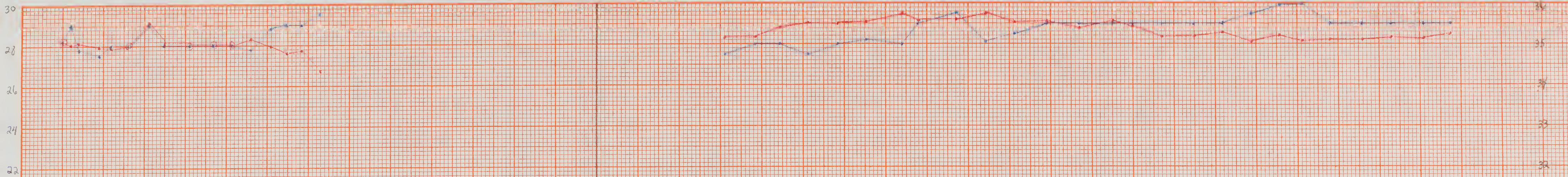
Shearwater SIC-16 (Cruise No. 20)

Nov. - Dec. 1966

Leg 2 includes BT 50-65 and 82-107

Surface Temp. (C)

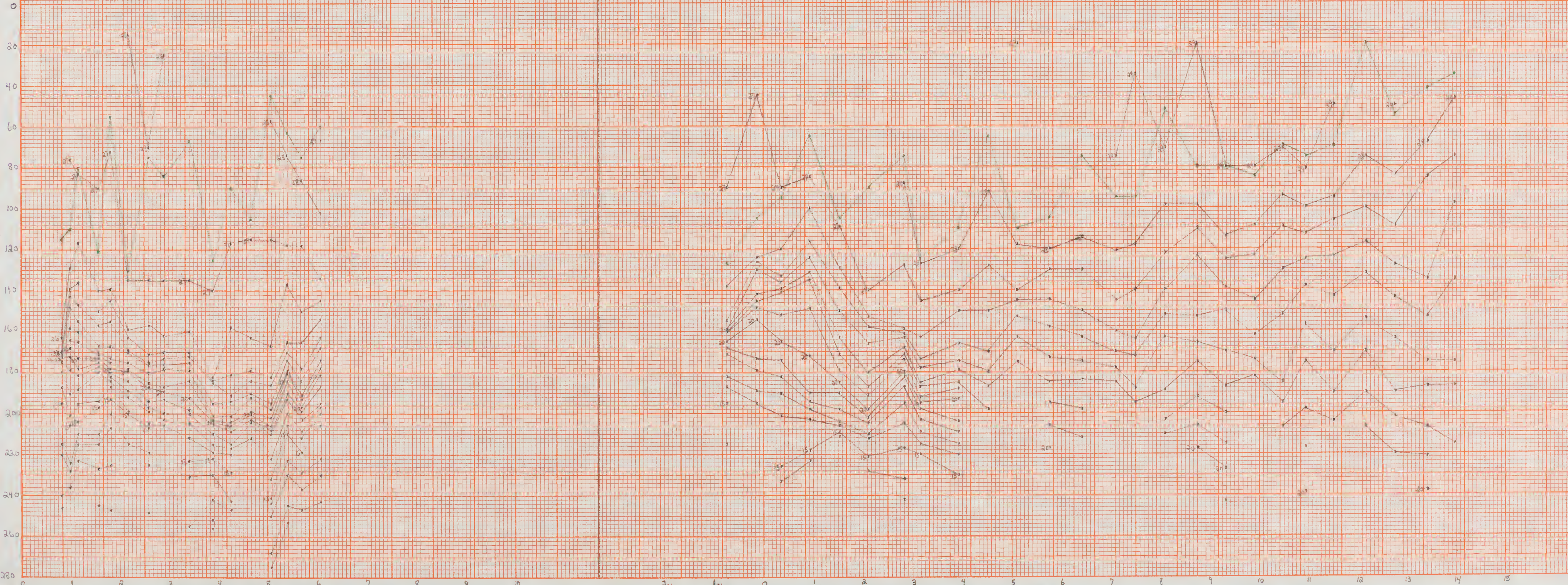
Surface Temp. (C)



Surface Salinity

65 < BT 50

82 BT 107



North Latitude

South Latitude

KE 10 X 10 TO THE CENTIMETER 47 1513  
 MADE IN U.S.A.  
 KEUFFEL & ESSER CO.

Depth (M.)



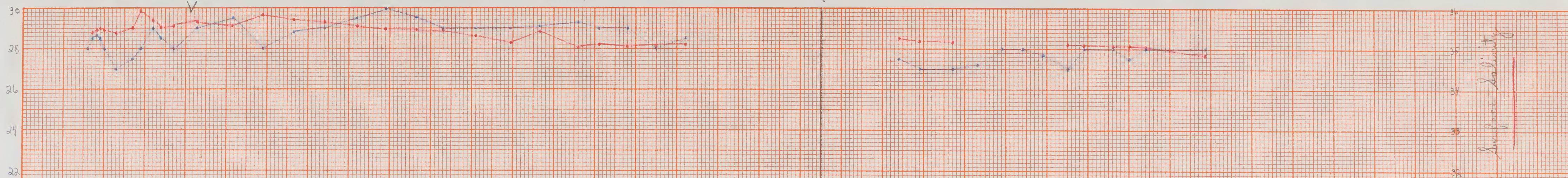
Shearwater SIC-16 (Cruise No. 20)

Nov. - Dec. 1966

Leg 3 includes BT 108-124, 125-135, and 162-174

Depth of mixed layer —

Surface Temp. (C)

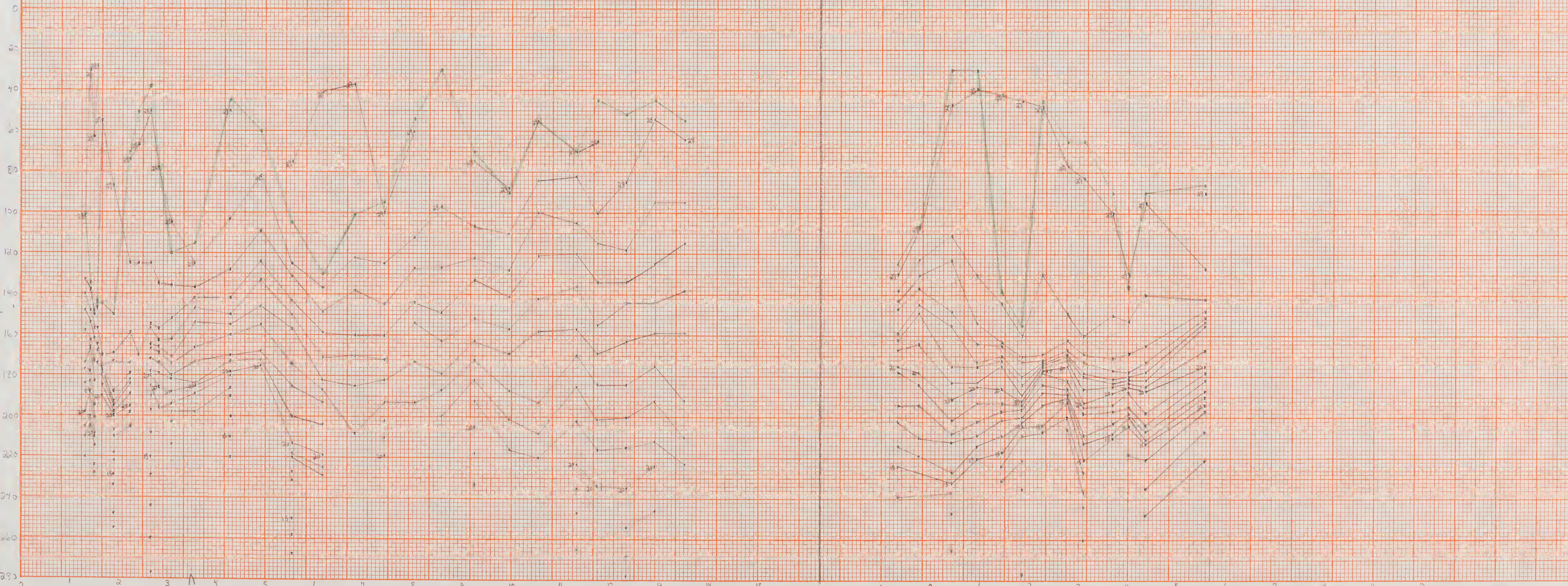


BT 135 ← 108

BT 162 → 174

KE 10 X 10 TO THE CENTIMETER 47 1513 MADE IN U.S.A. KEUFFEL & ESSER CO.

Depth (M.)



South Latitude

North Latitude



Bronville Hall

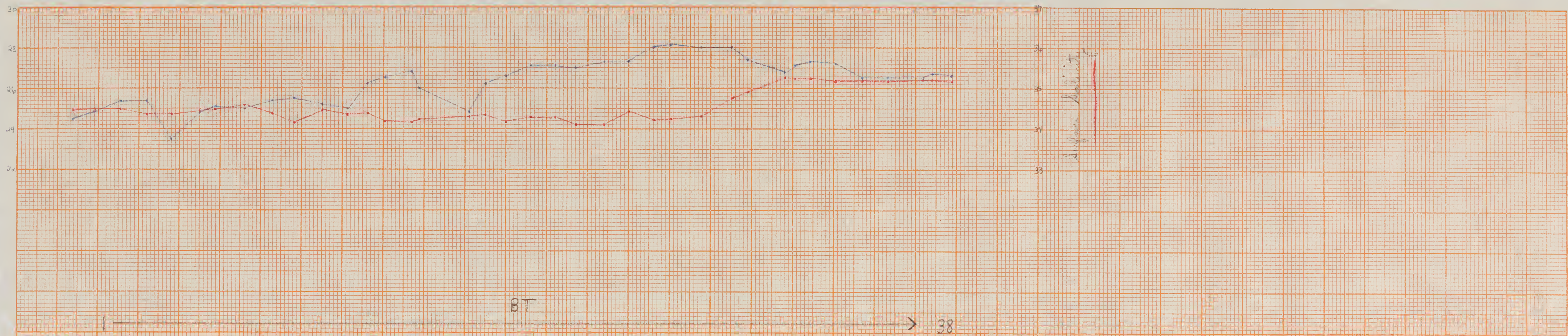
BT log

Jan. - March 1967

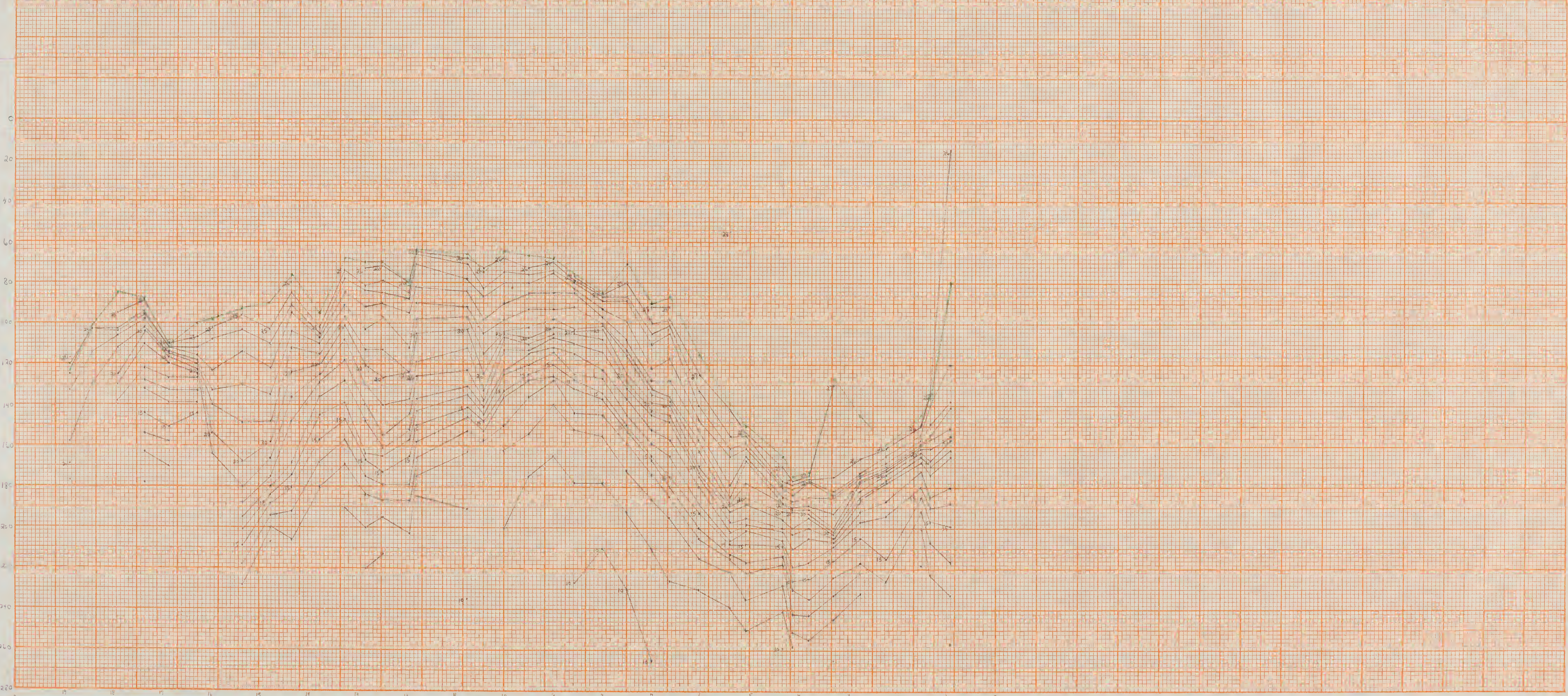
Fig 1 includes BT 1-38

Depth of mixed layer —

Temp. (C)



Surface Salinity



North Latitude

359-14L KEUFFEL & ESSER CO.  
Millimeters, 5 mm. lines accented, cm. lines heavy.  
MADE IN U.S.A.



Granville Hall

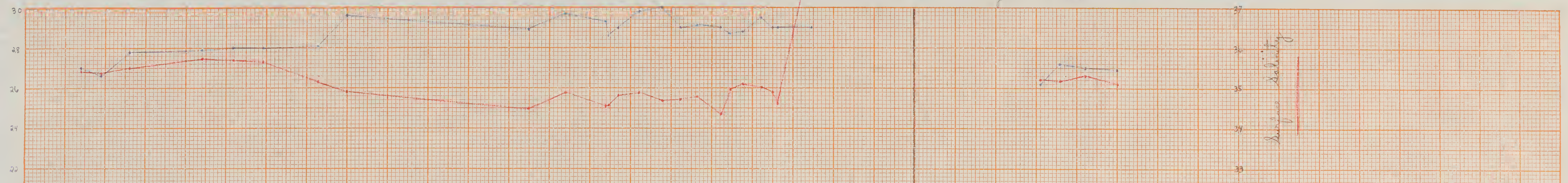
BT log

Jan. - March 1967

Leg 2 includes BT 74-97  
Leg 3 includes BT 98-101

Depth of mixed layer —

Surface Temp. (C)



Surface Salinity

Leg 2

Leg 3

BT

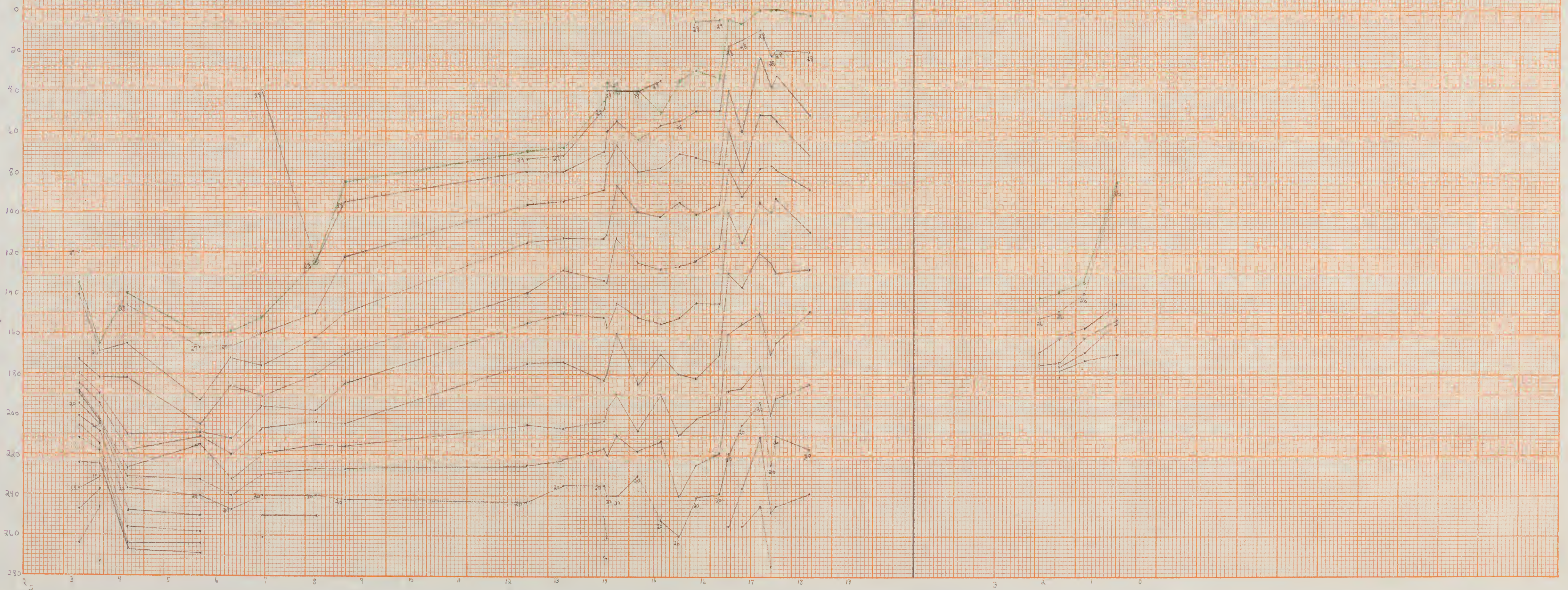
BT

74 → 97

98 → 101

359-14L KEUFFEL & ESSER CO.  
Millimeters, 5 mm. lines accented, cm. lines heavy.  
MADE IN U.S.A.

Depth (M)



South Latitude

South Latitude



Demille Hall

BT log

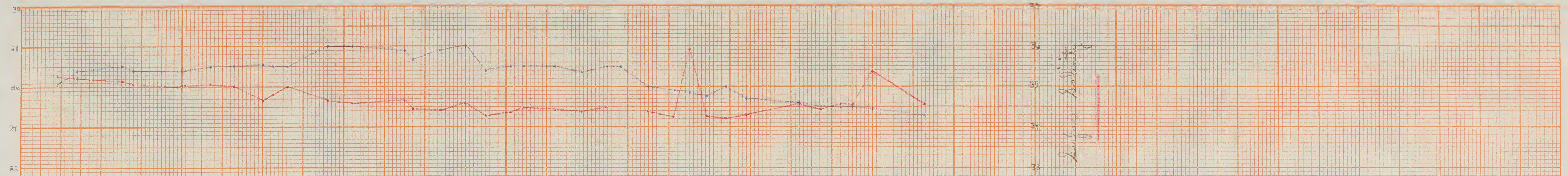
Jan. - March 1967

Log 4 includes BT 124 - 163

Depth of mixed layer —

Surface Temp. (C)

Surface Salinity



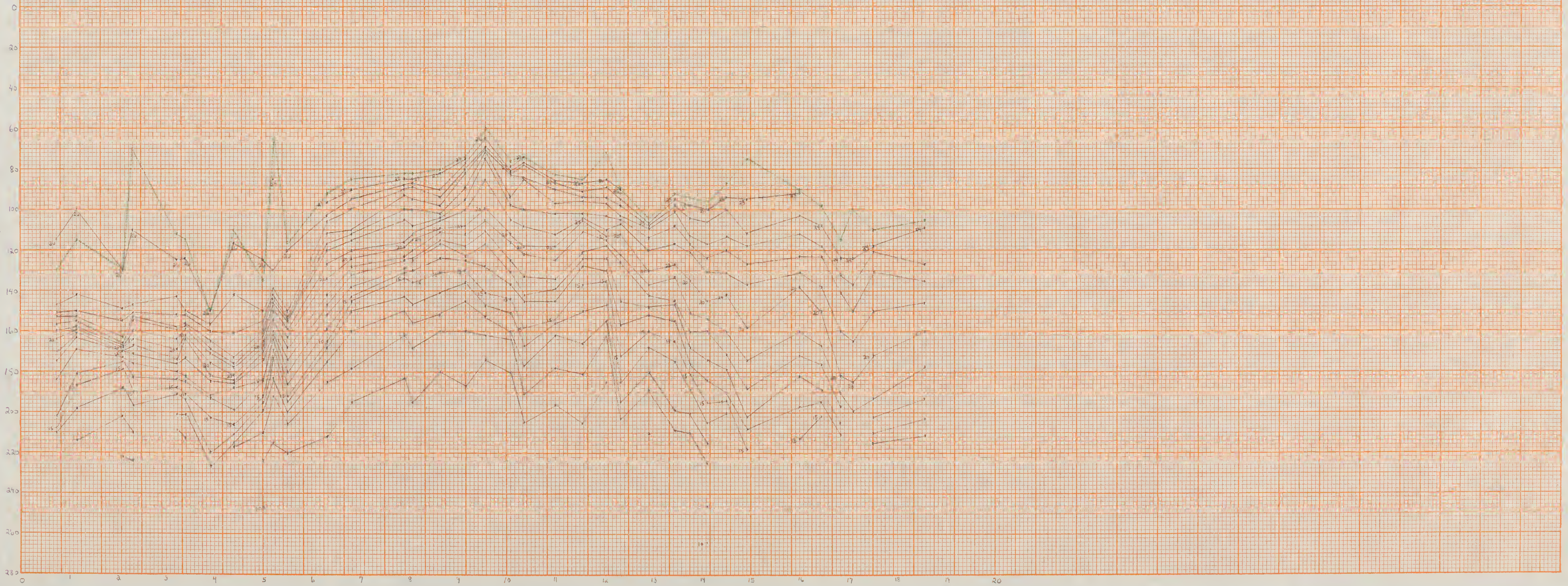
BT

124

163

359-14L KEUFFEL & ESSER CO. Millimeters, 5 mm. lines accented, cm. lines heavy. MADE IN U.S.A.

Depth (M)



North Latitude



USS George Eastman BT Log

March - April 1967

Leg 1 includes BT 1-25

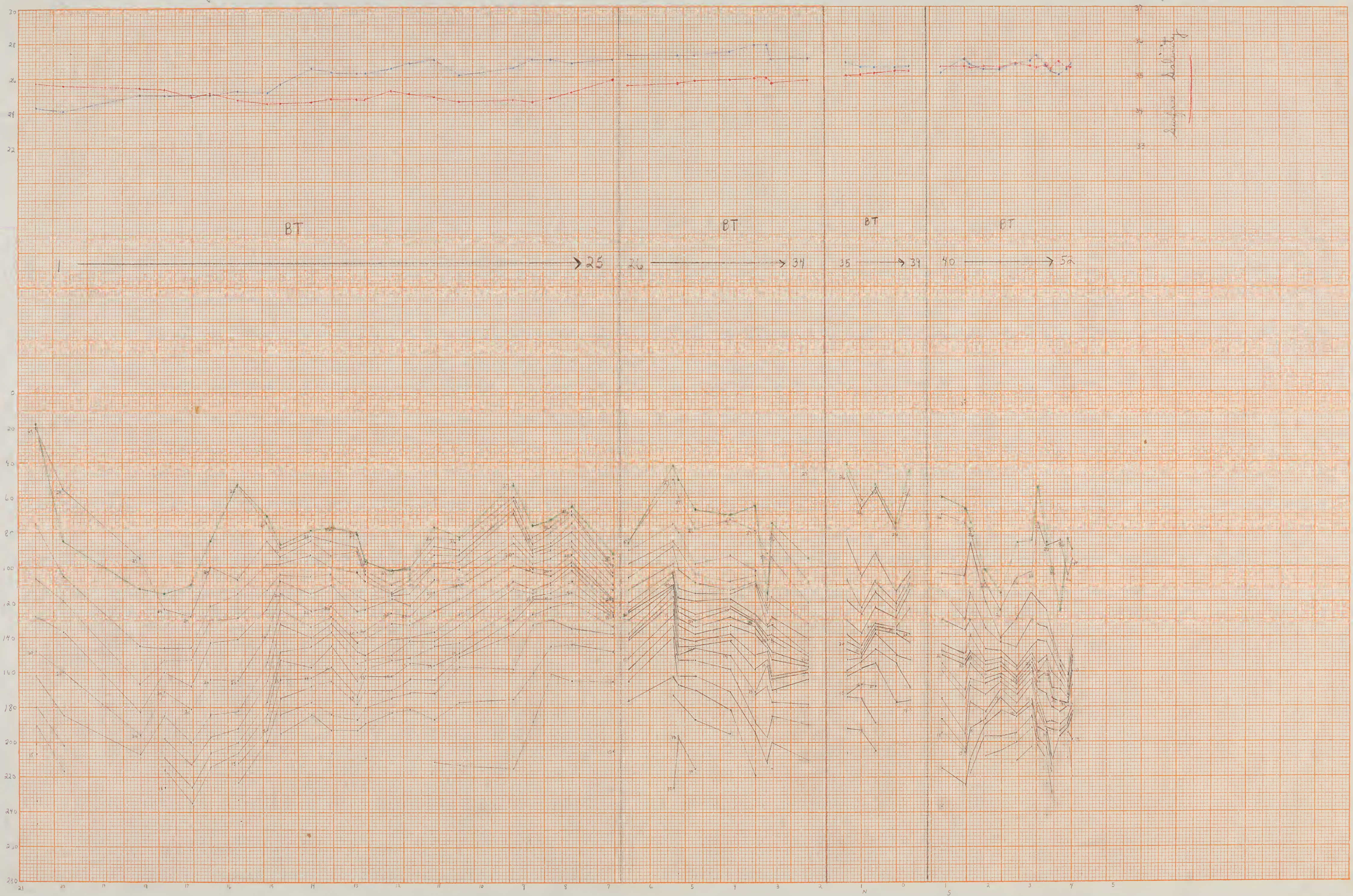
Leg 3 includes BT 35-39

Depth of  
mix layer —

Leg 2 includes BT 26-34

Leg 4 includes BT 40-52

Surface  
Temp. (C)



KEUFFEL & ESSER CO.  
390-14L  
Millimeters, 5 mm. lines accented, cm. lines heavy.  
MADE IN U.S.A.

Depth (m)

North Latitude

North Latitude



USS George Eastman BT Log

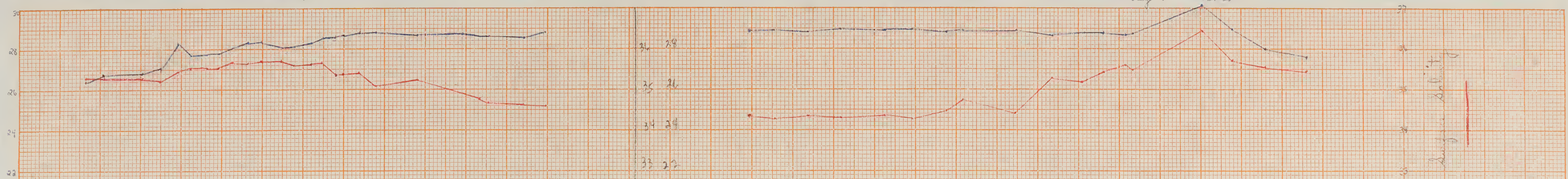
March - April 1967

Log 5 includes BT 53-80

Log 6 includes BT 81-98

Depth of mixed layer —

Surface  
temp. (C)

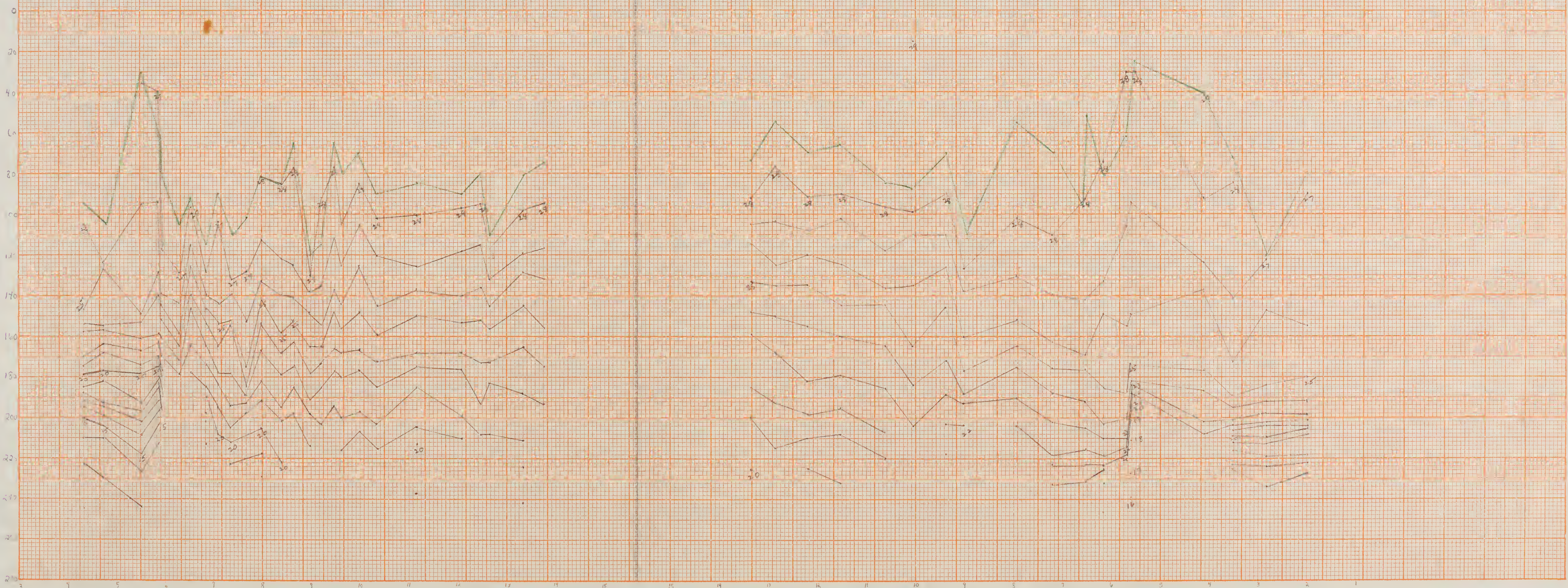


BT 53 → 80

BT 81 → 98

359-14L KEUFFEL & ESSER CO.  
Millimeters, 5 mm. lines accented, cm. lines heavy  
MADE IN U.S.A.

Depth (M)



South Latitude

South Latitude

100



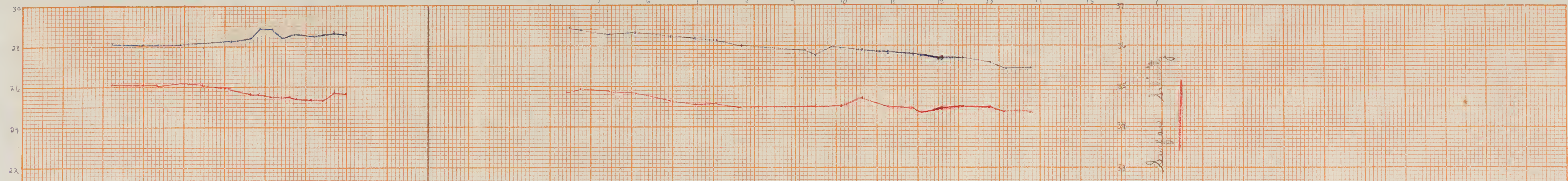
USS George Eastman BT Log

March - April 1967

Leg 7 includes BT 132 - 147  
Leg 8 includes BT 151 - 170

Depth of mixed layer —

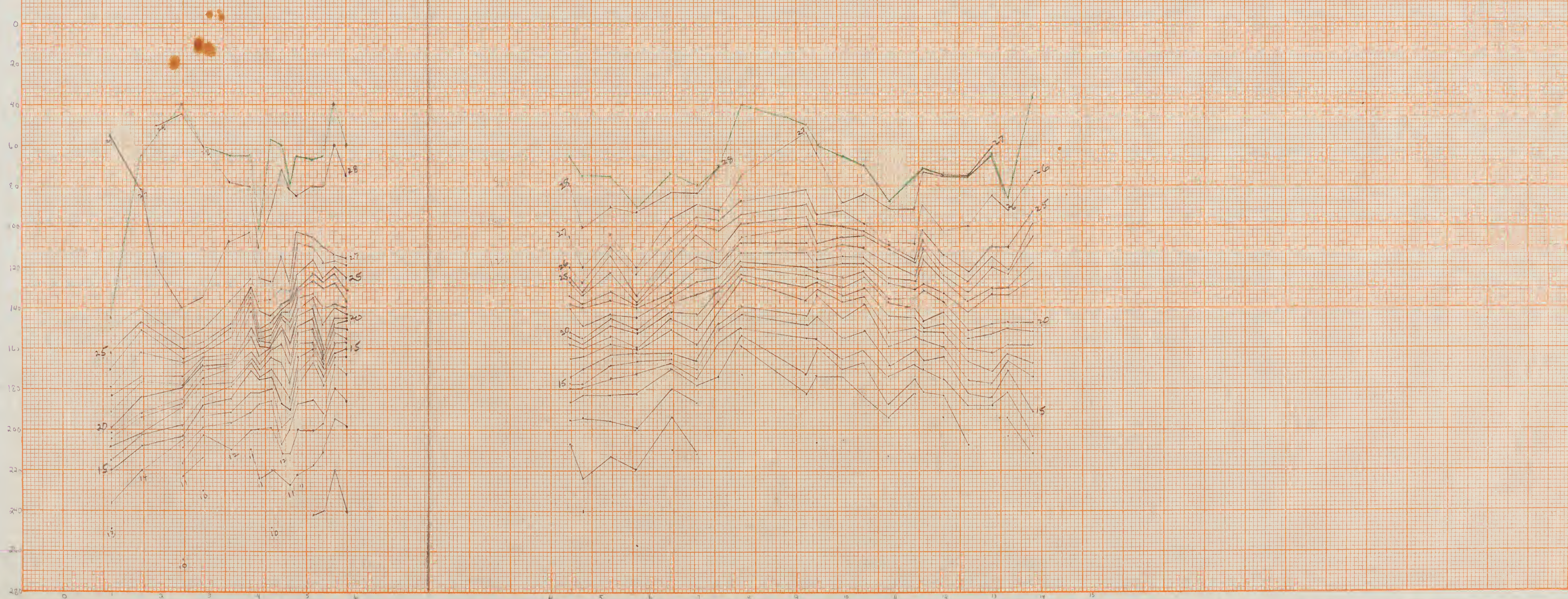
Surface Temp. (C)



Surface Salinity

BT 132 → 147

BT 151 → 170

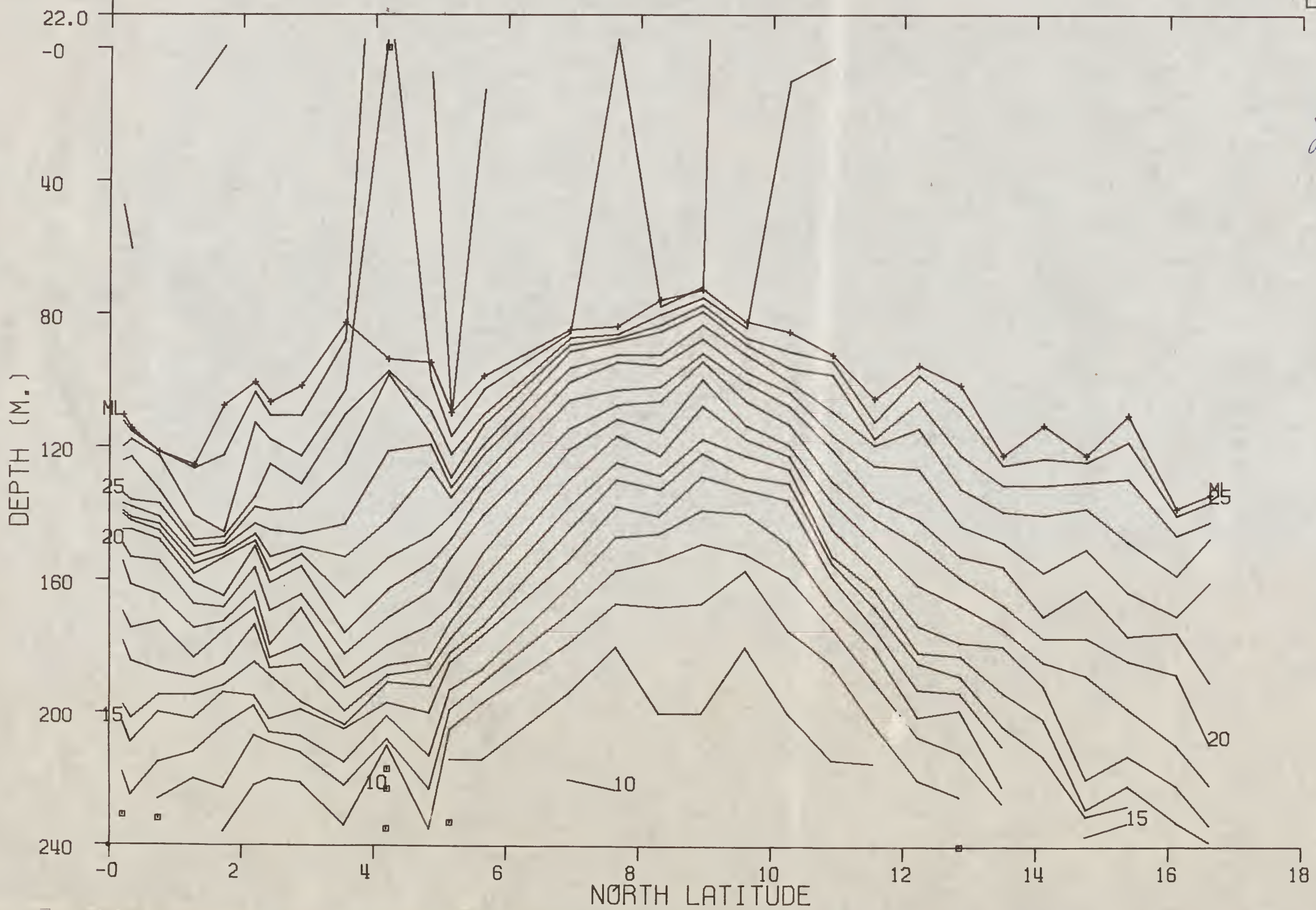
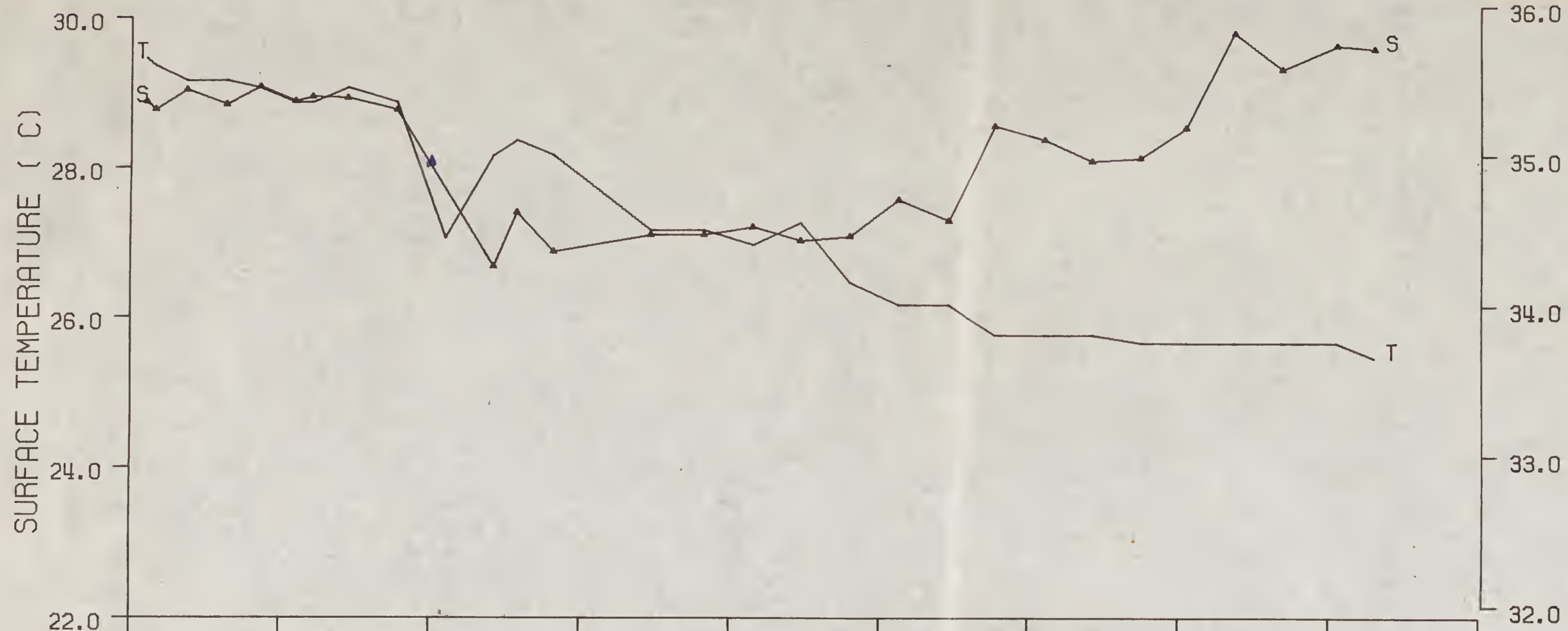


March Latitude

March Latitude

399-14L KEUFFEL & ESSER CO.  
Millimeters, 5 mm. lines accented, cm. lines heavy.  
MADE IN U.S.A.



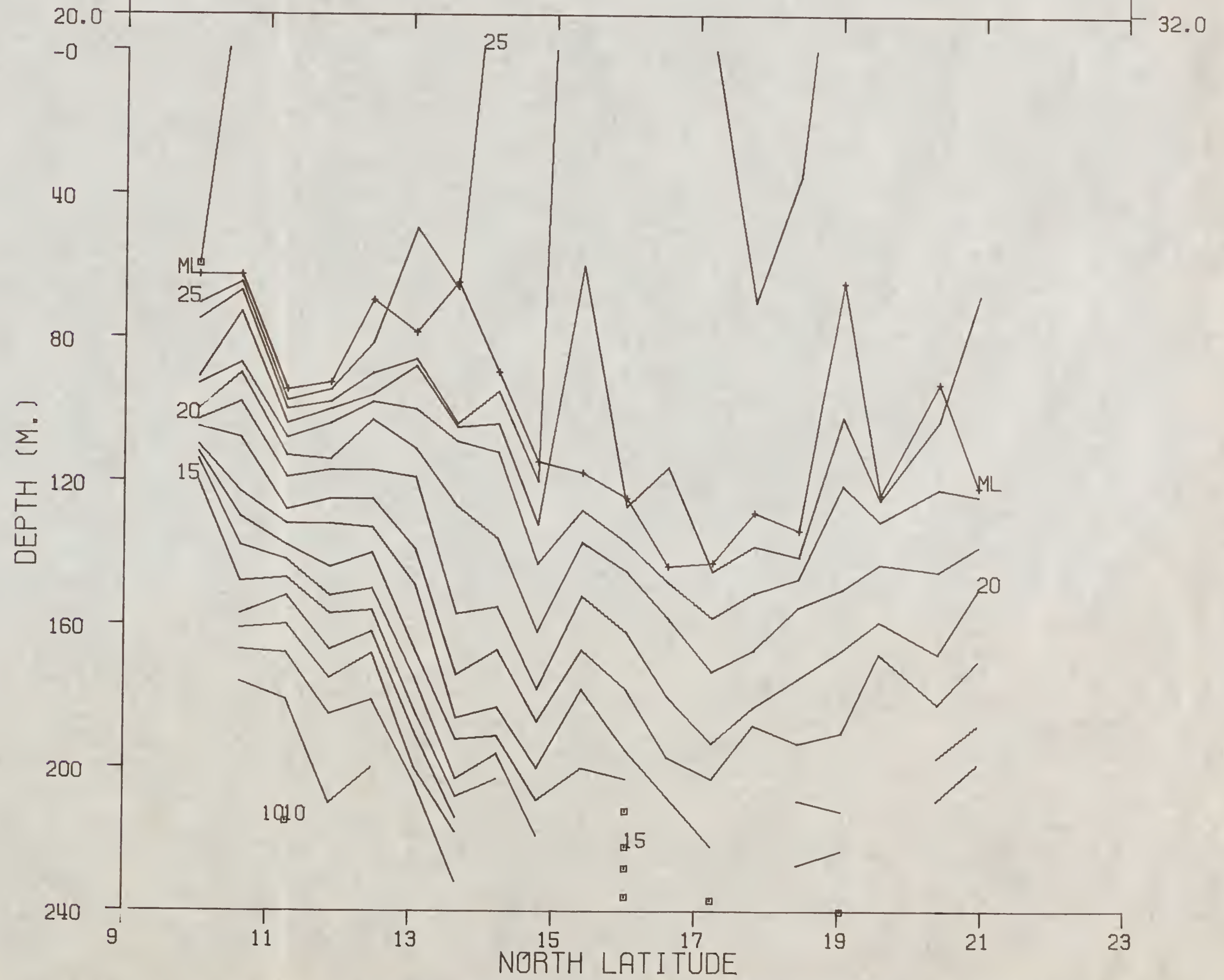
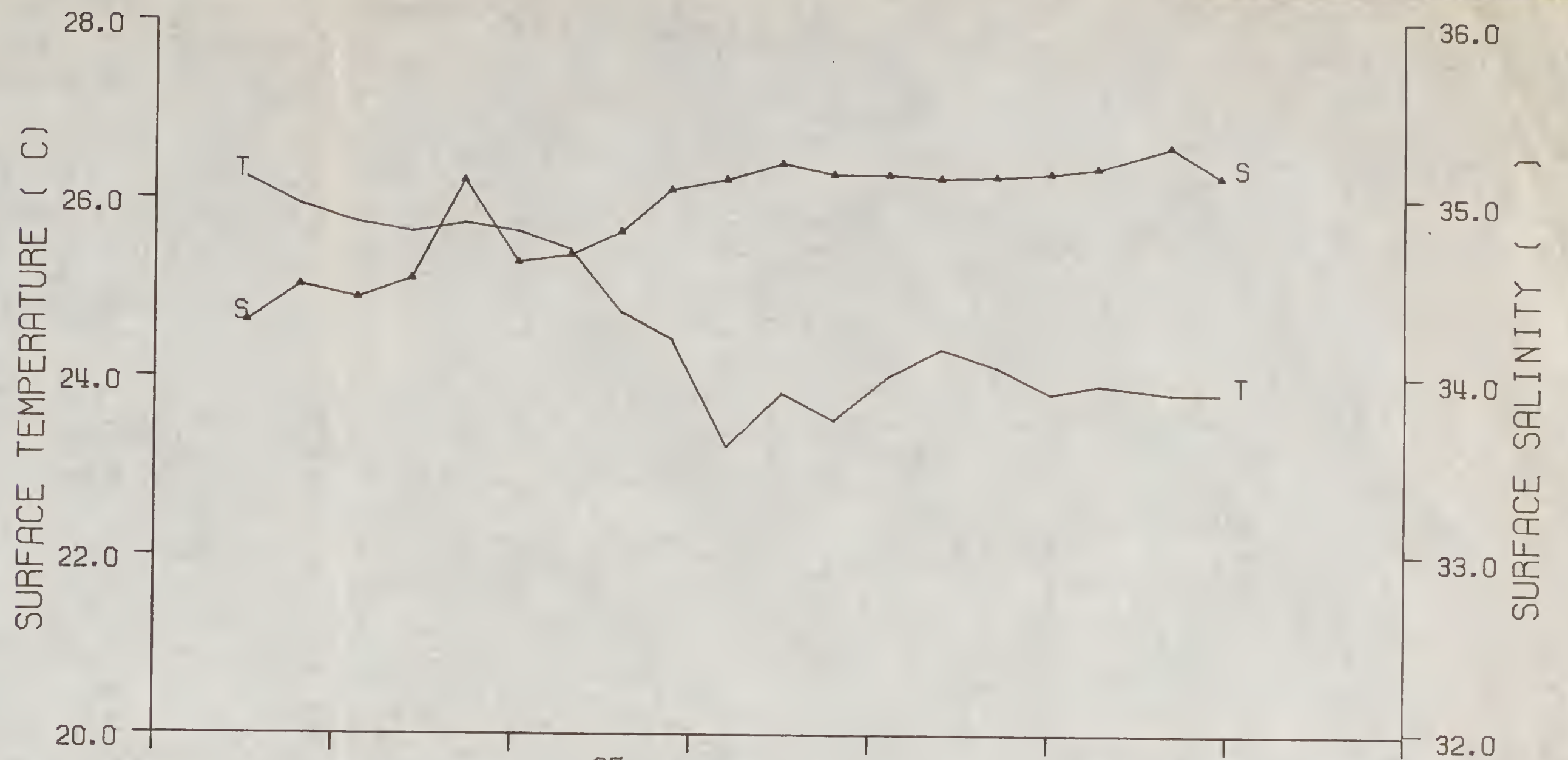


*Shearwater Cruise 121  
 Jan-Mar 1966 leg 2*

*1072*



Shearwater cruise 12  
Jan-Mar. 1966. Leg 1





VESSEL CODE	CRUISE NO.	MONTH	DAY	YEAR	Hour	LATITUDE	LONGITUDE	B.T. NO.	BUCKET TEMP. C	SURFACE SALINITY	ST. ML	DEPTH (M)
VES	CR	DATE	HR		LAT	LON	N	BT	SS	ST	ML	
0	39	310672000	1	2034	5806			1243	486	243	18	
0	39	310672400	1	1955	5800			2241	479	241	85	
0	39	311671200	1	1805	5817			3250	471	248	112	
0	39	311671600	1	1731	5830			4250	467	248	115	
0	39	311672000	1	1652	5843			5250	446	249	110	
0	39	31267 00	1	1624	5854			6250	455	250	85	
0	39	31267 400	1	1545	5908			7252	434	251	53	
0	39	31267 800	1	1503	5916			8251	423	254	71	
0	39	312671200	1	1444	5937			9256	424	256	87	
0	39	312671600	1	1401	5950			10265	428	258	79	
0	39	312672000	1	1332	6008			11263	438	263	77	
0	39	312672400	1	1255	6025			12262	435	262	81	
0	39	31367 400	1	1243	6022			13262	435	262	97	
0	39	31367 800	1	1207	6038			14265	458	266	102	
0	39	313671200	1	1141	6047			15268	452	264	101	
0	39	313671600	1	1106	6056			16270	442	267	77	
0	39	313672000	1	1103	6104			17261	430	263	83	
0	39	313672400	1	1011	6113			18260	427	271	0	
0	39	31467 400	1	940	6121			19260	412	271	0	
0	39	31467 800	1	913	6133			20265	433	271	53	
0	39	314671200	1	846	6139			21270	427	264	76	
0	39	314671600	1	820	6139			22270	439	267	73	
0	39	314672000	1	750	6149			23268	454	267	65	
0	39	314672400	1	752	6158			24270	485	274	95	
0	39	31567 400	1	652	6347			25270	493	274	92	
0	39	31567 800	1	630	6213			26272	474	276	86	
0	39	318672000	1	527	6245			27 0	0	278	42	
0	39	319672400	1	519	6128			28272	481	276	50	
0	39	31967 400	1	455	6100			29272	488	275	67	
0	39	31967 800	1	406	6044			30274	491	274	70	
0	39	321671600	1	330	5900			31278	495	279	65	
0	39	321672000	1	313	5847			32278	495	278	115	
0	39	321672400	1	307	5904			33270	480	267	75	
0	39	32267 400	1	215	5746			34270	488	272	95	
0	39	325671600	1	120	5815			35268	504	262	41	
0	39	325672000	1	59	5833			36265	505	266	62	
0	39	325672400	1	39	5904			37265	508	263	53	
0	39	32667 400	1	105	925			38265	517	265	75	
0	39	32667 800	6	95	947			39266	516	264	45	
0	39	328671200	6	105	5929			40262	528	267	60	
0	39	328671600	6	128	5854			41270	529	271	67	
0	39	328672000	6	136	5812			42267	526	267	75	
0	39	328672400	6	157	5813			43264	530	267	102	
0	39	32967 400	6	219	5728			44264	526	265	115	
0	39	32967 800	6	242	5707			45267	537	269	86	
0	39	329671200	6	303	5642			46269	530	268	85	
0	39	329671600	6	312	5632			47272	525	265	55	
0	39	329672000	6	324	5608			48267	532	265	86	
0	39	329672400	6	332	5551			49263	521	262	102	
0	39	33067 400	6	343	5542			50261	543	264	125	

SIC 18  
EASTMAN

DEPTHS OF ISOTHERM

29°	28°	27°	26°	25°	24°	23°	22°	21°	20°	19°	18°	17°	16°	15°	14°	13°	12°	11°	10°	9°	8°
0	0	0	0	0	20	75	106	128	148	162	180	191	201	207	234	247	0	0	0	0	0
0	0	0	0	0	55	105	119	137	160	185	202	217	0	0	0	0	0	0	0	0	0
0	0	0	0	0	95	145	167	183	196	207	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	124	146	153	160	171	185	198	209	216	226	0	0	0	0	0	0	0
0	0	0	0	0	128	146	153	168	181	200	213	226	235	0	0	0	0	0	0	0	0
0	0	0	0	0	100	122	130	143	164	184	197	206	214	0	0	0	0	0	0	0	0
0	0	0	0	54	107	115	129	141	165	182	192	200	206	212	223	233	0	0	0	0	0
0	0	0	0	75	85	98	113	124	138	154	165	177	184	193	199	0	0	0	0	0	0
0	0	0	0	89	94	98	104	108	115	124	132	148	153	164	175	184	195	0	0	0	0
0	0	0	0	82	85	93	105	115	125	134	140	145	157	163	168	177	184	0	0	0	0
0	0	0	0	77	85	93	100	104	110	122	128	132	137	145	157	165	184	193	206	0	0
0	0	0	80	89	91	103	116	125	137	143	148	155	165	174	178	187	193	0	0	0	0
0	0	0	97	102	104	108	119	124	136	140	150	153	158	162	170	180	189	209	0	0	0
0	0	0	102	110	114	115	116	118	126	132	141	150	153	162	170	175	183	0	0	0	0
0	0	0	100	105	107	110	115	122	128	133	140	142	152	155	164	172	181	0	0	0	0
0	0	0	83	88	93	98	99	107	114	125	137	142	145	156	164	172	187	211	0	0	0
0	0	0	84	90	93	97	101	107	110	118	127	133	143	149	151	157	177	213	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	52	60	62	67	69	82	86	92	99	108	112	124	130	138	158	175	215	0	0	0
0	0	83	87	90	92	94	98	101	103	113	115	117	118	127	133	160	188	0	0	0	0
0	0	77	80	86	88	90	95	102	105	109	110	115	118	123	130	145	161	0	0	0	0
0	0	68	70	75	80	85	88	93	97	99	102	108	114	120	135	144	165	0	0	0	0
0	0	97	103	105	106	109	110	113	115	121	123	127	135	142	145	148	155	168	0	0	0
0	0	95	99	100	103	105	110	113	118	119	123	126	127	128	134	138	148	165	205	0	0
0	0	84	90	98	106	113	120	125	126	130	138	140	141	152	158	165	176	0	0	0	0
0	0	50	75	85	88	98	103	105	110	111	112	117	120	127	134	140	162	173	226	0	0
0	0	60	80	89	101	112	117	122	125	129	133	140	145	150	153	162	167	187	196	275	0
0	0	78	98	104	109	115	119	127	130	134	138	142	145	146	153	162	170	187	215	0	0
0	0	73	93	108	113	115	118	122	123	128	133	138	142	150	158	171	181	195	0	0	0
0	0	79	102	105	108	109	127	130	131	134	138	150	158	171	173	188	194	219	0	0	0
0	0	92	119	123	126	133	134	139	141	144	146	148	153	156	168	197	212	0	0	0	0
0	0	81	94	117	128	133	138	141	148	153	162	164	170	177	185	200	215	0	0	0	0
0	0	45	109	120	132	141	149	151	153	155	157	158	160	164	178	190	210	0	0	0	0
0	0	47	84	107	119	130	138	143	147	153	159	162	172	174	192	206	0	0	0	0	0
0	0	67	105	123	127	138	145	147	150	152	154	158	167	175	193	0	0	0	0	0	0
0	0	55	92	108	114	123	132	134	136	138	147	155	168	189	205	0	0	0	0	0	0
0	0	79	114	121	125	129	134	136	138	150	155	177	0	0	0	0	0	0	0	0	0
0	0	56	103	106	110	113	124	138	143	153	169	176	181	0	0	0	0	0	0	0	0
0	0	70	104	114	130	144	148	150	155	160	175	187	195	215	237	0	0	0	0	0	0
0	0	5	75	105	130	136	149	153	156	170	175	195	204	206	224	0	0	0	0	0	0
0	0	79	87	115	130	139	148	151	155	164	168	177	192	210	218	0	0	0	0	0	0
0	0	108	120	135	147	154	156	160	164	167	173	183									



VES	CR	DATE	HR	O	LAT	LN	N	BT	SS	ST	ML	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8					
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0	39	3306712006			4015515	52267525267	90					0	0	0	96	140	148	151	152	154	160	168	179	183	185	199	220	0	0	0	0	0	0					
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0	39	4016724006			4455529	54267531268105						0	0	0	124	127	155	157	164	168	177	182	193	195	199	204	210	230	0	0	0	0	0					
0	39	40267	4006		5535543	55268530272	62					0	0	40	94	129	140	159	163	170	175	180	185	192	197	203	213	0	0	0	0	0	0					
0	39	40267	8006		5325600	56271521273	31					0	0	36	95	149	153	161	167	174	178	193	197	202	209	218	227	244	0	0	0	0	0					
0	39	4046712006			5565632	57278529276	80					0	0	117	139	145	152	161	170	177	180	190	196															
0	39	4046716006			6195711	58283540280105						0	0	129	144	159	165	172	179	0	0	0	0															
0	39	4046720006			6335748	59277551277	92					0	0	97	115	126	140	147	165	178	0	0	0															
0	39	4046724006			6515811	60277556279115						0	0	128	140	147	154	165	174	185	190	198	202	213	0	0	0	0	0	0	0	0	0	0				
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0	39	40867	4006		13206920	79285461287	81					0	98	119	128	145	165	188	211	224	242	0	0															
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0	39	4126716006			13227040	81289436288	74					0	92	105	115	133	148	159	185	200	225	0	0															
0	39	4126720006			12527045	82289429289	55					0	77	103	125	135	150	168	193	215	0	0	0															
0	39	4126724006			12137053	83288432289	70					0	92	108	120	135	155	182	198	210	225	0	0															
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0	39	4136724006			10047158	86289429291	88					15	99	110	135	165	184	204	0	0	0	0	0															
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0	39	41467	8006		9027250	88289472290110						0	127	138	160	177	188	193	204	0	0	0	0															
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0	39	4146720006			7147331	90286529289	70					0	110	140	163	175	188	202	218	223	233	0	0															
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0	39	4156720006			3317507	96285571289	72					0	85	141	173	189	195	201	204	206	209	212	216	223	225	0	0	0	0	0	0	0	0	0	0			
0	39	4156724006			2507512	97280554280120						0	0	122	147	184	192	198	202	204	209	213	219	224	234	0	0	0	0	0	0	0	0	0	0			
0	39	41667	4006		2007510	98276547278	80					0	0	90	155	180	192	198	201	204	205	208	218	222	227	0	0	0	0	0	0	0	0	0	0			
0	39	41667	8006		1377518	99278549275115						0	0	104	135	192	194	199	204	216	218	221	224	234	236	240	245	251	0	0	0	0	0	0				
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VES	CR	DATE	HR	U	LAT	LON	N	BT	SS	ST	ML	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8					
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0	39	4176716001			217644105286515277151							0	0	24	155	167	171	174	177	195	198	206	212	223	228	0	0	0	0	0	0	0	0	0				
0	39	4176720006			137650106278522278136							0	0	20	124	155	168	174	182	194	197	199	205	212	216	220	0	0	0	0	0	0	0	0	0			
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0	39	41867	4006		1207657108273522274					95		0	0	105	150	161	167	170	180	187	200	205	214	219	228	234	0	0	0	0	0	0	0	0	0			
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0	39	4186720006			1117819112277513276					90		0	0	119	151	160	166	173	192	193	195	207	210	221	233	248	0	0	0	0	0	0	0	0	0	0		
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0	39	41967	4006		127706114272521272					85		0	0	88	145	167	174	183	189	192	204	208	213	243	246	0	0	0	0	0	0	0	0	0	0	0	0	
0	39	41967	8006		307725115271519271					75		0	0	30	125	153	160	167	176	180	0	0	0															
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0	39	4196716006			287830117279518274					77		0	0	81	135	158	166	170	172	180	199	206	210	215	0	0	0	0	0	0	0	0	0	0	0	0	0	
0	39	4196720006			107805118278517275					63		0	0	66	142	165	169	175	179	187	193	206	210	215	217	235	247	0	0	0	0	0	0	0	0	0		
0	39	4196724001			87732119272518272156							0	0	40	160	176	179	181	182	185	190	200	210	217	224	234	0	0	0	0	0	0	0	0	0	0		
0	39	42067	4001		307732120272517272150							0	0	25	155	173	176	183	184	185	192	208	210	213	219	225	235	261	0	0	0	0	0	0	0	0		
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0	39	4206716001			337814123277513275110							0	0	40	134	162	170	175	181	188	192	0	0															
0	39	4206720001			547800124277509276140							0	0	45	149	160	171	177	185	188	189	191	200	207	212	217	221	0	0	0	0	0	0	0	0	0		
0	39	4206724001			1157726125277505278					25		0	0	43	152	175	184	191	197	201	204	206	207	211	220	224	226	0	0	0	0	0	0	0	0	0		
0	39	42167	4001		1357650126277504278					40		0	0	55	145	158	162	167	179	182	184	187	190	191	194	195	204	213	239	0	0	0	0	0	0	0		
0	39	42167	8001		1357720127275505277140							0	0	60	158	170	174	180	189	193	197	199	202	208	211	214	0	0	0	0	0	0	0	0	0	0	0	
0	39	4216712001			1307833128278508278					46		0	0	63	156	165	175	180	189	192	0	0	0															
0	39	4216716001			1267835129279508276140							0	0	65	145	160	170	180	186	192	194	198	203	206	208	210	212	218	244	0	0	0	0	0	0	0		
0	39	4216720001			387750130277728278130							0	0	55	157	165	170	178	180	188	193	195	200	201	207	210	214	229	241	0	0	0	0	0	0	0	0	
0	39	4216724001			1107725131277508276					45		0	0	60	145	168	172	183	190	192	195	198	203	208	212	224	227	240	0	0	0	0	0	0	0	0	0	
0	39	4226712001			1007641132282508277145							0	0	55	150	162	170	179	183	191	199	201	204	208	215	220	236	249	0	0	0	0	0	0	0	0	0	
0	39	4226716001			1387622133281506280					65		0	0	82	140	147	151	162	174	177	184	192	194	202	203	208	220	0	0	0	0	0	0	0	0	0	0	
0	39	4226720001			1567605134281509282					55		0	50	120	149	156	160	166	173	176	182	183	187	194	199	205	209	214	225	0	0	0	0	0	0	0	0	
0	39	4226724001			2287529135281511283					40		0	45	140	155	160	165	167	174	178	179	185	187	189	198	203	205	209	217	223	264	0	0	0	0	0		
0	39	42367	4001		2587506136279506283					60		0	60	135	150	157	160	162	164	165	168	171	175	178	184	188	194	199	203	214	230	0	0	0	0	0		
0	39	42367	8001		3287436137283495285					65		0	78	107	137	148	150	155	163	165	167	168	170	177	179	185	192	197	210	0	0	0	0	0	0	0	0	
0	39	4236712001			3527414138284485287					65		0	80	103	125	130	133	135	138	142	150	154	162	165	167	171	182	192	200	210	0	0	0	0	0	0	0	
0	39	4236714001			4017405139289484290101							0	111	125	137	141	150	152	155	156	158	164	167	170	174	175	182	187	200	224	0	0	0	0	0	0	0	
0	39	4236716001			4167344140289479288					57		0	92	127	136	144	147	150	153	157	159	160	161	164	170	174	180	186	199	220	248	0	0	0	0	0	0	
0	39	4236718001			4307331141284475286					60		0	70	115	131	138	141	142	143	145	149	151	158	167	178	187	199	207	212	0	0	0	0	0	0	0		
0	39	4236720001			4407324142285473286					80		0	82	127	132	136	138	142	147	150	158	163	167	177	184	190	195	200	212	227	0	0	0	0	0	0	0	
0	39	4236722001			4497316143286471287					65		0	85	103	108	124	130	131	135	140	144	149	152	157	164	171	179	187	200	222	0	0	0	0	0	0	0	
0	39	4236724001			5087259144285467287					67		0	80	105	110	117	123	127	133	135	140	145	150	157	160	163	167	185	200	217	242	0	0	0	0	0	0	
0	39	42467	2001		5227246145286469286					65		0	80	110	118	125	127	130	140	148	161	163	165	168	169	174	178	192	197	211	240	0	0	0	0	0	0	
0	39	42467	4001		5357233146287486287</																																	



VES	CR	DATE	HR	U	LAT	LONG	N	BT	SS	ST	ML	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
0	39	4246714001			4237235151289486288						65	0	80	105	120	125	127	134	138	140	152	155	158	165	174	177	179	185	195	207	0	0	0
0	39	4246716001			4387223152288494288						75	0	100	120	127	132	134	138	140	149	155	158	160	164	170	177	179	183	194	224	240	0	0
0	39	4246720001			5137208153286489286						75	0	90	104	110	115	123	132	137	143	145	149	154	158	163	168	175	183	196	213	0	0	0
0	39	4246724001			5457120154285488285						90	0	93	120	123	134	137	138	140	145	150	152	159	160	162	166	173	182	199	219	257	0	0
0	39	42567 8001			6267118155284468285						75	0	83	96	105	112	118	124	133	135	137	142	145	151	162	165	170	180	194	210	0	0	0
0	39	4256712001			6577050156283456283						80	0	83	89	95	99	104	115	121	127	133	143	151	158	166	170	175	178	187	212	0	0	0
0	39	4256716001			7237025157282456282						71	0	70	92	97	102	112	118	120	125	129	132	137	142	147	150	151	157	174	0	0	0	0
0	39	4256720001			7536957158280448279						40	0	0	75	87	93	99	105	108	113	117	119	123	125	139	143	150	153	159	172	0	0	0
0	39	42667 8001			9126850159278419273						50	0	0	54	82	89	95	100	108	113	120	124	130	136	144	148	155	172	182	0	0	0	0
0	39	4266712001			9256842160275453275						60	0	0	64	94	98	108	112	116	120	122	125	127	131	134	144	155	159	173	206	0	0	0
0	39	4266716001			9566814161279452280						65	0	0	88	92	100	105	109	115	118	125	130	134	137	145	155	165	170	174	205	0	0	0
0	39	4266720001			10276747162278471278						70	0	0	84	99	102	104	110	115	118	122	125	130	135	138	151	161	167	183	0	0	0	0
0	39	4266724001			110546730163277454277						88	0	0	91	107	109	111	118	125	128	135	137	144	152	159	168	174	187	194	213	0	0	0
0	39	42767 4001			111256700164276445273						76	0	0	91	109	116	118	124	127	131	135	140	145	150	154	160	168	175	182	0	0	0	0
0	39	42767 8001			111286701165275436272						72	0	0	73	90	102	107	111	116	128	132	147	150	152	156	166	170	181	0	0	0	0	0
0	39	4276712001			112006631166273446273						74	0	0	75	103	114	119	124	126	133	137	142	148	152	159	164	175	183	194	0	0	0	0
0	39	4276716001			112306603157274450275						75	0	0	75	100	122	127	132	137	142	151	155	160	166	175	182	188	207	0	0	0	0	0
0	39	4276720001			112596532168271451272						65	0	0	61	85	110	115	120	130	133	148	153	162	171	177	184	188	0	0	0	0	0	0
0	39	4276724001			113196513169269435268						86	0	0	0	92	110	121	123	130	134	147	150	158	163	166	171	182	194	203	0	0	0	0
0	39	42867 4001			113496443170269437269						56	0	0	0	75	93	99	105	118	126	147	152	158	167	174	191	203	212	0	0	0	0	0















USS *Albatross*  
(YAG-30)

CRUISE (YAG-30) DECK

CODED BY L.K.

Standard Form 1164

										ms.	day	year	hour	min.	sec.	lat.	long.	BT#	Bath. temp.	surf. sal.	Temp. cond.	Depth line	29"	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1																													
04										10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
04										10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
										16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80						
										17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80							
										18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80								
										19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80									
										20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80										

Punched and Verified  
By Date







