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No. 139

Oceanographic Data Record

Ocean Weather Station "P"

January 17 to August 5, 1962

by

S. Tabata, C. D. McAllister,
J. H. Meikle, H. J. Hollister

Pacific Oceanographic Group
Nanaimo, B.C.

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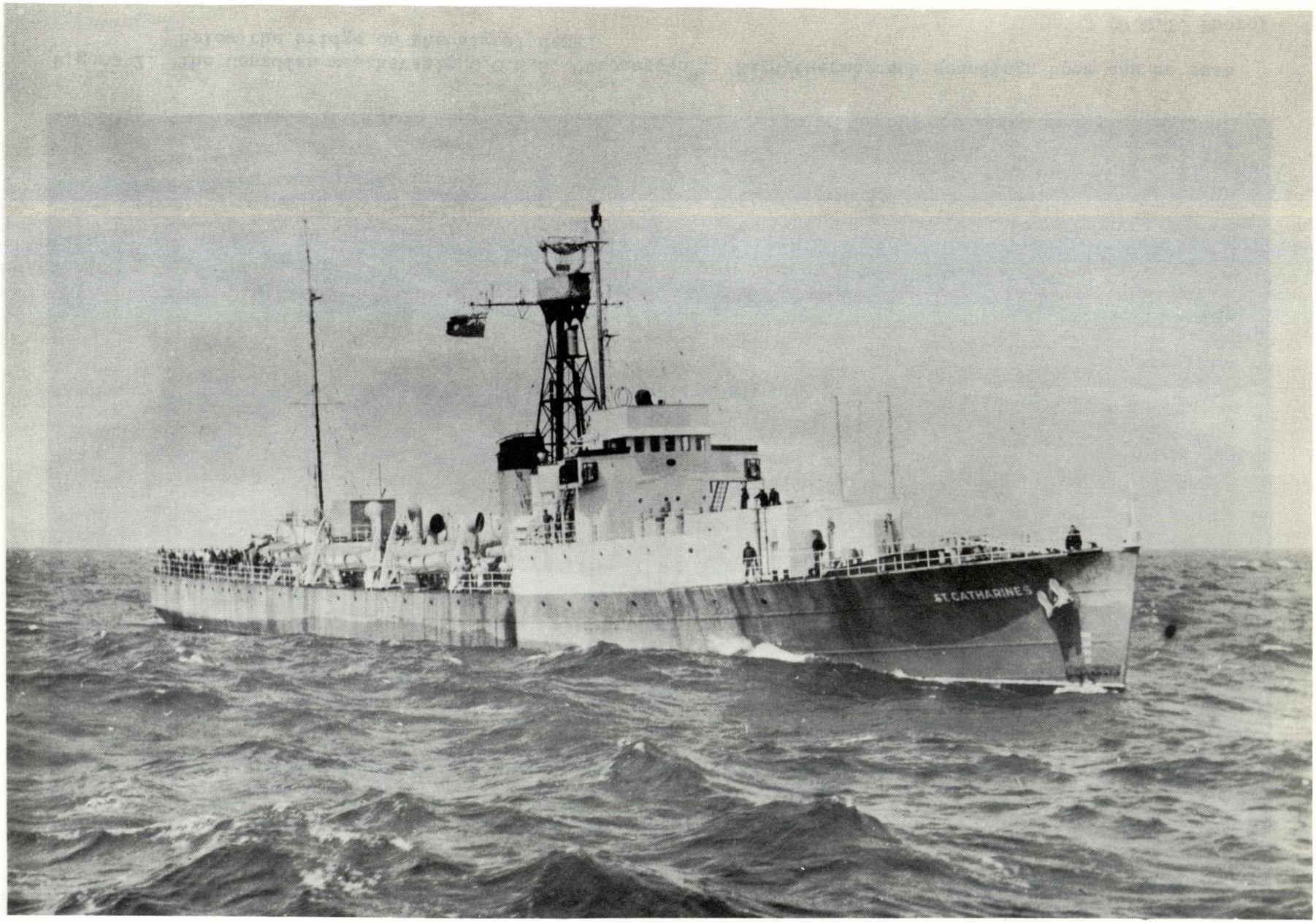

Figure 1. The Canadian weathership C.C.G.S. "St. Catharines". The oceanographic winch is located on the starboard side of the signal deck, just aft of the bridge wing.

(D.O.T. Photo)

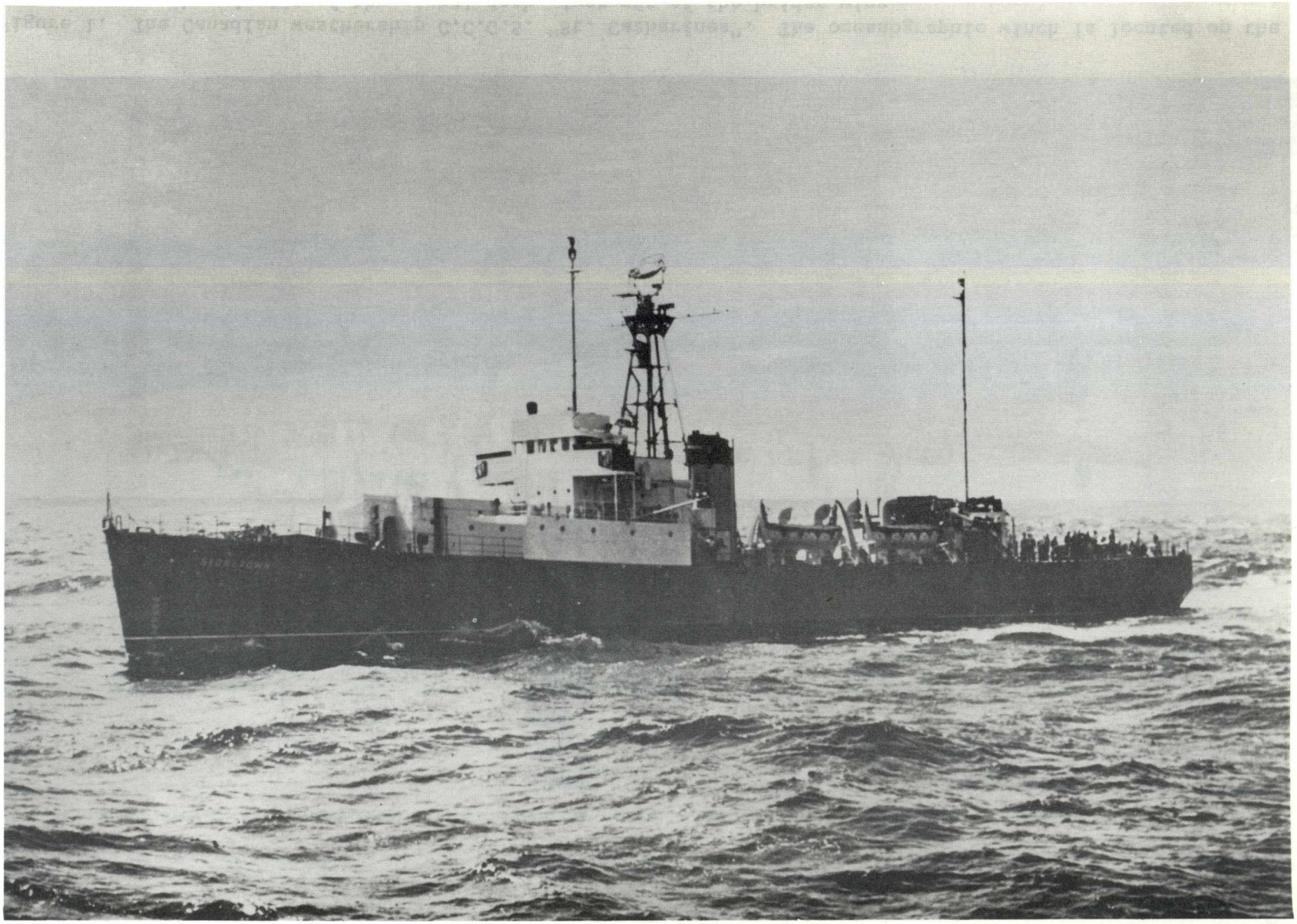

Figure 2. The Canadian weathership C.C.G.S. "Stonetown". Bathythermograph soundings boom can be seen below the bridge on the signal deck.

(D.O.T. Photo)

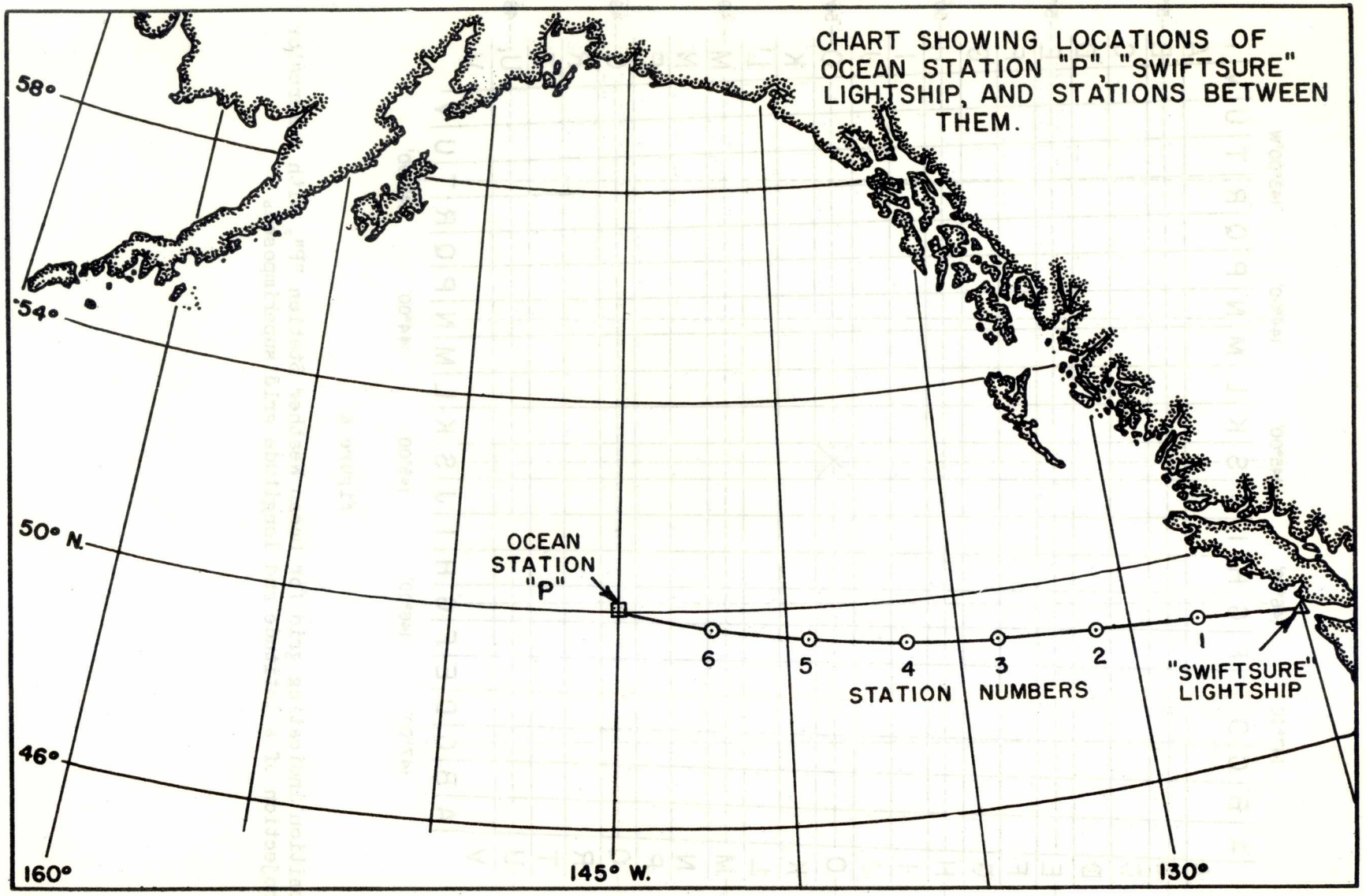
CHART SHOWING LOCATIONS OF OCEAN STATION "P", "SWIFTSURE" LIGHTSHIP, AND STATIONS BETWEEN THEM.
58°
54°
50° N.
46°
160°
145° W.
130°
OCEAN STATION "P"
6
5
4
3
2
1
STATION NUMBERS
"SWIFTSURE" LIGHTSHIP

Figure 3

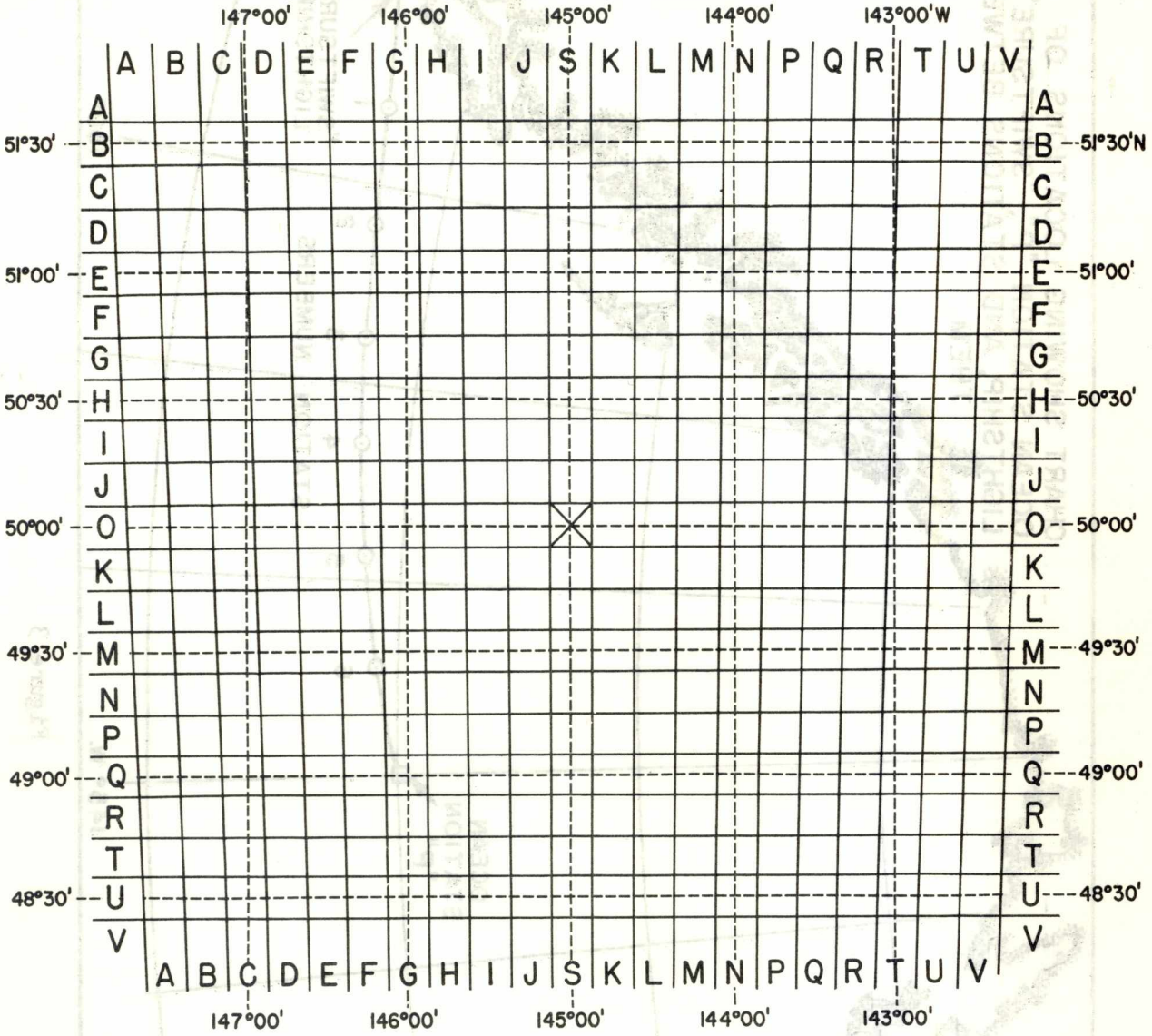

Figure 4

Position indicating grid for Ocean Weather Station "P", with a mercator projection of a latitude and longitude grid superimposed.

Oceanographic Data Record, Ocean Weather Station "P", January 17 to August 5, 1962

by

S. Tabata, C.D. McAllister, J.H. Meikle,
and H.J. Hollister

Introduction

Canadian operation of Ocean Weather Station "P" (latitude 50° 00'N, longitude 145° 00'W) was inaugurated in December 1950. The Station is manned by two vessels of the Canadian naval frigate class operated by the Marine Services of the Department of Transport. They are the C.C.G.S. "St. Catharines" and the C.C.G.S. "Stonetown" (Fig. 1 and 2) (Atlantic Oceanographic Group, MS, 1961). Each ship remains on station for a period of 6 weeks, and is then relieved by the other ship, thus maintaining a continuous watch. The chief purpose of the Station is to maintain a meteorological station for surface and upper-air observations.

Since July 1952, bathythermograph observations have been made at Station "P" by the Pacific Oceanographic Group (Hollister, MS, 1956). A program of more extensive oceanographic observations on board C.C.G.S. "St. Catharines" was commenced in August 1956. This was further extended in April 1959 by the addition of a series of oceanographic stations along the route to and from Station "P" and Swiftsure Bank (Fig. 3). These stations are also observed during other surveys, and are identified in the data records of these surveys as "Line P" stations.

Program of observations, C.C.G.S. "St. Catharines"

The C.C.G.S. "St. Catharines" is equipped with deck and laboratory facilities required to make oceanographic observations. One oceanographer (sometimes two) from the Pacific Oceanographic Group accompanies the ship on each patrol.

Enroute to and returning from the Station, six oceanographic stations (Fig. 3) are observed, with serial observations of temperature and salinity to 2000 m, and BT casts to 270 m. BT casts to 270 m are also obtained between stations at each 40' of longitude, i.e. 127° 40'W, 129° 40'W, etc. At Station "P", a shallow oceanographic station to 400 m is observed weekly. An intermediate depth oceanographic station to 2000 m is observed weekly, generally 4 days after the shallow station. At least 3 times during the survey, a deep cast from 2000 to 4200 m is observed within 2 days of an intermediate station. Serial observations of temperature, salinity and dissolved oxygen are made at all stations, and dissolved inorganic silicate observations are made at the intermediate and deep stations.

Twice-daily BT casts are made on Station at 0200 and 1700 G.M.T. A surface water sample for salinity determination is collected at the 0200 cast. Special series of BT casts to 135 m depth are made in the morning at frequent intervals

during the patrol, for the purpose of providing ocean temperature information to the Canadian Oceanographic Information Service at Esquimalt (Giovando, MS, 1962).

Vertical zooplankton hauls from 150 m depth are made daily on Station, and from 1200 m twice during the patrol. Horizontal tows for collection of zooplankton are made at the beginning, middle and end of each patrol. Ocean productivity measurements of photosynthesis rate (C_{14} method), plant pigment concentration, and light extinction are made at frequent intervals during the patrol.

Program of observations, C.C.G.S. "Stonetown"

The C.C.G.S. "Stonetown" makes BT casts to 270 m at each 40' of longitude enroute to and returning from Station "P". On Station, BT casts are made twice-daily: to 135 m at 0200 (or 0100) and to 270 m at 1700 (or 1630) G.M.T. A surface salinity sample is collected at the 0100 observation. Special series of BT observations are occasionally made during a patrol.

BT casts to 135 m are made in the morning of every third day to provide information to the Canadian Oceanographic Information Service (Giovando, MS, 1962). The ship is stopped during these observations.

Observational Procedures, Surveys P-62-1 and P-62-2

Oceanographic stations:

1. Serial observations were made at depths of 10, 30, 50, 75, 100, 125, 150, 175, 200, 250, 300, 400, 500, 750, 1000, 1250, 1500, 2000, 2500, 3000, 3500, 4000, and 4200 metres, depending on the type of station observed. During survey P-62-2, observations at 20 m were added. The shallow stations to 400 m were observed in one cast. The intermediate depth stations to 2000 m were observed in 2 casts: the first to 300 m, the second from 400 to 2000 m, 35 minutes later. The occasional deep cast section had observations in the interval 2000 to 4200 m.

2. Surface samples (0 metres) for salinity, dissolved oxygen and silicate determinations were obtained with a one-gallon bucket made of "Uscolite CP", a corrosion-resistant thermoplastic material. The surface temperature was measured in this bucket sample with an armoured thermometer graduated in 0.5 C° intervals.

3. Samples at depth were obtained with Nansen reversing water samplers. From each sampler, the first aliquot was drawn into a 300 ml B.O.D. bottle for dissolved oxygen analyses. Then, a sample for salinity analyses was drawn into an 8-oz glass medicine bottle. This was sealed with a wax-impregnated cork, and later the top was dipped in melted paraffin wax and the bottles stored in wooden cases for return to the base laboratory for analysis. A third aliquot was then drawn into a 50 ml polyethylene bottle for the silicate analysis. This analysis, as well as that for dissolved oxygen, was done in the shipboard laboratory.

4. Temperatures at depth were measured by protected deep-sea reversing thermometers of German (Richter & Wiese) or Japanese (Yoshino Keiki Co.) manufacture.

Survey P-62-1: In the 400-metre shallow stations and the first casts (to 300 m) of the intermediate stations, samplers at alternate depths were equipped with two protected thermometers each (i.e. 10, 50, 100, 150, 200, 300 and 400 m). The 400-metre sampler was also equipped with an unprotected reversing thermometer. All samplers from 500 m to 4200 m were equipped with 2 protected and one unprotected thermometers.

Survey P-62-2: In the 400-metre shallow stations and the first casts (to 300 m) of the intermediate stations, 2 protected thermometers were used at depths of 10, 20, 30, 75, 150, 300 and 400 m, and one protected thermometer at the remaining depths of this interval. The 300-metre and 400-metre samplers were also equipped with an unprotected thermometer each. All samplers from 500 m to 4200 m, with the exception of that at 750 m, were equipped with 2 protected and one unprotected thermometers. The 750-metre sampler did not hold an unprotected thermometer.

5. Secchi disc readings with a white 30 cm diameter disc were taken during daylight hours.

6. Position measurements and weather observations were made at each oceanographic station.

Methods of analyses:

The salinity analyses were made in the base laboratory at Nanaimo, B.C., using a conductivity salinometer (Strickland, MS, 1958). On board ship, the dissolved oxygen analyses were done by a modified Winkler method, and the silicates by the method of Mullin and Riley. Laboratory techniques and methods were those described by Strickland and Parsons (1960).

Bathythermograph observations:

A BT cast to 270 m was made at each oceanographic station soon after the completion of the station work. Between-station casts to 270 m were made enroute to and from the Station. Twice-daily BT casts were made on Station: to 135 m at 0200 and to 270 m at 1700 G.M.T. Surface bucket temperatures were observed at each cast. In survey P-62-1, a series of BT observations to 135 m, consisting of groups of 8 casts at 15-minute intervals, commencing at 1800 G.M.T. were made on 5 days during the period March 25 to April 11. A similar 8-cast series was observed every second day at 1830 G.M.T. in survey P-62-2, but at 10-minute intervals between casts. These BT observations were used by the officers of the watch to send ocean temperature information to the Canadian Oceanographic Information Center in the OCEAN code (Giovando, MS, 1962). The ship is generally stopped during these observations.

Plankton collections:

Zooplankton hauls were made with a one-half metre diameter nylon net of mesh size 0.33 mm. Vertical hauls from 150 m depth to the surface were made every second day, and from 1250 m depth to the surface three times during the survey, at the beginning, middle and end. Surface horizontal tows of 10 minutes duration at 2 knots were made on three consecutive evenings, three times during the survey, at the beginning, middle and end. The samples were returned to the Biological Station, Nanaimo, B.C., for later examination.

Productivity measurements:

At the beginning, middle and end of each survey, casts were made with 5-litre Van Dorn samplers at depths of 0, 10, 20, 30 and 50 m to collect samples for measurement of the photosynthetic rate by the carbon-14 method, and for the determination of phytoplankton pigments. Methods of analyses used were those described by Strickland and Parsons (1960) and Strickland (1960).

Miscellaneous observations:

Surface salinity samples were taken at "between-station" BT casts enroute to and from Station "P", and at 0200 G.M.T. daily while the ship was on Station.

Observations of marine mammals and birds were made during each watch by the officers of both ships. The mammal reports were returned to Mr. Gordon Pike at the Nanaimo Biological Station, and the bird reports were sent to the Curator of the Provincial Museum in Victoria, B.C.

A 5-litre water sample for radioactivity measurement was collected during each survey. This was forwarded to the Scripps Institution of Oceanography.

Personnel

Mr. Susumu Tabata was in charge of the Ocean Weather Station "P" oceanographic program until March 10, 1962. He supervised the organization of the surveys and the analyses of the data.

Oceanographers who sailed on the C.C.G.S. "St. Catharines" were:

Survey P-62-1	February 27-April 16	J.H. Meikle
Survey P-62-2	May 22-July 2	(C.D. McAllister
		(L.A. Rudge

The bathythermograph observations were made by the ships' crews, supervised by the officers of the watch. Members of the crew of the C.C.G.S. "St. Catharines" assisted in the oceanographic station work, operating the winch and handling the gear. Oceanographic station positions were determined by the officers of the watch. The C.C.G.S. "St. Catharines" was under the command of Captain J.A. Sleight. Captain J. Linggard commanded C.C.G.S. "Stonetown" during Patrol Nos. 50 and 51, whilst Captain F.G. Nesbit was in command during Patrol No. 52.

The following persons, as well as those mentioned above, were engaged in the data computations and the preparation of the data record:

H.J. Hollister: editing and supervision of data record preparation
M.C. Cairns (Miss): preparation of computer tapes, typing
W. Atkinson: drawing bathythermograms from "Stonetown" Patrols Nos. 50, 51, 52, Surveys P-62-1, P-62-2
W.R. Harling: drawing bathythermograms in the OCEAN series from "Stonetown" Patrol No. 50, Survey P-62-1.
N.M. Shah: drawing bathythermograms in Patrol No. 51 OCEAN series.

Description of the Data Record

This report presents tabulations of observed and interpolated oceanographic station data and subsequent computations, reproductions of bathythermograms, and daily surface salinity data. It is arranged as follows:

Section I - Oceanographic stations
Observed and interpolated data

Section II - Bathythermograms of the oceanographic program

Section III - Bathythermograms in the OCEAN series

Section IV - Surface salinity data

Section I - Oceanographic stations

The station data are arranged in a chronological order in each survey group. Stations numbered 1 to 6 are those taken during trips to and from Station "P", and are repeated in each survey group, when observed. Their usual positions are indicated in Figure 3. Stations taken in the Ocean Weather Station "P" grid (Fig. 4) are identified by a 3-digit number where the hundreds digit indicates the survey number and the other two indicate the consecutive station number in the survey.

Each station page was transcribed directly from the computations output tape produced by the ALWAC III-E computer. Each page lists the associated meteorological data and the observed and interpolated oceanographic station data. Computations based on the temperature and salinity at observed depths were done by the ALWAC III-E digital computer at the Computing Centre of the University of British Columbia. Methods of computation are described by Froese (MS, 1960).

Temperature data: Protected thermometers were read twice. The reported temperature data are the accepted means of the readings from either one or two thermometers. It has been found useful to indicate by a classification index, the precision of the temperature observations as determined by the difference between readings and the number of thermometers at any one depth. The classification indices are noted in the data record as postscripts to the observed depth tabulations. The classification system is described as follows:

Class a: In a pair of thermometers, T_1 (the mean of two readings of one of the thermometers) differs from T_2 (the mean of two readings from the other thermometer) by less than or equal to 0.035 C°:

$$T_1 - T_2 \leq 0.035 \text{ C°}$$

Class b: In a pair of thermometers, T_1 differs from T_2 by more than 0.035 C° but less than or equal to 0.065 C°:

$$0.035 \text{ C°} < (T_1 - T_2) \leq 0.065 \text{ C°}$$

Class c: In a pair of thermometers, T_1 differs from T_2 by more than 0.065 C°:

$$T_1 - T_2 > 0.065 \text{ C°}:$$

or the readings from one of the pair are rejected because of obvious malfunction; or only one protected reversing thermometer was used at that depth.

Surface temperatures are read to 0.1 C° but are reported to two decimal places to facilitate machine computation.

Salinity data: Salinity values are the means of duplicate determinations. The correct value lies in the range of ±0.004 ‰ at the 95% probability level (Strickland, MS, 1958).

Dissolved oxygen data: These are from a single determination, except those samples from depths greater than 2000 m which are from duplicates. The correct value lies in the range ±0.003 milligram-atoms per litre (mg-at/l) (Strickland and Parsons, 1960). When no determination was made, a 000 filler is inserted for machine computation purposes.

Dissolved silicate data: These are from a single determination. The limits of accuracy are ±2.5 μg-at/l (Strickland and Parsons, 1960).

Section II - Bathythermograms of the oceanographic program

The BT traces have been drawn on standard pre-printed graphs resembling BT calibration grids of several depth ranges. The slides were positioned on the appropriate calibration grid in an adjustable holder and displayed in a reflecting-type projector.

Traces obtained at all oceanographic stations, and those obtained in the regular twice-daily series by both ships, are aligned on the grid using a surface temperature value obtained from a thermograph recording of the engine-room intake temperature. The top of the trace was always aligned with the zero depth grid line.

The bathythermograms are arranged in ship-name groups in order of observation. Two depth ranges of BT's were used. The shallower range bathythermograms are presented first in each ship's group, and they are arranged on the page in a chronological order. The time/date information and the location are noted

below each bathythermogram. The locations of BT observations taken in the Station "P" grid (Fig. 4) are indicated by the grid letter designator group. It is assumed that the ship is positioned in the center of the grid square. Bathythermograms taken at an oceanographic station are further identified by the station number.

Special series of BT observations are listed below:

Stonetown Patrol No. 52

July 1 - 9, continuous hourly casts to 135 m.
July 14 - 17, continuous hourly casts to 135 m.

Section III - Bathythermograms in the OCEAN series

BT traces obtained from both ships in the OCEAN series were processed in the same manner as those for the oceanographic program, except for Patrol No. 50. These traces were drawn on Fahrenheit - Feet scales, and were aligned on the calibration grid using surface temperature values read from the trace when it was placed in the usual magnifying viewer. This is the T_s value described by Giovando (MS, 1962). The bathythermograms are arranged in groups of 8 in a chronological order. The time/dates of the first and last slides in each group and the Station "P" grid position of the last slide are recorded.

Section IV - Surface salinity data

These are presented in a table listing the date, position and salinity values. Those samples obtained on board the "Stonetown" have been analysed by a single determination on the conductivity salinometer, and are considered to have an accuracy of ±0.009 ‰ . The samples obtained on board "St. Catharines" were analysed by duplicate determinations and have an accuracy of ±0.004 ‰ (Strickland, MS, 1958).

Plankton collection data and productivity measurements will be reported at a later date.

References

Atlantic Oceanographic Group. MS, 1961. Canadian oceanographic research ships, 1961. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 90, 36 pp.

Froese, C. MS, 1958. Report on the calculation of sound velocity in sea water. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 26, 13 pp.

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Giovando, L.F. MS, 1962. The OCEAN system of assessment of bathythermograms. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 105, 58 pp.

Hollister, H.J. MS, 1956. The program of bathythermograph observations at the Canadian Ocean Weather Station "PAPA". Fisheries Research Board of Canada, Pacific Oceanographic Group, 17 pp.

Strickland, J.D.H. MS, 1958. Standard methods of seawater analyses. Volume II. Fish. Res. Bd. Canada, MS Rept. Oceanogr. and Limnol., No. 19, 78 pp.

Strickland, J.D.H. 1960. Measuring the production of marine phytoplankton. Bull. Fish. Res. Bd. Canada, No. 122, 172 pp.

Strickland, J.D.H., and T.R. Parsons. 1960. A manual of seawater analysis. Bull. Fish. Res. Bd. Canada, No. 125, 185 pp.

Errata Notes

The following listed errata have been noted in earlier Ocean Station "P" data records:

MS Report No. 59: p. 26, Station 5, observed depths 936 and 980 m are in reversed order, the observed data is questionable and should be deleted; the interpolated data for 800 m should be deleted.

p. 50, Station 3, date should be 9-vii-59.
p. 79, Station 401, interpolated depth 4896 should be 0800.

MS Report No. 98: p. 145, Station 315, 49 m temperature value should be 7.34°; delete associated computed values in observed and interpolated data sections.

MS Report No. 106: pp. 112, 113, Station 313, 916 m salinity is questionable; station has been re-computed, new pages are attached.

MS Report No. 125: p. 21, Station 4A, 1500 m temperature should be 2.36°; delete associated computed observed and interpolated data.

pp. 24, 25, Station 401, salinity values for deep cast depths 1999 to 4200 m appear to be 0.03 ‰ too low; the data in this depth interval should be deleted from this station.

p. 35, Station 409, 250 m salinity is wrong, and the 1246 m temperature should be 2.50°; delete associated computed observed and interpolated data.

p. 79, Station 4, 1465 m salinity is questionable; delete associated computed observed and interpolated data.

MS Report No. 14: p. 176, Station 1-03, 495 m phosphate value should be 3.18.

TABLE I NUMERICAL WEATHER CODES—PRESENT WEATHER

00 Cloud development NOT observed or NOT observable during past hour.	**01** Clouds generally dissolving or becoming less developed during past hour.	**02** State of sky on the whole unchanged during past hour.	**03** Clouds generally forming or developing during past hour.	**04** Visibility reduced by smoke.	**05** Haze.	**06** Widespread dust in suspension in the air, NOT raised by wind, at time of observation.	**07** Dust or sand raised by wind, at time of observation.	**08** Well developed dust devil(s) within past hour.	**09** Duststorm or sandstorm within sight of or at station during past hour.
10 Light fog.	**11** Patches of shallow fog at station, NOT deeper than 6 feet on land.	**12** More or less continuous shallow fog at station, NOT deeper than 6 feet on land.	**13** Lightning visible, no thunder heard.	**14** Precipitation within sight, but NOT reaching the ground.	**15** Precipitation within sight, reaching the ground, but distant from station.	**16** Precipitation within sight, reaching the ground, near to but NDT at station.	**17** Thunder heard, but no precipitation at the station.	**18** Squall(s) within sight during past hour.	**19** Funnel cloud(s) within sight during past hour.
20 Drizzle (NOT freezing and NOT falling as showers) during past hour, but NOT at time of ob.	**21** Rain (NOT freezing and NOT falling as showers) during past hour, but NOT at time of ob.	**22** Snow (NOT falling as showers) during past hour, but NOT at time of observation.	**23** Rain and snow (NOT falling as showers) during past hour, but NOT at time of observation.	**24** Freezing drizzle or freezing rain (NOT falling as showers) during past hour, but NOT at time of observation.	**25** Showers of rain during past hour, but NOT at time of observation.	**26** Showers of snow, or of rain and snow, during past hour, but NOT at time of observation.	**27** Showers of hail, or of hail and rain, during past hour, but NOT at time of observation.	**28** Fog during past hour, but NOT at time of observation.	**29** Thunderstorm (with or without precipitation) during past hour, but NOT at time of observation.
30 Slight or moderate duststorm or sandstorm has decreased during past hour.	**31** Slight or moderate duststorm or sandstorm no appreciable change during past hour.	**32** Slight or moderate duststorm or sandstorm has increased during past hour.	**33** Severe duststorm or sandstorm, has decreased during past hour.	**34** Severe duststorm or sandstorm, no appreciable change during past hour.	**35** Severe duststorm or sandstorm, has increased during past hour.	**36** Slight or moderate drifting snow, generally low.	**37** Heavy drifting snow, generally low.	**38** Slight or moderate drifting snow, generally high.	**39** Heavy drifting snow, generally high.
40 Fog at distance at time of observation, but NOT at station during past hour.	**41** Fog in patches.	**42** Fog, sky discernible, has become thinner during past hour.	**43** Fog, sky NOT discernible, has become thinner during past hour.	**44** Fog, sky discernible, no appreciable change during past hour.	**45** Fog, sky NOT discernible no appreciable change during past hour.	**46** Fog, sky discernible, has begun or become thicker during past hour.	**47** Fog, sky NOT discernible, has begun or become thicker during past hour.	**48** Fog, depositing rime, sky discernible.	**49** Fog, depositing rime, sky not discernible.
50 Intermittent drizzle (NOT freezing) slight at time of observation.	**51** Continuous drizzle (NOT freezing) slight at time of observation.	**52** Intermittent drizzle (NOT freezing) moderate at time of ob.	**53** Continuous drizzle (NOT freezing), moderate at time of ob.	**54** Intermittent drizzle (NOT freezing), thick at time of observation.	**55** Continuous drizzle (NOT freezing), thick at time of observation.	**56** Slight freezing drizzle.	**57** Moderate or thick freezing drizzle.	**58** Drizzle and rain, slight.	**59** Drizzle and rain, moderate or heavy.
60 Intermittent rain (NOT freezing), slight at time of observation.	**61** Continuous rain (NOT freezing), slight at time of observation.	**62** Intermittent rain (NOT freezing), moderate et time of ob.	**63** Continuous rain (NOT freezing), moderate at time of observation.	**64** Intermittent rain (NOT freezing), heavy at time of observetion.	**65** Continuous rain (NOT freezing), heavy at time of observation.	**66** Slight freezing rain.	**67** Moderate or heavy freezing rain.	**68** Rain or drizzle and snow, slight.	**69** Rain or drizzle and snow, moderate or heavy.
70 Intermittent fall of snowflakes, slight at time of observetion.	**71** Continuous fall of snowflakes, slight at time of observation.	**72** Intermittent fall of snowflakes, moderate at time of observation.	**73** Continuous fall of snowflakes, moderate at time of observation.	**74** Intermittent fall of snowflakes, heavy at time of observetion.	**75** Continuous fall of snowflakes, heavy at time of observation.	**76** Ice needles (with or without fog).	**77** Granular snow (with or without fog).	**78** Isolated starlike snow crystals (with or without fog).	**79** Ice pellets (sleet, U.S. definition).
80 Slight rain shower(s).	**81** Moderate or heavy rain shower(s).	**82** Violent rain shower(s).	**83** Slight shower(s) of rain and snow mixed.	**84** Moderate or heavy shower(s) of rain and snow mixed.	**85** Slight snow shower(s).	**86** Moderate or heavy snow shower(s).	**87** Slight shower(s) of soft or small hail with or without rain or rain and snow mixed.	**88** Moderate or heavy shower(s) of soft or small hail with or without rain or rain and snow mixed.	**89** Slight shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder.
90 Moderate or heavy shower(s) of hail, with or without rain or rain and snow mixed, not associated with thunder.	**91** Slight rain at time of ob.; thunderstorm during past hour, but NOT at time of observation.	**92** Moderete or heavy rain et time of ob.; thunderstorm during past hour, but NOT at time of observation.	**93** Slight snow or rain and snow mixed or hail at time of observation.; thunderstorm during past hour, but not at time of observations.	**94** Mod. or heavy snow, or rain and snow mixed or hail at time of ob.; thunderstorm during past hour, but NOT at time of observation.	**95** Slight or mod. thunderstorm without hail, but with rain and/or snow at time of observation.	**96** Slight or moderate thunderstorm, with hail at time of observation.	**97** Heavy thunderstorm, without hail, but with rain and/or snow at time of observation.	**98** Thunderstorm combined with duststorm or sandstorm at time of observation.	**99** Heavy thunderstorm with hail at time of observation.

Table I, cont'd

Meteorological Codes used in Data Record

HEIGHT OF SEA

Code	Approximate Height (feet)	Description
0	-	Calm
1	Less than 1	Smooth
2	1 to 3	Slight
3	3 to 5	Moderate
4	5 to 8	Rough
5	8 to 12	Very rough
6	12 to 20	High
7	20 to 40	Very High
8	40 and over	Mountainous
9		Very rough, confused sea

SWELL CONDITIONS

Code	Approx. Height in feet	Description		Approx. Length in feet
0	0	No swell		0
1	1 - 6	Low swell	Short or av'ge	0 - 600
2			Long	Above 600
3			Short	0 - 300
4	6 - 12	Moderate	Average	300 - 600
5			Long	Above 600
6	Greater		Short	0 - 300
7	than 12	High	Average	300 - 600
8			Long	Above 600
9		Confused		

CLOUD TYPES

Name	Code
Stratocumulus	Sc
Stratus	St
Fractostratus	Fs
Nimbostratus	Ns
Cumulus	Cu
Cumulonimbus	Cb
Fractocumulus	Fc
Altostratus	As
Altocumulus	Ac
Cirrus	Ci
Cirrocumulus	Cc
Cirrostratus	Cs

CLOUD COVER

Code	Fraction of sky covered	Code	Fraction of sky covered
0	Cloudless	6	3/4
1	1/8 or less but not zero	7	7/8 or more, but not 8/8
2	1/4	8	Completely overcast
3	3/8	9	Sky obscured by fog or other phenomenon
4	1/2		
5	5/8		

EXPLANATION OF DATA RECORD HEADINGS

Observed Data:

Station:	Indicates the chronological order in which the stations were observed.
Time:	The time (G.M.T.) when the messenger was released to trip the first cast.
Date:	Day, month, year.
Lat: Long:	Position of the ship during the period of observation, recorded to the closest whole minute.
Sounding:	Depth in fathoms as determined from navigation charts.
Weather:	Reported in code as described in Table I.
Wind: Dir., Speed	True direction and speed reported in knots, as estimated by ocean surface effect.
Air Temp: Dry, Wet	Temperatures obtained from a sling psychrometer.
Baro:	Corrected reading of ship's barometer.
Cloud: Type, Amt.	Type of predominating clouds reported in code described in Table I, and sky coverage in eighths.
Sea: Swell:	Estimated true direction from which the sea and swell were coming, and height reported in code described in Table I.
Secchi Disc:	Depth in metres at which a white metal disc 30 cm in diameter just disappears from sight.
Depth: m.	Depth in metres of the sampling bottle at the time of reversal, as calculated from thermometric and wire angle information. The a, b, c postscripts are temperature classification indices.
Temp: °C	Temperatures from reversing thermometers read to 0.01°C. Values marked with an asterisk were determined by a two-point logarithmic interpolation on the computer. Surface temperatures (0 metres) are reported to two places to facilitate machine computations.
S: ‰	Salinity as defined by $S = 0.03 + 1.805\ Cl$ ‰ . Values marked with an asterisk have been determined by a two-point logarithmic interpolation.
σ_t:	"Sigma-T". The specific gravity anomaly as defined by: (Specific gravity - 1) x 1000, expressed as mgms per cm^3.

S/V: ft/sec — Sound velocity, calculated using Del Grosso's formula at atmospheric pressure with pressure terms based on Kuwahara's tables (Froese, MS, 1958; MS, 1960).

D.O.: mg.at/l — Dissolved oxygen content expressed as milligram-atoms per litre (000 filler indicates no determination made).

SiO_3: μg.at/l — Dissolved reactive inorganic silicate concentration expressed as microgram-atoms per litre.

Interpolated Data at Standard Depths:

Depth: m. — Standard depth in metres.

Temp: °C — Interpolated value.

S: ‰ — Interpolated value.

σ_t: — Computed value of "Sigma-T", calculated from the interpolated values of temperature and salinity.

S/V: ft/sec — Computed value from interpolated values of temperature and salinity.

D.O.: mg.at/l — Interpolated value.

$\triangle$ D: — Anomaly of dynamic height, in dynamic metres, of the sea surface relative to the pressure surface at the indicated depth. The integration is carried out with respect to pressure rather than depth according to the formula $\triangle D = \int_o^p \delta \, dp$, where δ is the specific volume anomaly and p is pressure.

P.E.: — Potential energy anomaly in units of 10^8 ergs/cm^2. The potential energy anomaly X is defined by $1/g \int_o^p p \, \delta \, dp$, where g is gravity, δ specific volume anomaly, and p pressure. The geostrophic transport, in millions of metric tons per second, between two stations, relative to a pressure surface p_o, is given by $\left| X_2(p_o) - X_1(p_o) \right| / 10^4 f$, where f is the Coriolis parameter in radians per second.

Pot. Temp: °C — Potential temperature at standard depths calculated from the interpolated values of temperature and salinity and the pressure at the indicated standard depth.

Ocean Weather Station "P"

Survey P-62-1, February 28 - April 16, 1962
Survey P-62-2, May 23 - July 2, 1962

Section I

Oceanographic Stations

Observed and Interpolated Data

STATION 1
Survey P-62-1

TIME: 0418 DATE: 28-ii-62 LAT: 48° 41' N. LONG: 126° 40' W. SOUNDING: 720 fms.
WEATHER: 60 WIND: Dir. var° Speed 7 AIR TEMP: Dry 38° Wet ° BARO: 1012. mb.
CLOUD: Type St Amt. 8 SEA: 120°-4 SWELL: °-9 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.10	32.505	25.46	4842.3	.000
0010a	08.45	32.528	25.29	4860.1	.000
0019c	08.48	32.522	25.28	4861.0	.000
0029a	08.46	32.513	25.28	4861.3	.000
0048c	08.46	32.516	25.28	4862.5	.000
0073a	08.56	32.822	25.50	4866.4	.000
0097c	08.37	33.444	26.02	4867.8	.000
0121a	08.06	33.728	26.29	4866.4	.000
0144c	07.85	33.857	26.42	4865.6	.000
0168b	07.72	33.911	26.48	4865.6	.000
0191c	07.30	33.923	26.55	4861.7	.000
0237a	06.95	33.970	26.64	4860.1	.000
0283c	06.64	33.979	26.69	4858.8	.000
0373a	05.95	33.978	26.77	4855.1	.000
0466a	05.10	34.031	26.92	4849.5	.000
0697a	04.26	34.243	27.18	4852.6	.000
0939a	03.72	34.406	27.36	4860.1	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.10	32.505	25.46	4842.3	.000	00.000	000.00	07.10
0010	08.45	32.528	25.29	4860.1	.000	00.026	000.01	08.45
0020	08.48	32.521	25.28	4861.1	.000	00.053	000.06	08.48
0030	08.46	32.513	25.28	4861.4	.000	00.081	000.13	08.46
0050	08.47	32.545	25.30	4862.8	.000	00.135	000.35	08.46
0075	08.54	32.880	25.55	4866.5	.000	00.200	000.76	08.53
0100	08.33	33.483	26.06	4867.6	.000	00.256	001.25	08.32
0125	08.02	33.752	26.31	4866.2	.000	00.303	001.79	08.01
0150	07.82	33.871	26.44	4865.6	.000	00.345	002.39	07.80
0175	07.59	33.915	26.50	4864.3	.000	00.385	003.06	07.57
0200	07.23	33.933	26.57	4861.3	.000	00.424	003.80	07.21
0250	06.86	33.973	26.65	4859.6	.000	00.498	005.51	06.83
0300	06.49	33.979	26.70	4857.9	.000	00.569	007.52	06.47
0400	05.68	33.995	26.82	4853.2	.000	00.704	012.35	05.65
0500	04.95	34.068	26.96	4849.6	.000	00.828	018.02	04.91
0600	04.57	34.164	27.08	4850.8	.000	00.939	024.28	04.53
0700	04.25	34.245	27.18	4852.6	.000	01.040	031.05	04.20
0800	04.01	34.318	27.27	4855.5	.000	01.134	038.23	03.95

STATION 2

TIME: 1119 DATE: 28-ii-62 LAT: 48° 51' N. LONG: 128° 40' W. SOUNDING: 1190 fms.
WEATHER: 03 WIND: Dir. 070° Speed 15 AIR TEMP: Dry 40° Wet 36° BARO: 1010. mb.
CLOUD: Type Sc Amt. 4 SEA: 070°-3 SWELL: 070°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.30	32.581	25.50	4845.2	.000
0009a	07.70	32.565	25.43	4850.8	.000
0028c	07.69	32.569	25.43	4851.8	.000
0045a	07.69	32.577	25.44	4852.8	.000
0067c	07.68	32.729	25.56	4854.6	.000
0090a	07.36	33.541	26.24	4855.0	.000
0113c	07.14	33.739	26.43	4854.3	.000
0136a	06.92	33.872	26.56	4853.3	.000
0158c	06.56	33.899*	26.63	4850.0	.000
0181b	06.31	33.923	26.68	4848.2	.000
0228c	05.66	33.940	26.78	4842.5	.000
0274a	05.42	33.972	26.83	4842.1	.000
0369a	04.95	34.057	26.96	4841.8	.000
0493a	04.64	34.162	27.07	4845.3	.000
0743a	03.92	34.313	27.27	4850.9	.000
0992a	03.43	34.418	27.40	4859.2	.000
1237a	02.88	34.502	27.52	4866.4	.000
1482a	02.46	34.530	27.58	4875.0	.000
1975a	01.89	34.615	27.69	4896.4	.000
2000	01.87*	34.619*	27.70	4897.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.30	32.581	25.50	4845.2	.000	00.000	000.00	07.30
0010	07.70	32.565	25.43	4850.8	.000	00.025	000.01	07.70
0020	07.69	32.568	25.43	4851.3	.000	00.051	000.05	07.69
0030	07.69	32.570	25.43	4851.9	.000	00.077	000.12	07.69
0050	07.69	32.616	25.47	4853.2	.000	00.128	000.33	07.68
0075	07.56	33.036	25.82	4854.7	.000	00.188	000.71	07.55
0100	07.26	33.632	26.33	4854.6	.000	00.237	001.14	07.25
0125	07.02	33.811	26.50	4853.7	.000	00.278	001.62	07.01
0150	06.69	33.889	26.61	4851.2	.000	00.316	002.15	06.67
0175	06.37	33.917	26.67	4848.7	.000	00.352	002.75	06.36
0200	06.03	33.930	26.73	4845.7	.000	00.387	003.42	06.01
0250	05.54	33.956	26.81	4842.3	.000	00.454	004.95	05.52
0300	05.28	33.998	26.87	4841.9	.000	00.517	006.73	05.25
0400	04.86	34.086	26.99	4842.6	.000	00.635	010.96	04.83
0500	04.62	34.167	27.08	4845.4	.000	00.744	015.98	04.58
0600	04.30	34.234	27.17	4847.3	.000	00.845	021.69	04.25
0700	04.02	34.291	27.24	4849.7	.000	00.939	027.97	03.97
0800	03.79	34.340	27.30	4852.6	.000	01.028	034.76	03.74
1000	03.41	34.421	27.41	4859.5	.000	01.190	049.70	03.34
1200	02.96	34.490	27.50	4865.2	.000	01.334	065.96	02.87
1500	02.44	34.534	27.58	4875.8	.000	01.526	092.50	02.33
2000	01.87	34.619	27.70	4897.5	.000	01.801	141.34	01.73

STATION 3

TIME: 1910 DATE: 28-ii-62 LAT: 49° 02' N. LONG: 130° 40' W. SOUNDING: 1200 fms.
WEATHER: 02 WIND: Dir. 315° Speed 20 AIR TEMP: Dry 43° Wet 38° BARO: 1009. mb.
CLOUD: Type Cu Amt. 5 SEA: 315°-4 SWELL: 315°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.00	32.600	25.55	4841.4	.000
0010a	07.56	32.583	25.46	4849.1	.000
0029c	07.54	32.573	25.46	4849.9	.000
0048a	07.55	32.577	25.46	4851.2	.000
0072c	07.55	32.576	25.46	4852.6	.000
0097a	07.45	32.980	25.79	4854.4	.000
0121c	07.05	33.650	26.37	4853.2	.000
0145a	06.93	33.866	26.56	4854.0	.000
0169c	06.59	33.932	26.65	4851.2	.000
0194a	06.33	33.969	26.72	4849.4	.000
0242c	05.87	34.002	26.80	4846.4	.000
0288a	05.62	34.038	26.86	4845.9	.000
0388a	05.24	34.100	26.96	4847.0	.000
0459a	05.14	34.152	27.01	4850.1	.000
0697a	04.41	34.218	27.14	4854.5	.000
0928a	03.73	34.351	27.32	4859.4	.000
1162a	03.07	34.442	27.46	4864.4	.000
1400a	02.56	34.501	27.55	4871.5	.000
1896a	02.06	34.580	27.65	4894.0	.000
2000	01.97*	34.594*	27.67	4899.0	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.00	32.600	25.55	4841.4	.000	00.000	000.00	07.00
0010	07.56	32.583	25.46	4849.1	.000	00.025	000.01	07.56
0020	07.55	32.577	25.46	4849.5	.000	00.051	000.05	07.55
0030	07.54	32.573	25.46	4850.0	.000	00.076	000.12	07.54
0050	07.55	32.577	25.46	4851.3	.000	00.127	000.33	07.55
0075	07.54	32.631	25.50	4852.8	.000	00.191	000.73	07.53
0100	07.40	33.072	25.87	4854.2	.000	00.249	001.26	07.39
0125	07.03	33.689	26.40	4853.4	.000	00.297	001.80	07.02
0150	06.86	33.881	26.58	4853.3	.000	00.337	002.36	06.84
0175	06.52	33.941	26.67	4850.8	.000	00.373	002.96	06.51
0200	06.27	33.974	26.73	4849.0	.000	00.408	003.63	06.25
0250	05.82	34.009	26.81	4846.2	.000	00.474	005.16	05.80
0300	05.57	34.046	26.87	4846.0	.000	00.537	006.93	05.54
0400	05.22	34.109	26.97	4847.5	.000	00.656	011.21	05.19
0500	04.99	34.165	27.04	4850.5	.000	00.769	016.40	04.95
0600	04.67	34.194	27.10	4852.3	.000	00.876	022.46	04.63
0700	04.40	34.220	27.15	4854.6	.000	00.979	029.32	04.35
0800	04.08	34.282	27.23	4856.4	.000	01.076	036.78	04.02
1000	03.51	34.381	27.37	4860.7	.000	01.250	052.78	03.44
1200	02.98	34.452	27.47	4865.4	.000	01.402	069.86	02.90
1500	02.45	34.519	27.57	4875.9	.000	01.601	097.26	02.34
2000	01.97	34.594	27.67	4899.0	.000	01.886	148.20	01.83

STATION 4

TIME: 0355 DATE: 1-iii-62 LAT: 49° 10' N. LONG: 132° 40' W. SOUNDING: 1800 fms.
WEATHER: 02 WIND: Dir. 350° Speed 25 AIR TEMP: Dry 39° Wet 36° BARO: 1010. mb.
CLOUD: Type Cu Amt. 5 SEA: 350°-5 SWELL: 340°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.00	32.606	25.56	4841.4	.000
0008a	07.42	32.547	25.45	4847.1	.000
0025c	07.40	32.555	25.46	4847.8	.000
0041a	07.40	32.546	25.46	4848.8	.000
0061c	07.41	32.546	25.45	4850.1	.000
0082b	07.42	32.559	25.46	4851.5	.000
0102c	07.31	32.897	25.74	4852.6	.000
0123a	06.94	33.407	26.19	4851.0	.000
0144c	06.83	33.664	26.41	4851.8	.000
0164b	06.67	33.802	26.54	4851.5	.000
0208c	06.20	33.902	26.68	4848.3	.000
0253a	05.44	33.944	26.81	4841.1	.000
0348a	04.75	34.029	26.96	4837.7	.000
0464a	04.32	34.108	27.07	4839.0	.000
0708a	03.72	34.262	27.25	4845.8	.000
0955a	03.18	34.382	27.40	4853.4	.000
1200a	02.76	34.472	27.51	4862.3	.000
1458a	02.36	34.524	27.58	4872.2	.000
1978a	01.91	34.629	27.70	4896.9	.000
2000	01.89*	34.633*	27.71	4898.0	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.00	32.606	25.56	4841.4	.000	00.000	000.00	07.00
0010	07.42	32.548	25.46	4847.1	.000	00.025	000.01	07.42
0020	07.40	32.553	25.46	4847.6	.000	00.051	000.05	07.40
0030	07.40	32.552	25.46	4848.1	.000	00.076	000.12	07.40
0050	07.40	32.546	25.46	4849.4	.000	00.127	000.33	07.40
0075	07.42	32.555	25.46	4851.0	.000	00.191	000.74	07.41
0100	07.32	32.866	25.72	4852.5	.000	00.252	001.28	07.31
0125	06.93	33.433	26.22	4851.1	.000	00.304	001.87	06.92
0150	06.78	33.707	26.45	4851.7	.000	00.347	002.48	06.77
0175	06.54	33.829	26.58	4850.6	.000	00.386	003.13	06.53
0200	06.28	33.885	26.66	4848.8	.000	00.423	003.84	06.26
0250	05.49	33.941	26.80	4841.5	.000	00.491	005.40	05.47
0300	05.07	33.989	26.89	4839.1	.000	00.554	007.17	05.05
0400	04.54	34.067	27.01	4838.1	.000	00.670	011.32	04.51
0500	04.21	34.135	27.10	4839.8	.000	00.777	016.24	04.18
0600	03.96	34.202	27.18	4842.4	.000	00.876	021.85	03.91
0700	03.74	34.258	27.24	4845.6	.000	00.969	028.06	03.69
0800	03.50	34.311	27.31	4848.4	.000	01.057	034.78	03.44
1000	03.10	34.400	27.42	4854.9	.000	01.216	049.41	03.03
1200	02.76	34.472	27.51	4862.3	.000	01.357	065.36	02.68
1500	02.32	34.534	27.59	4874.1	.000	01.546	091.41	02.22
2000	01.89	34.633	27.71	4898.0	.000	01.815	139.36	01.76

STATION 4A

TIME: 1218 DATE: 1-iii-62 LAT: 49° 18' N. LONG: 134° 40' W. SOUNDING: 1530 fms.
WEATHER: 01 WIND: Dir. 020° Speed 15 AIR TEMP: Dry 40° Wet 35° BARO: 1012. mb.
CLOUD: Type Cu Sc Amt. 1 SEA: 020°-4 SWELL: 350°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.50	32.541	25.57	4834.6	.000
0009a	06.89	32.497	25.49	4840.1	.000
0027c	06.90	32.502	25.49	4841.3	.000
0043a	06.89	32.503	25.49	4842.1	.000
0065c	06.89	32.518	25.50	4843.5	.000
0087a	06.90	32.540	25.52	4845.0	.000
0108c	06.89	32.861	25.77	4847.4	.000
0130a	06.73	33.198	26.06	4847.9	.000
0150c	06.63	33.530	26.33	4849.1	.000
0173a	06.54	33.752	26.52	4850.1	.000
0220c	06.07	33.880	26.68	4847.2	.000
0267a	05.42	33.893	26.77	4841.4	.000
0363a	04.65	33.953	26.91	4836.9	.000
0477a	04.24	34.094	27.06	4838.6	.000
0728a	03.71	34.285	27.27	4847.0	.000
0978a	03.13	34.366	27.39	4854.0	.000
1225a	02.72	34.454	27.50	4863.2	.000
1475a	02.40	34.515	27.57	4873.7	.000
1990a	01.98	34.604	27.68	4898.6	.000
2000	01.97*	34.605*	27.68	4899.1	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.50	32.541	25.57	4834.6	.000	00.000	000.00	06.50
0010	06.89	32.497	25.49	4840.2	.000	00.025	000.01	06.89
0020	06.90	32.500	25.49	4840.8	.000	00.050	000.05	06.90
0030	06.90	32.502	25.49	4841.5	.000	00.075	000.12	06.90
0050	06.89	32.508	25.50	4842.6	.000	00.126	000.32	06.89
0075	06.89	32.529	25.51	4844.2	.000	00.189	000.73	06.89
0100	06.89	32.746	25.68	4846.5	.000	00.249	001.27	06.88
0125	06.76	33.126	26.00	4847.8	.000	00.304	001.90	06.75
0150	06.63	33.530	26.33	4849.1	.000	00.352	002.56	06.62
0175	06.52	33.758	26.53	4850.0	.000	00.393	003.25	06.50
0200	06.26	33.829	26.62	4848.3	.000	00.430	003.97	06.24
0250	05.64	33.889	26.74	4843.4	.000	00.501	005.60	05.62
0300	05.13	33.916	26.82	4839.6	.000	00.567	007.45	05.11
0400	04.50	34.003	26.96	4837.3	.000	00.688	011.79	04.47
0500	04.18	34.115	27.09	4839.3	.000	00.798	016.83	04.14
0600	03.95	34.197	27.18	4842.4	.000	00.898	022.47	03.91
0700	03.76	34.267	27.25	4845.9	.000	00.991	028.67	03.71
0800	03.52	34.311	27.31	4848.8	.000	01.078	035.39	03.47
1000	03.09	34.375	27.40	4854.8	.000	01.240	050.24	03.02
1200	02.76	34.446	27.49	4862.2	.000	01.385	066.61	02.67
1500	02.38	34.520	27.58	4874.9	.000	01.579	093.41	02.27
2000	01.97	34.605	27.68	4899.1	.000	01.860	143.57	01.83

STATION 5

TIME: 2027 DATE: 1-iii-62 LAT: 49° 26' N. LONG: 136° 40' W. SOUNDING: 2080 fms.
WEATHER: 18 WIND: Dir. 340° Speed 20 AIR TEMP: Dry 42° Wet 38° BARO: 1016. mb.
CLOUD: Type Cb Cu Amt. 6 SEA: 340°-3 SWELL: 340°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.50	32.684	25.55	4848.1	.000
0010a	07.13	32.689	25.61	4844.0	.000
0030c	07.11	32.652	25.58	4844.8	.000
0049a	07.11	32.655	25.58	4845.9	.000
0074c	07.11	32.661	25.59	4847.4	.000
0098a	07.00	32.727	25.65	4847.7	.000
0123c	06.52	33.183	26.07	4844.7	.000
0148a	06.46	33.553	26.37	4846.8	.000
0172c	06.50	33.806	26.57	4849.7	.000
0197a	06.36	33.881	26.64	4849.7	.000
0246c	05.72	33.914	26.75	4844.3	.000
0295a	05.13	33.916	26.82	4839.3	.000
0395a	04.26	33.956	26.95	4833.5	.000
0446a	04.20	34.029	27.02	4836.0	.000
0678a	03.69	34.222	27.22	4843.5	.000
0906a	03.24	34.348	27.36	4851.2	.000
1133a	02.89	34.421	27.46	4860.0	.000
1378a	02.52	34.493	27.54	4869.6	.000
1862a	02.04	34.585	27.66	4891.8	.000
2000	01.93*	34.607*	27.68	4898.4	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.50	32.684	25.55	4848.1	.000	00.000	000.00	07.50
0010	07.13	32.689	25.61	4844.0	.000	00.024	000.01	07.13
0020	07.12	32.667	25.59	4844.4	.000	00.049	000.05	07.12
0030	07.11	32.652	25.58	4844.8	.000	00.073	000.11	07.11
0050	07.11	32.655	25.58	4846.0	.000	00.122	000.31	07.11
0075	07.10	32.664	25.59	4847.4	.000	00.183	000.70	07.10
0100	06.96	32.767	25.69	4847.4	.000	00.242	001.24	06.95
0125	06.51	33.215	26.10	4844.8	.000	00.296	001.85	06.50
0150	06.46	33.576	26.39	4847.1	.000	00.341	002.49	06.45
0175	06.48	33.816	26.58	4849.7	.000	00.381	003.15	06.47
0200	06.32	33.883	26.65	4849.3	.000	00.418	003.86	06.30
0250	05.67	33.914	26.76	4843.8	.000	00.487	005.45	05.65
0300	05.08	33.918	26.83	4838.9	.000	00.552	007.29	05.06
0400	04.25	33.964	26.96	4833.7	.000	00.674	011.62	04.22
0500	04.06	34.082	27.07	4837.5	.000	00.784	016.70	04.02
0600	03.84	34.166	27.16	4840.7	.000	00.885	022.41	03.80
0700	03.64	34.236	27.24	4844.1	.000	00.979	028.68	03.59
0800	03.43	34.294	27.30	4847.4	.000	01.067	035.44	03.38
1000	03.09	34.380	27.40	4854.7	.000	01.228	050.26	03.02
1200	02.78	34.442	27.48	4862.5	.000	01.374	066.66	02.70
1500	02.38	34.519	27.58	4875.0	.000	01.569	093.61	02.28
2000	01.93	34.607	27.68	4898.4	.000	01.849	143.48	01.79

STATION 6

TIME: 1112 DATE: 2-iii-62 LAT: 49° 39' N. LONG: 140° 40' W. SOUNDING: 2165 fms.
WEATHER: 03 WIND: Dir. 300° Speed 25 AIR TEMP: Dry 41° Wet 40° BARO: 1014. mb.
CLOUD: Type Sc Amt. 7 SEA: 300°-6 SWELL: 320°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	05.20	32.672	25.83	4817.9	.000
0009a	07.04	32.633	25.57	4842.6	.000
0028c	07.05	32.655	25.59	4843.9	.000
0046a	07.04	32.629	25.57	4844.7	.000
0069c	07.03	32.646	25.58	4846.0	.000
0092b	06.56	32.716	25.70	4841.6	.000
0114c	05.55	32.922	25.99	4830.3	.000
0136a	05.12	33.200	26.26	4826.9	.000
0160c	05.78	33.721	26.59	4839.2	.000
0181a	05.60	33.844	26.71	4838.5	.000
0226c	05.04	33.863	26.79	4833.8	.000
0274a	04.51	33.888	26.87	4829.5	.000
0370a	04.08	33.942	26.96	4829.5	.000
0483a	03.89	34.074	27.08	4834.1	.000
0733a	03.44	34.276	27.29	4843.4	.000
0981a	03.13	34.374	27.40	4854.2	.000
1237a	02.64	34.458	27.51	4862.8	.000
1494a	02.35	34.514	27.58	4874.1	.000
2000a	01.96	34.600	27.68	4898.8	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	05.20	32.672	25.83	4817.9	.000	00.000	000.00	05.20
0010	07.04	32.635	25.57	4842.6	.000	00.023	000.01	07.04
0020	07.05	32.647	25.58	4843.4	.000	00.048	000.05	07.05
0030	07.05	32.652	25.59	4844.0	.000	00.072	000.11	07.05
0050	07.04	32.632	25.57	4845.0	.000	00.121	000.31	07.03
0075	06.90	32.666	25.62	4844.7	.000	00.181	000.70	06.89
0100	06.17	32.796	25.81	4837.2	.000	00.239	001.22	06.16
0125	05.33	33.067	26.13	4828.5	.000	00.291	001.81	05.32
0150	05.52	33.513	26.46	4834.3	.000	00.335	002.43	05.51
0175	05.65	33.810	26.68	4838.7	.000	00.373	003.06	05.64
0200	05.35	33.853	26.75	4836.3	.000	00.407	003.71	05.33
0250	04.76	33.876	26.83	4831.5	.000	00.472	005.21	04.74
0300	04.38	33.904	26.90	4829.3	.000	00.534	006.95	04.36
0400	04.02	33.981	27.00	4830.6	.000	00.649	011.09	04.00
0500	03.85	34.091	27.10	4834.6	.000	00.756	016.02	03.82
0600	03.66	34.179	27.19	4838.2	.000	00.855	021.56	03.61
0700	03.49	34.254	27.27	4842.1	.000	00.946	027.63	03.44
0800	03.35	34.305	27.32	4846.2	.000	01.031	034.21	03.29
1000	03.09	34.381	27.40	4854.8	.000	01.190	048.88	03.02
1200	02.70	34.447	27.49	4861.5	.000	01.335	065.12	02.62
1500	02.34	34.515	27.58	4874.4	.000	01.528	091.79	02.24
2000	01.96	34.600	27.68	4898.8	.000	01.809	142.08	01.82

STATION 6A

TIME: 2045 DATE: 2-iii-62 LAT: 49° 49' N. LONG: 142° 40' W. SOUNDING: 2200 fms.
WEATHER: 50 WIND: Dir. 310° Speed 25 AIR TEMP: Dry 43° Wet 42° BARO: 1016. mb.
CLOUD: Type St Amt. 8 SEA: 310°-6 SWELL: 310°-5 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.80	32.625	25.60	4838.9	.000
0009a	06.67	32.600	25.60	4837.6	.000
0027c	06.67	32.603	25.60	4838.7	.000
0045a	06.65	32.650	25.64	4839.7	.000
0068c	06.37	32.624	25.65	4837.3	.000
0091a	06.31	32.693	25.72	4838.1	.000
0114c	05.41	32.813	25.92	4828.0	.000
0136a	04.53	32.964	26.14	4817.9	.000
0159c	04.78	33.354	26.42	4824.3	.000
0182b	05.06	33.740	26.69	4830.9	.000
0227c	04.87	33.853	26.80	4831.5	.000
0272a	04.35	33.885	26.89	4827.2	.000
0364a	03.86	33.960	27.00	4826.1	.000
0435a	03.84	34.054	27.07	4830.5	.000
0663a	03.56	34.251	27.26	4840.9	.000
0895a	03.14	34.356	27.38	4849.2	.000
1126a	02.78	34.431	27.47	4858.1	.000
1365a	02.45	34.491	27.55	4867.8	.000
1852a	02.03	34.582	27.66	4891.0	.000
2000	01.92*	34.605*	27.68	4898.3	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.80	32.625	25.60	4838.9	.000	00.000	000.00	06.80
0010	06.67	32.600	25.60	4837.7	.000	00.024	000.01	06.67
0020	06.67	32.602	25.60	4838.3	.000	00.048	000.05	06.67
0030	06.67	32.612	25.61	4838.9	.000	00.072	000.11	06.66
0050	06.58	32.644	25.64	4839.1	.000	00.120	000.31	06.58
0075	06.35	32.647	25.67	4837.5	.000	00.180	000.69	06.34
0100	05.94	32.743	25.80	4833.9	.000	00.237	001.20	05.93
0125	04.95	32.892	26.03	4822.8	.000	00.290	001.81	04.94
0150	04.69	33.208	26.31	4821.9	.000	00.337	002.47	04.68
0175	04.98	33.628	26.61	4829.0	.000	00.377	003.13	04.97
0200	04.98	33.788	26.74	4831.1	.000	00.412	003.81	04.96
0250	04.59	33.870	26.85	4829.1	.000	00.477	005.30	04.57
0300	04.19	33.910	26.92	4826.7	.000	00.537	007.01	04.16
0400	03.85	34.010	27.04	4828.3	.000	00.650	011.03	03.82
0500	03.75	34.119	27.13	4833.3	.000	00.753	015.79	03.71
0600	03.63	34.204	27.21	4837.9	.000	00.849	021.17	03.58
0700	03.48	34.270	27.28	4842.1	.000	00.938	027.13	03.43
0800	03.30	34.317	27.33	4845.6	.000	01.022	033.61	03.24
1000	02.97	34.392	27.43	4853.1	.000	01.178	047.93	02.90
1200	02.67	34.451	27.50	4861.0	.000	01.319	063.86	02.59
1500	02.32	34.519	27.58	4874.1	.000	01.510	090.28	02.22
2000	01.92	34.605	27.68	4898.3	.000	01.789	139.92	01.79

STATION 101

TIME: 1851 DATE: 5-iii-62 LAT: 50° 00' N. LONG: 145° 08' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 290° Speed 15 AIR TEMP: Dry 41° Wet 39° BARO: 1022. mb.
CLOUD: Type Sc Amt. 6 SEA: 290°-4 SWELL: 270°-6 SECCHI DISC: 16 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.30	32.605	25.65	4832.3	.638
0010a	05.86	32.578	25.68	4826.9	.642
0030c	05.84	32.590	25.69	4827.9	.637
0050a	05.82	32.576	25.68	4828.8	.650
0075c	05.84	32.586	25.69	4830.5	.642
0100a	05.21	32.765	25.90	4824.3	.625
0125	04.82*	33.189	26.28	4822.2	.548
0150a	04.50	33.485	26.55	4820.4	.462
0175c	04.38	33.728	26.76	4821.2	.362
0200a	04.24	33.787	26.82	4821.0	.317
0250c	03.86	33.840	26.90	4818.9	.242
0300a	03.81	33.994	27.03	4821.8	.200
0400a	03.65	34.009	27.06	4825.6	.144
0500a	03.57	34.152	27.18	4830.9	.099
0750a	03.24	34.308	27.33	4841.8	.057
1000a	02.90	34.403	27.44	4852.2	.052
1250a	02.56	34.469	27.52	4862.5	.056
1500a	02.31	34.529	27.59	4873.9	.077
2000a	01.93	34.597	27.68	4898.4	.118

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.30	32.605	25.65	4832.3	.638	00.000	000.00	06.30
0010	05.86	32.578	25.68	4826.9	.642	00.024	000.01	05.86
0020	05.85	32.585	25.69	4827.4	.639	00.047	000.05	05.85
0030	05.84	32.590	25.69	4827.9	.637	00.070	000.11	05.84
0050	05.82	32.576	25.68	4828.8	.650	00.117	000.30	05.82
0075	05.84	32.586	25.69	4830.5	.642	00.175	000.67	05.83
0100	05.21	32.765	25.90	4824.3	.625	00.231	001.17	05.20
0125	04.82	33.189	26.28	4822.2	.548	00.280	001.73	04.81
0150	04.50	33.485	26.55	4820.4	.462	00.321	002.31	04.49
0175	04.38	33.728	26.76	4821.2	.362	00.357	002.90	04.37
0200	04.24	33.787	26.82	4821.0	.317	00.389	003.52	04.23
0250	03.86	33.840	26.90	4818.9	.242	00.450	004.93	03.84
0300	03.81	33.994	27.03	4821.8	.200	00.507	006.53	03.79
0400	03.65	34.009	27.06	4825.6	.144	00.613	010.35	03.62
0500	03.57	34.152	27.18	4830.9	.099	00.714	014.95	03.54
0600	03.42	34.222	27.25	4835.1	.080	00.805	020.12	03.38
0700	03.30	34.281	27.31	4839.5	.064	00.891	025.86	03.25
0800	03.16	34.329	27.36	4843.8	.056	00.973	032.14	03.11
1000	02.90	34.403	27.44	4852.2	.052	01.124	046.10	02.83
1200	02.62	34.457	27.51	4860.3	.055	01.263	061.75	02.54
1500	02.31	34.529	27.59	4873.9	.077	01.451	087.79	02.21
2000	01.93	34.597	27.68	4898.4	.118	01.729	137.44	01.79

STATION 102 (Composite)

TIME: 1905 DATE: 7-iii-62 LAT: 50° 00' N. LONG: 145° 06' W. SOUNDING: 2200 fms.
WEATHER: 50 WIND: Dir. 350° Speed 20 AIR TEMP: Dry 42° Wet 40° BARO: 1021. mb.
CLOUD: Type St Sc Amt. 7 SEA: 350°-4 SWELL: 270°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	06.20	32.606	25.66	4831.0	.638	23.4
0009a	05.84	32.584	25.69	4826.6	.632	22.8
0027c	05.83	32.590	25.69	4827.6	.672	24.8
0045a	05.82	32.587	25.69	4828.5	.624	24.4
0068c	05.82	32.596	25.70	4829.9	.632	23.1
0091b	05.59	32.657	25.78	4828.4	.628	25.9
0113c	04.58	33.060	26.21	4817.6	.581	31.5
0136a	04.61	33.413	26.48	4820.8	.477	27.8
0159c	04.41	33.697	26.73	4820.5	.375	38.8
0181b	04.26	33.777	26.81	4820.1	.318	46.3
0227c	03.91	33.823	26.88	4818.2	.260	50.0
0272a	03.74	33.884	26.95	4818.7	.206	59.1
0362a	03.67	33.945	27.00	4823.3	.155	68.3
0432a	03.63	34.037*	27.08	4827.3	.169	72.0
0640c	03.47	34.244	27.26	4838.2	.078	89.0
0845a	03.14	34.355	27.38	4846.2	.030	98.5
1064a	02.82	34.418	27.46	4854.9	.034	112.0
1288a	02.51	34.484	27.54	4864.1	.033	112.0
1747a	02.08	34.566	27.64	4885.4	.093	123.0
1970a*	01.96	34.600	27.68	4897.1	.124	157.0
2470b	01.73	34.641	27.73	4923.5	.168	160.0
2985a	01.63	34.671	27.76	4952.6	.232	157.0
3475b	01.52	34.685	27.78	4980.0	.260	160.0
3975b	01.50	34.699	27.79	5009.2	.290	155.0
4000	01.50*	34.700*	27.79	5010.6	.291*	

*Depths 1970m to 3975m observed 1915/8-iii-62.

STATION 102 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.20	32.606	25.66	4831.0	.638	00.000	000.00	06.20
0010	05.84	32.584	25.69	4826.7	.635	00.023	000.01	05.84
0020	05.83	32.588	25.69	4827.2	.659	00.047	000.05	05.83
0030	05.83	32.589	25.69	4827.7	.663	00.070	000.11	05.83
0050	05.82	32.589	25.69	4828.8	.626	00.117	000.30	05.82
0075	05.74	32.616	25.72	4829.4	.631	00.174	000.67	05.74
0100	05.15	32.832	25.96	4823.8	.608	00.229	001.16	05.15
0125	04.60	33.252	26.36	4819.3	.525	00.276	001.70	04.59
0150	04.48	33.591	26.64	4820.6	.413	00.316	002.25	04.47
0175	04.30	33.756	26.79	4820.2	.333	00.350	002.81	04.29
0200	04.11	33.797	26.84	4819.2	.293	00.381	003.42	04.09
0250	03.82	33.855	26.92	4818.4	.231	00.442	004.82	03.80
0300	03.72	33.905	26.97	4820.1	.189	00.500	006.44	03.70
0400	03.65	33.997	27.05	4825.5	.163	00.609	010.37	03.62
0500	03.57	34.114	27.15	4830.8	.135	00.711	015.07	03.54
0600	03.50	34.210	27.23	4836.1	.093	00.805	020.36	03.45
0700	03.36	34.280	27.30	4840.4	.063	00.893	026.19	03.32
0800	03.21	34.333	27.36	4844.4	.039	00.975	032.50	03.15
1000	02.91	34.401	27.44	4852.3	.033	01.127	046.50	02.84
1200	02.62	34.460	27.51	4860.4	.033	01.265	062.15	02.54
1500	02.30	34.525	27.59	4873.7	.063	01.454	088.19	02.19
2000	01.94	34.603	27.68	4898.6	.127	01.731	137.76	01.81
2500	01.72	34.643	27.73	4925.2	.172	01.980	195.33	01.54
3000	01.63	34.671	27.76	4953.5	.233	02.215	262.09	01.40
3500	01.52	34.686	27.78	4981.5	.262	02.444	338.90	01.24
4000	01.50	34.700	27.79	5010.6	.291	02.670	426.94	01.17

STATION 103

TIME: 1854 DATE: 9-iii-62 LAT: 50° 00' N. LONG: 144° 53' W. SOUNDING: 2200 fms.
WEATHER: 47 WIND: Dir. var° Speed 5 AIR TEMP: Dry 45° Wet 45° BARO: 1036. mb.
CLOUD: Type Amt. SEA: var°-1 SWELL: var°-4 SECCHI DISC: 16 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.30	32.609	25.65	4832.3	.640
0010a	05.90	32.600	25.69	4827.5	.641
0030c	05.88	32.613	25.71	4828.5	.636
0050a	05.86	32.609	25.71	4829.4	.636
0075c	05.79	32.635	25.73	4830.1	.636
0100a	04.67	32.993	26.14	4817.8	.595
0125	04.59*	33.299	26.40	4819.4	.520
0150a	04.52	33.617	26.65	4821.2	.401
0175c	04.45	33.769	26.78	4822.3	.330
0200a	04.24	33.792	26.82	4821.0	.294
0250c	03.81	33.855	26.92	4818.3	.232
0300a	03.80	33.922	26.97	4821.4	.182
0400a	03.69	34.053	27.09	4826.3	.132

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.30	32.609	25.65	4832.3	.640	00.000	000.00	06.30
0010	05.90	32.600	25.69	4827.5	.641	00.023	000.01	05.90
0020	05.89	32.608	25.70	4828.0	.638	00.047	000.05	05.89
0030	05.88	32.613	25.71	4828.5	.636	00.070	000.11	05.88
0050	05.86	32.609	25.71	4829.4	.636	00.116	000.30	05.86
0075	05.79	32.635	25.73	4830.1	.636	00.174	000.67	05.78
0100	04.67	32.993	26.14	4817.8	.595	00.226	001.13	04.66
0125	04.59	33.299	26.40	4819.4	.520	00.271	001.64	04.58
0150	04.52	33.617	26.65	4821.2	.401	00.309	002.18	04.51
0175	04.45	33.769	26.78	4822.3	.330	00.343	002.75	04.44
0200	04.24	33.792	26.82	4821.0	.294	00.375	003.36	04.23
0250	03.81	33.855	26.92	4818.3	.232	00.436	004.77	03.79
0300	03.80	33.922	26.97	4821.4	.182	00.494	006.39	03.78
0400	03.69	34.053	27.09	4826.3	.132	00.602	010.24	03.66

STATION 104 (Composite)

TIME: 1851 DATE: 13-iii-62 LAT: 49° 57' N. LONG: 144° 59' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 310° Speed 20 AIR TEMP: Dry 40° Wet 36° BARO: 1016. mb.
CLOUD: Type Sc Cu Amt. 6 SEA: 310°-4 SWELL: 240°-6 SECCHI DISC: 17 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	06.40	32.591	25.62	4833.5	.632	23.5
0009a	05.97	32.648	25.72	4828.6	.636	23.1
0028c	05.95	32.609	25.69	4829.3	.634	23.6
0047a	05.94	32.606	25.69	4830.3	.629	23.1
0070c	05.85	32.608	25.71	4830.5	.624	22.8
0094a	05.39	32.713	25.84	4826.1	.619	26.6
0117	05.06*	33.058	26.15	4824.4	.579	32.3
0141a	04.78	33.475	26.51	4823.7	.474	41.0
0165c	04.48	33.707	26.73	4821.9	.361	54.6
0188a	04.25	33.794	26.82	4820.4	.314	63.0
0235c	03.91	33.827	26.89	4818.7	.248	71.5
0282a	03.90	33.894	26.94	4821.6	.201	78.9
0375a	03.68	34.002	27.05	4824.5	.150	91.5
0443a	03.64	34.080	27.11	4828.3	.116	97.0
0668a	03.40	34.256	27.28	4838.9	.061	117.0
0894a	03.05	34.374	27.40	4847.9	.057	133.0
1123a	02.70	34.443	27.49	4856.8	.053	139.0
1363a	02.44	34.503	27.56	4867.6	.067	147.0
1832a	02.04	34.583	27.66	4890.0	.103	157.0
1940a*	01.98	34.602	27.68	4895.6	.117	161.0
2451a	01.74	34.648	27.73	4922.6	.167	161.0
2947a	01.60	34.678	27.77	4950.0	.224	161.0
3431a	01.54	34.693	27.78	4977.7	.262	157.0
3935a	01.51	34.712	27.80	5007.0	.289	157.0
4140a	01.51	34.706	27.80	5019.0	.286	157.0

*Depths 1940m to 4140m observed 1912/14-iii-62.

STATION 104 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.40	32.591	25.62	4833.5	.632	00.000	000.00	06.40
0010	05.97	32.645	25.72	4828.6	.636	00.023	000.01	05.97
0020	05.96	32.622	25.70	4829.0	.635	00.047	000.05	05.96
0030	05.95	32.609	25.69	4829.4	.633	00.070	000.11	05.95
0050	05.93	32.606	25.69	4830.3	.628	00.116	000.30	05.92
0075	05.74	32.632	25.74	4829.4	.623	00.174	000.67	05.74
0100	05.30	32.810	25.93	4825.6	.608	00.229	001.16	05.29
0125	04.96	33.205	26.28	4824.1	.542	00.278	001.71	04.95
0150	04.66	33.566	26.60	4822.9	.430	00.318	002.28	04.65
0175	04.38	33.746	26.77	4821.2	.340	00.353	002.86	04.36
0200	04.16	33.803	26.84	4819.9	.296	00.385	003.47	04.14
0250	03.91	33.850	26.90	4819.6	.232	00.446	004.88	03.89
0300	03.85	33.917	26.96	4822.1	.190	00.504	006.52	03.83
0400	03.66	34.032	27.07	4825.9	.137	00.613	010.40	03.64
0500	03.57	34.132	27.16	4830.9	.100	00.713	015.01	03.54
0600	03.46	34.210	27.23	4835.6	.075	00.806	020.26	03.42
0700	03.34	34.275	27.30	4840.1	.060	00.893	026.08	03.30
0800	03.18	34.329	27.35	4844.0	.059	00.975	032.40	03.13
1000	02.88	34.408	27.45	4851.9	.055	01.126	046.32	02.81
1200	02.61	34.464	27.51	4860.2	.058	01.264	061.84	02.53
1500	02.31	34.529	27.59	4874.0	.079	01.451	087.76	02.21
2000	01.95	34.608	27.68	4898.7	.124	01.728	137.11	01.81
2500	01.72	34.651	27.74	4925.3	.173	01.974	194.13	01.55
3000	01.59	34.680	27.77	4953.0	.228	02.205	259.66	01.37
3500	01.54	34.696	27.78	4981.8	.266	02.430	335.20	01.26
4000	01.51	34.710	27.80	5010.8	.288	02.654	422.22	01.18

STATION 105

TIME: 1856 DATE: 16-iii-62 LAT: 50° 00' N. LONG: 144° 56' W. SOUNDING: 2200 fms.
WEATHER: 03 WIND: Dir. 260° Speed 15 AIR TEMP: Dry 40° Wet 38° BARO: 1022. mb.
CLOUD: Type Sc St Amt. 8 SEA: 260°-2 SWELL: 300°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.10	32.621	25.69	4829.7	.654
0009a	05.94	32.590	25.68	4828.0	.645
0028c	05.92	32.590	25.68	4828.8	.634
0047a	05.92	32.587	25.68	4830.0	.634
0070c	05.67	32.635	25.75	4828.2	.632
0094c	05.10	32.746	25.90	4822.4	.632
0117c	04.58	33.008	26.17	4817.7	.604
0141a	04.53	33.294	26.40	4819.5	.524
0165c	04.59	33.675	26.69	4823.3	.390
0188b	04.32	33.783	26.81	4821.4	.330
0235c	04.06	33.821	26.87	4820.7	.273
0284a	03.89	33.883	26.93	4821.5	.219
0383a	03.69	34.005	27.05	4825.1	.154
0400	03.66*	34.023*	27.07	4825.8	.145*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.10	32.621	25.69	4829.7	.654	00.000	000.00	06.10
0010	05.94	32.590	25.68	4828.0	.644	00.023	000.01	05.94
0020	05.93	32.590	25.68	4828.5	.638	00.047	000.05	05.93
0030	05.92	32.590	25.68	4829.0	.634	00.070	000.11	05.92
0050	05.88	32.594	25.69	4829.7	.634	00.117	000.30	05.88
0075	05.54	32.661	25.78	4826.8	.632	00.174	000.67	05.53
0100	04.95	32.820	25.98	4821.0	.624	00.228	001.15	04.95
0125	04.56	33.109	26.25	4818.3	.576	00.276	001.70	04.55
0150	04.55	33.444	26.51	4821.0	.471	00.318	002.29	04.54
0175	04.47	33.724	26.75	4822.4	.363	00.354	002.89	04.46
0200	04.25	33.793	26.82	4821.1	.314	00.387	003.51	04.23
0250	04.00	33.841	26.89	4820.9	.255	00.448	004.94	03.99
0300	03.85	33.905	26.95	4822.0	.207	00.507	006.59	03.83
0400	03.66	34.023	27.07	4825.8	.145	00.617	010.51	03.63

STATION 106 (Composite)

TIME: 1845 DATE: 20-iii-62 LAT: 49° 58' N. LONG: 144° 54' W. SOUNDING: 2200 fms.
WEATHER: 50 WIND: Dir. 230° Speed 15 AIR TEMP: Dry 43° Wet 42° BARO: 1016. mb.
CLOUD: Type St Amt. 8 SEA: 230°-3 SWELL: 250°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	06.30	32.606	25.65	4832.3	.642	25.0
0010a	05.92	32.591	25.68	4827.8	.635	22.1
0029c	05.90	32.594	25.69	4828.6	.636	22.8
0049a	05.89	32.592	25.69	4829.7	.636	22.5
0073c	05.68	32.613	25.73	4828.4	.636	22.2
0097a	04.61	32.853	26.04	4816.3	.612	28.8
0122c	04.46	33.198	26.33	4817.1	.590	34.5
0146a	04.74	33.527	26.56	4823.6	.452	41.9
0171c	04.46	33.741	26.76	4822.1	.354	54.8
0195b	04.29	33.780	26.81	4821.4	.320	60.1
0244c	03.93	33.834	26.89	4819.5	.247	67.9
0294a	03.81	33.893	26.95	4821.0	.205	75.9
0393a	03.66	34.007	27.05	4825.3	.147	87.6
0466a	03.65	34.097	27.13	4829.8	.115	93.2
0708a	03.35	34.285	27.30	4840.7	.059	107.0
0945a	02.99	34.386	27.42	4850.1	.056	123.0
1183a	02.64	34.458	27.51	4859.6	.060	144.0
1426a	02.39	34.506	27.57	4870.6	.065	150.0
1887a*	02.02	34.596	27.67	4893.0	.109	144.0
2403a	01.76	34.636	27.72	4920.0	.159	142.0
2904a	01.63	34.672	27.76	4947.9	.225	132.0
3385a	01.56	34.685	27.77	4975.3	.255	134.0
3882a	01.50	34.698	27.79	5003.7	.287	131.0
4090a	01.50	34.697	27.79	5015.9	.288	132.0

*Depths 1887m to 4090m observed 1909/22-iii-62.

STATION 106 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.30	32.606	25.65	4832.3	.642	00.000	000.00	06.30
0010	05.92	32.591	25.68	4827.8	.635	00.024	000.01	05.92
0020	05.91	32.593	25.69	4828.2	.636	00.047	000.05	05.91
0030	05.90	32.594	25.69	4828.7	.636	00.070	000.11	05.90
0050	05.88	32.593	25.69	4829.6	.636	00.117	000.30	05.88
0075	05.58	32.635	25.76	4827.3	.634	00.174	000.67	05.57
0100	04.59	32.898	26.08	4816.4	.609	00.227	001.14	04.58
0125	04.50	33.242	26.36	4817.9	.571	00.273	001.66	04.49
0150	04.69	33.563	26.59	4823.3	.435	00.313	002.22	04.68
0175	04.43	33.748	26.77	4822.0	.348	00.348	002.80	04.42
0200	04.25	33.786	26.82	4821.1	.312	00.380	003.42	04.24
0250	03.91	33.842	26.90	4819.7	.242	00.441	004.84	03.90
0300	03.80	33.901	26.95	4821.3	.201	00.500	006.49	03.78
0400	03.66	34.016	27.06	4825.7	.144	00.610	010.41	03.63
0500	03.60	34.129	27.16	4831.3	.106	00.711	015.05	03.57
0600	03.47	34.210	27.23	4835.7	.081	00.804	020.32	03.43
0700	03.36	34.280	27.30	4840.4	.061	00.891	026.13	03.31
0800	03.20	34.328	27.35	4844.2	.058	00.973	032.45	03.14
1000	02.90	34.404	27.44	4852.2	.057	01.125	046.45	02.83
1200	02.62	34.462	27.51	4860.3	.060	01.263	062.05	02.54
1500	02.32	34.522	27.58	4874.1	.073	01.452	088.17	02.22
2000	01.96	34.606	27.68	4898.8	.121	01.731	137.92	01.82
2500	01.73	34.644	27.73	4925.3	.173	01.980	195.51	01.55
3000	01.62	34.675	27.76	4953.3	.231	02.214	262.01	01.39
3500	01.55	34.688	27.78	4981.9	.263	02.442	338.72	01.27
4000	01.50	34.697	27.79	5010.6	.288	02.670	427.15	01.17

STATION 107 (Composite)

TIME: 1847 DATE: 26-iii-62 LAT: 50° 01' N. LONG: 144° 48' W. SOUNDING: 2200 fms.
WEATHER: 00 WIND: Dir. 220° Speed 16 AIR TEMP: Dry 42° Wet 40° BARO: 1017. mb.
CLOUD: Type Sc Amt. 8 SEA: 220°-3 SWELL: 290°-4 SECCHI DISC: 18 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	06.20	32.616	25.67	4831.0	.636	22.0
0010a	05.85	32.607	25.70	4826.9	.636	20.1
0030c	05.83	32.585	25.69	4827.7	.624	20.1
0049a	05.78	32.592	25.70	4828.2	.630	20.5
0074c	05.72	32.599	25.71	4828.9	.636	19.8
0098a	05.64	32.611	25.73	4829.3	.634	21.1
0123c	04.46	32.925	26.11	4816.0	.599	26.8
0148a	04.41	33.304	26.42	4818.3	.514	31.4
0172c	04.42	33.633	26.68	4821.2	.400	44.5
0197b	04.34	33.788	26.81	4822.2	.310	51.1
0247c	04.03	33.835	26.88	4821.1	.251	56.9
0297a	03.90	33.899	26.94	4822.5	.202	64.0
0397a	03.68	34.001	27.05	4825.8	.147	91.2
0484a	03.61	34.118	27.15	4830.4	.108	102.0
0732a	03.29	34.286	27.31	4841.3	.057	118.0
0975a	02.90	34.408	27.44	4850.7	.056	132.0
1217a	02.59	34.479	27.53	4861.0	.065	139.0
1465a	02.34	34.519	27.58	4872.3	.071	146.0
1880a*	01.99	34.586	27.66	4892.1	.116	138.0
2391a	01.75	34.631	27.72	4919.1	.175	136.0
2895a	01.63	34.662	27.75	4947.3	.245	136.0
3390a	01.54	34.683	27.77	4975.3	.266	135.0
3887a	01.50	34.707	27.80	5004.0	.285	131.0
4090a	01.50	34.708	27.80	5016.0	.293	129.0

*Depths 1880m to 4090m observed 1919/27-iii-62.

STATION 107 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.20	32.616	25.67	4831.0	.636	00.000	000.00	06.20
0010	05.85	32.607	25.70	4826.9	.636	00.023	000.01	05.85
0020	05.84	32.594	25.70	4827.3	.629	00.046	000.05	05.84
0030	05.83	32.585	25.69	4827.7	.624	00.070	000.11	05.83
0050	05.78	32.592	25.70	4828.2	.630	00.116	000.30	05.77
0075	05.72	32.600	25.71	4828.9	.636	00.174	000.67	05.71
0100	05.54	32.639	25.77	4828.2	.631	00.231	001.18	05.53
0125	04.46	32.958	26.14	4816.2	.592	00.284	001.78	04.45
0150	04.41	33.333	26.44	4818.6	.504	00.328	002.40	04.40
0175	04.41	33.653	26.70	4821.3	.389	00.365	003.02	04.40
0200	04.32	33.791	26.81	4822.1	.306	00.398	003.66	04.31
0250	04.02	33.839	26.88	4821.1	.248	00.460	005.09	04.00
0300	03.89	33.903	26.95	4822.6	.200	00.519	006.75	03.87
0400	03.68	34.005	27.05	4825.9	.146	00.630	010.71	03.65
0500	03.58	34.131	27.16	4831.1	.104	00.731	015.36	03.55
0600	03.44	34.205	27.23	4835.3	.082	00.825	020.62	03.40
0700	03.32	34.268	27.29	4839.8	.063	00.912	026.46	03.28
0800	03.17	34.324	27.35	4843.8	.057	00.994	032.80	03.11
1000	02.86	34.416	27.45	4851.7	.057	01.145	046.67	02.80
1200	02.61	34.474	27.52	4860.2	.064	01.281	061.99	02.53
1500	02.31	34.525	27.59	4873.9	.075	01.468	087.81	02.20
2000	01.93	34.598	27.68	4898.4	.131	01.746	137.52	01.79
2500	01.72	34.638	27.73	4925.2	.191	01.996	195.40	01.54
3000	01.61	34.667	27.76	4953.2	.250	02.232	262.45	01.38
3500	01.53	34.689	27.78	4981.7	.270	02.461	339.32	01.26
4000	01.50	34.708	27.80	5010.7	.290	02.686	426.76	01.17

STATION 108

TIME: 1901 DATE: 30-iii-62 LAT: 50° 00' N. LONG: 145° 00' W. SOUNDING: 2200 fms.
WEATHER: 63 WIND: Dir. 140° Speed 25 AIR TEMP: Dry 44° Wet 44° BARO: 1011. mb.
CLOUD: Type Ns Amt. 8 SEA: 140°-5 SWELL: 120°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.40	32.585	25.62	4833.5	.630
0009a	05.73	32.583	25.70	4825.2	.632
0028c	05.72	32.585	25.70	4826.2	.629
0047a	05.69	32.582	25.70	4826.9	.633
0070c	05.70	32.587	25.71	4828.4	.631
0094a	05.30	32.659	25.81	4824.7	.620
0117c	04.41	32.979	26.16	4815.2	.589
0141a	04.10	33.316	26.46	4813.7	.486
0165c	04.09	33.657	26.73	4816.3	.367
0188a	04.28	33.783	26.81	4820.8	.313
0235c	03.81	33.819	26.89	4817.2	.246
0283a	03.82	33.890	26.94	4820.5	.197
0383a	03.65	33.984	27.04	4824.4	.144
0400	03.63*	33.998*	27.05	4825.2	.136*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.40	32.585	25.62	4833.5	.630	00.000	000.00	06.40
0010	05.73	32.583	25.70	4825.2	.632	00.024	000.01	05.73
0020	05.72	32.584	25.70	4825.7	.630	00.047	000.05	05.72
0030	05.72	32.585	25.70	4826.2	.630	00.070	000.11	05.71
0050	05.69	32.583	25.70	4827.1	.633	00.116	000.30	05.69
0075	05.61	32.604	25.73	4827.5	.628	00.174	000.67	05.60
0100	05.05	32.749	25.91	4822.0	.611	00.229	001.16	05.04
0125	04.30	33.098	26.27	4814.7	.553	00.278	001.72	04.29
0150	04.10	33.450	26.57	4814.7	.439	00.319	002.30	04.09
0175	04.18	33.714	26.77	4818.3	.343	00.354	002.88	04.16
0200	04.15	33.793	26.83	4819.8	.294	00.387	003.50	04.14
0250	03.81	33.843	26.91	4818.3	.230	00.447	004.90	03.80
0300	03.79	33.908	26.96	4821.1	.187	00.505	006.54	03.77
0400	03.63	33.998	27.05	4825.2	.136	00.615	010.47	03.60

STATION 109

TIME: 1855 DATE: 3-iv-62 LAT: 50° 02' N. LONG: 144° 58' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 190° Speed 16 AIR TEMP: Dry 43° Wet 41° BARO: 1002. mb.
CLOUD: Type Cu Amt. 4 SEA: 190°-4 SWELL: 220°-7 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	06.20	32.614	25.67	4831.0	.641	22.4
0008a	05.76	32.585	25.70	4825.5	.641	21.4
0025c	05.75	32.580	25.70	4826.4	.625	22.6
0042a	05.73	32.584	25.70	4827.1	.626	23.1
0063c	05.74	32.584	25.70	4828.5	.629	21.5
0084a	05.71	32.586	25.70	4829.3	.631	22.9
0105c	04.78	32.813	25.99	4818.9	.613	26.8
0126a	04.31	33.065	26.24	4814.7	.567	30.3
0148c	04.42	33.460	26.54	4819.1	.452	42.9
0168b	04.66	33.728	26.73	4824.6	.358	51.1
0210c	04.35	33.820	26.83	4823.2	.277	59.0
0255a	03.91	33.835	26.89	4819.9	.241	66.4
0350a	03.68	33.956	27.01	4822.8	.161	78.6
0507a*	03.58	34.105	27.14	4831.3	.099	93.3
0664a	03.43	34.248	27.27	4839.1	.069	103.0
0825a	03.16	34.326	27.35	4845.2	.060	108.0
1005a	02.88	34.392	27.43	4852.2	.056	116.0
1361a	02.40	34.483	27.55	4866.8	.056	125.0

*The second cast (507 to 1361) data are questionable because of a 45° wire angle.

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.20	32.614	25.67	4831.0	.641	00.000	000.00	06.20
0010	05.76	32.584	25.70	4825.6	.638	00.023	000.01	05.76
0020	05.75	32.581	25.70	4826.1	.629	00.047	000.05	05.75
0030	05.74	32.581	25.70	4826.6	.625	00.070	000.11	05.74
0050	05.73	32.584	25.70	4827.6	.627	00.116	000.30	05.73
0075	05.72	32.585	25.70	4829.0	.630	00.174	000.67	05.72
0100	04.99	32.763	25.93	4821.2	.617	00.230	001.17	04.98
0125	04.33	33.054	26.23	4814.9	.569	00.279	001.73	04.32
0150	04.45	33.488	26.56	4819.7	.442	00.321	002.31	04.43
0175	04.60	33.745	26.75	4824.3	.343	00.356	002.90	04.59
0200	04.42	33.800	26.81	4823.5	.295	00.389	003.53	04.40
0250	03.96	33.833	26.89	4820.2	.245	00.451	004.96	03.94
0300	03.79	33.897	26.95	4821.2	.200	00.510	006.62	03.77
0400	03.64	34.010	27.06	4825.5	.139	00.619	010.55	03.62
0500	03.58	34.099	27.13	4830.9	.101	00.722	015.25	03.55
0600	03.49	34.194	27.22	4835.9	.080	00.817	020.61	03.44
0700	03.36	34.267	27.29	4840.4	.067	00.905	026.51	03.32
0800	03.20	34.315	27.34	4844.2	.061	00.988	032.90	03.14
1000	02.89	34.390	27.43	4852.0	.056	01.142	047.07	02.82
1200	02.60	34.445	27.50	4859.9	.056	01.282	062.89	02.52

STATION 110

TIME: 1924 DATE: 4-iv-62 LAT: 50° 00' N. LONG: 144° 56' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 270° Speed 5 AIR TEMP: Dry 42° Wet 41° BARO: 1007. mb.
CLOUD: Type As Ci Amt. 6 SEA: 270°-1 SWELL: 280°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	07.20*	33.431*	26.18	4847.2	.157*	
1940a	01.98	34.588	27.67	4895.5	.114	128.3
2450a	01.75	34.639	27.72	4922.6	.159	128.3
2957a	01.62	34.664	27.75	4950.8	.224	128.3
3448a	01.55	34.668	27.76	4978.8	.260	128.3
3961a	01.51	34.683	27.78	5008.4	.287	128.3
4165a	01.51	34.689	27.78	5020.4	.285	128.3

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.20	33.431	26.18	4847.2	.157	00.000	000.00	07.20
2000	01.95	34.595	27.67	4898.7	.120	01.471	128.74	01.81
2500	01.74	34.642	27.73	4925.4	.166	01.722	186.82	01.56
3000	01.61	34.664	27.75	4953.3	.227	01.959	254.00	01.39
3500	01.55	34.670	27.76	4981.8	.263	02.192	332.50	01.27
4000	01.51	34.684	27.78	5010.7	.287	02.426	423.33	01.18

Note: Interpolated data at 0 m should not be used.

STATION 111

TIME: 1853 DATE: 6-iv-62 LAT: 50° 00' N. LONG: 144° 55' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 270° Speed 16 AIR TEMP: Dry 42° Wet 38° BARO: 1026. mb.
CLOUD: Type Cu Amt. 3 SEA: 270°-3 SWELL: 280°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.80	32.602	25.58	4838.8	.647
0009a	05.98	32.574	25.66	4828.4	.645
0028c	05.92	32.577	25.67	4828.8	.648
0047a	05.73	32.586	25.70	4827.4	.641
0070c	05.70	32.586	25.71	4828.4	.635
0094a	05.66	32.593	25.72	4829.3	.640
0117c	04.34	33.016	26.20	4814.4	.596
0141a	04.29	33.282	26.41	4816.2	.529
0165c	04.68	33.738	26.73	4824.8	.368
0188b	04.49	33.804	26.81	4823.8	.314
0236c	04.20	33.847	26.87	4822.8	.261
0284a	03.92	33.881	26.93	4821.9	.220
0378a	03.67	33.971	27.02	4824.4	.160
0400	03.62*	33.989*	27.04	4825.1	.148*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.80	32.602	25.58	4838.8	.647	00.000	000.00	06.80
0010	05.98	32.574	25.66	4828.4	.645	00.024	000.01	05.98
0020	05.94	32.576	25.67	4828.6	.647	00.047	000.05	05.94
0030	05.90	32.578	25.68	4828.6	.647	00.071	000.11	05.89
0050	05.73	32.586	25.70	4827.5	.640	00.118	000.30	05.72
0075	05.69	32.588	25.71	4828.6	.636	00.176	000.67	05.69
0100	05.29	32.712	25.85	4825.1	.628	00.232	001.18	05.28
0125	04.32	33.110	26.27	4815.0	.572	00.281	001.74	04.31
0150	04.44	33.461	26.54	4819.5	.466	00.323	002.32	04.43
0175	04.59	33.768	26.77	4824.3	.344	00.358	002.91	04.58
0200	04.41	33.816	26.82	4823.5	.300	00.390	003.53	04.40
0250	04.11	33.858	26.89	4822.5	.248	00.452	004.95	04.10
0300	03.87	33.898	26.95	4822.3	.209	00.511	006.61	03.85
0400	03.62	33.989	27.04	4825.1	.148	00.622	010.58	03.59

STATION 112 (Composite)

TIME: 1849 DATE: 9-iv-62 LAT: 50° 00' N. LONG: 145° 01' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. var° Speed 3 AIR TEMP: Dry 47° Wet 45° BARO: 1025. mb.
CLOUD: Type Sc Amt. 7 SEA: °-0 SWELL: 270°-1 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	06.50	32.609	25.63	4834.9	.642	21.5
0010a	05.94	32.595	25.68	4828.1	.638	19.5
0030c	05.85	32.592	25.69	4828.0	.636	20.6
0050a	05.69	32.584	25.71	4827.1	.627	20.2
0075c	05.68	32.580	25.70	4828.4	.628	19.5
0100a	04.44	32.835	26.04	4814.1	.609	27.0
0125	04.31*	33.159	26.31	4815.1	.525	33.8
0150a	04.21	33.530	26.62	4816.6	.427	40.0
0175c	04.54	33.780	26.78	4823.6	.325	47.6
0200a	04.44	33.800	26.81	4823.8	.307	48.7
0250c	04.15	33.854	26.88	4823.0	.243	55.5
0300a	03.88	33.902	26.95	4822.4	.192	61.5
0400a	03.64	33.998	27.05	4825.4	.147	69.3
0476a	03.56	34.105	27.14	4829.2	.108	73.0
0720a	03.30	34.273	27.30	4840.7	.060	84.3
0963a	02.99	34.374	27.41	4851.2	.060	90.9
1207a	02.58	34.459	27.51	4860.1	.061	94.5
1454a	02.35	34.514	27.58	4871.7	.065	102.0
1957a	01.96	34.586	27.66	4896.2	.119	108.0
1977a*	01.95	34.592	27.67	4897.3	.113	116.0
2486a	01.71	34.637	27.72	4924.2	.170	113.0
2990a	01.60	34.666	27.76	4952.5	.234	100.0
3475a	01.54	34.680	27.77	4980.3	.263	100.0
3971a	01.51	34.688	27.78	5009.0	.291	108.0
4170a	01.51	34.693	27.78	5020.7	.286	106.0

*Depths 1977m to 4170m observed 1912/10-iv-62.

STATION 112 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.50	32.609	25.63	4834.9	.642	00.000	000.00	06.50
0010	05.94	32.595	25.68	4828.1	.638	00.024	000.01	05.94
0020	05.89	32.593	25.69	4827.9	.637	00.047	000.05	05.89
0030	05.85	32.592	25.69	4828.0	.636	00.070	000.11	05.85
0050	05.69	32.584	25.71	4827.1	.627	00.117	000.30	05.69
0075	05.68	32.580	25.70	4828.4	.628	00.175	000.67	05.67
0100	04.44	32.835	26.04	4814.1	.609	00.229	001.15	04.43
0125	04.31	33.159	26.31	4815.1	.525	00.275	001.69	04.31
0150	04.21	33.530	26.62	4816.6	.427	00.315	002.25	04.20
0175	04.54	33.780	26.78	4823.6	.325	00.350	002.82	04.53
0200	04.44	33.800	26.81	4823.8	.307	00.382	003.44	04.43
0250	04.15	33.854	26.88	4823.0	.243	00.444	004.87	04.13
0300	03.88	33.902	26.95	4822.4	.192	00.503	006.54	03.86
0400	03.64	33.998	27.05	4825.4	.147	00.614	010.49	03.61
0500	03.53	34.125	27.16	4830.3	.102	00.715	015.15	03.49
0600	03.41	34.199	27.23	4834.9	.081	00.808	020.41	03.37
0700	03.32	34.262	27.29	4839.7	.063	00.896	026.27	03.27
0800	03.19	34.310	27.34	4844.0	.060	00.979	032.67	03.13
1000	02.92	34.388	27.43	4852.4	.060	01.134	046.92	02.85
1200	02.59	34.457	27.51	4859.9	.061	01.274	062.67	02.51
1500	02.31	34.522	27.59	4873.9	.071	01.463	088.77	02.21
2000	01.94	34.594	27.67	4898.5	.116	01.742	138.78	01.80
2500	01.71	34.638	27.73	4924.9	.172	01.993	196.73	01.53
3000	01.60	34.666	27.76	4953.1	.235	02.228	263.57	01.37
3500	01.54	34.680	27.77	4981.7	.265	02.459	340.99	01.26
4000	01.51	34.689	27.78	5010.7	.290	02.689	430.65	01.18

STATION 113

TIME: 1848 DATE: 12-iv-62 LAT: 49° 59' N. LONG: 145° 00' W. SOUNDING: 2250 fms.
WEATHER: 62 WIND: Dir. 270° Speed 25 AIR TEMP: Dry 41° Wet 38° BARO: 1011. mb.
CLOUD: Type Sc Ns Amt. 6 SEA: 270°-6 SWELL: 300°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.30	32.602	25.65	4832.3	.644
0010a	05.98	32.586	25.67	4828.6	.647
0029c	05.95	32.584	25.67	4829.3	.640
0048a	05.94	32.578	25.67	4830.2	.636
0072c	05.73	32.583	25.70	4828.9	.629
0097a	05.67	32.584	25.71	4829.6	.635
0121c	05.28	32.654	25.81	4826.0	.620
0145a	03.86	33.180	26.38	4810.1	.521
0169c	04.18	33.579	26.66	4817.5	.406
0193a	04.53	33.766	26.77	4824.5	.334
0242c	04.28	33.834	26.85	4824.2	.267
0290a	03.99	33.885	26.92	4823.3	.212
0386a	03.72	33.988	27.03	4825.6	.156
0475a	03.60	34.068	27.11	4829.5	.114
0716a	03.28	34.274	27.30	4840.2	.058
0954a	03.00	34.372	27.41	4850.7	.060
1190a	02.68	34.445	27.49	4860.5	.057
1431a	02.41	34.497	27.56	4871.2	.064
1922a	02.00	34.586	27.66	4894.7	.107
2000	01.94*	34.598*	27.68	4898.6	.113*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.30	32.602	25.65	4832.3	.644	00.000	000.00	06.30
0010	05.98	32.586	25.67	4828.6	.647	00.024	000.01	05.98
0020	05.96	32.585	25.67	4828.9	.643	00.047	000.05	05.96
0030	05.95	32.584	25.67	4829.3	.640	00.070	000.11	05.95
0050	05.92	32.578	25.67	4830.1	.635	00.117	000.30	05.92
0075	05.72	32.583	25.70	4829.0	.630	00.176	000.68	05.72
0100	05.62	32.594	25.72	4829.1	.633	00.234	001.20	05.61
0125	05.03	32.748	25.91	4823.2	.602	00.289	001.83	05.02
0150	03.93	33.268	26.44	4811.7	.496	00.336	002.49	03.92
0175	04.27	33.628	26.69	4819.3	.387	00.374	003.11	04.26
0200	04.49	33.777	26.78	4824.4	.323	00.407	003.76	04.48
0250	04.23	33.843	26.87	4824.0	.257	00.470	005.21	04.21
0300	03.96	33.897	26.94	4823.5	.205	00.530	006.90	03.94
0400	03.70	34.002	27.04	4826.2	.149	00.642	010.88	03.67
0500	03.56	34.094	27.13	4830.6	.107	00.744	015.61	03.53
0600	03.42	34.185	27.22	4834.9	.082	00.840	020.97	03.38
0700	03.30	34.263	27.29	4839.4	.061	00.928	026.85	03.25
0800	03.17	34.312	27.34	4843.8	.059	01.011	033.24	03.12
1000	02.93	34.388	27.42	4852.6	.059	01.165	047.47	02.86
1200	02.67	34.447	27.50	4860.9	.057	01.307	063.43	02.59
1500	02.34	34.511	27.57	4874.4	.071	01.499	090.09	02.24
2000	01.94	34.598	27.68	4898.6	.113	01.782	140.47	01.81

STATION 6A

TIME: 1406 DATE: 13-iv-62 LAT: 49° 50' N. LONG: 142° 40' W. SOUNDING: 2150 fms.
WEATHER: 63 WIND: Dir. 095° Speed 16 AIR TEMP: Dry 42° Wet 42° BARO: 1001. mb.
CLOUD: Type Ns Amt. 8 SEA: 095°-3 SWELL: 270°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	06.80	32.493	25.50	4838.4	.000
0010c	06.82	32.579	25.56	4839.6	.000
0029c	06.80	32.601	25.58	4840.5	.000
0049a	06.74	32.596	25.58	4840.9	.000
0073c	06.48	32.605	25.62	4839.0	.000
0097a	05.03	32.875	26.01	4822.1	.000
0122c	04.82	33.222	26.31	4822.1	.000
0146a	05.62	33.693	26.59	4836.1	.000
0170c	05.50	33.819	26.70	4836.4	.000
0195c	05.16	33.848	26.77	4833.5	.000
0243c	04.46	33.870	26.86	4826.9	.000
0290a	04.17	33.917	26.93	4825.9	.000
0383a	03.98	33.999	27.01	4829.1	.000
0470a	03.85	34.087	27.10	4832.8	.000
0714a	03.46	34.260	27.27	4842.5	.000
0950a	03.05	34.368	27.40	4851.2	.000
1190a	02.69	34.442	27.49	4860.6	.000
1435a	02.40	34.500	27.56	4871.3	.000
1930a	02.00	34.578	27.66	4895.2	.000
2000	01.95*	34.587*	27.67	4898.7	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	06.80	32.493	25.50	4838.4	.000	00.000	000.00	06.80
0010	06.82	32.579	25.56	4839.6	.000	00.025	000.01	06.82
0020	06.81	32.592	25.57	4840.0	.000	00.049	000.05	06.81
0030	06.80	32.601	25.58	4840.5	.000	00.074	000.11	06.79
0050	06.73	32.596	25.59	4840.8	.000	00.122	000.31	06.72
0075	06.34	32.630	25.66	4837.4	.000	00.182	000.70	06.34
0100	05.00	32.921	26.05	4822.1	.000	00.237	001.18	05.00
0125	04.93	33.285	26.35	4824.0	.000	00.283	001.71	04.92
0150	05.60	33.715	26.61	4836.2	.000	00.323	002.27	05.59
0175	05.43	33.825	26.72	4835.8	.000	00.358	002.86	05.41
0200	05.08	33.851	26.78	4832.7	.000	00.392	003.50	05.06
0250	04.41	33.878	26.87	4826.7	.000	00.455	004.96	04.40
0300	04.15	33.927	26.94	4826.2	.000	00.515	006.63	04.13
0400	03.95	34.018	27.03	4829.8	.000	00.627	010.64	03.92
0500	03.79	34.113	27.12	4833.9	.000	00.731	015.43	03.76
0600	03.62	34.188	27.20	4837.8	.000	00.827	020.88	03.58
0700	03.48	34.252	27.27	4841.9	.000	00.918	026.92	03.43
0800	03.30	34.303	27.32	4845.5	.000	01.003	033.49	03.24
1000	02.97	34.385	27.42	4853.1	.000	01.160	047.96	02.90
1200	02.68	34.445	27.49	4861.1	.000	01.303	064.01	02.59
1500	02.34	34.512	27.57	4874.3	.000	01.496	090.71	02.24
2000	01.95	34.587	27.67	4898.7	.000	01.780	141.51	01.81

STATION 6

TIME: 2335 DATE: 13-iv-62 LAT: 49° 41' N. LONG: 140° 40' W. SOUNDING: 2165 fms.
WEATHER: 02 WIND: Dir. 040° Speed 25 AIR TEMP: Dry 46° Wet 43° BARO: 998. mb.
CLOUD: Type Sc Amt. 8 SEA: 040°-6 SWELL: 040°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.00	32.645	25.59	4841.6	.000
0009a	06.82	32.625	25.60	4839.7	.000
0027c	06.77	32.626	25.60	4840.1	.000
0045a	06.74	32.629	25.61	4840.8	.000
0067c	06.33	32.661	25.69	4836.8	.000
0090a	05.92	32.755	25.81	4833.2	.000
0112c	05.45	33.084	26.13	4829.5	.000
0134a	05.66	33.526	26.45	4835.3	.000
0158c	06.15	33.833	26.63	4844.4	.000
0182a	06.12	33.913	26.70	4845.8	.000
0229c	05.91	33.951	26.76	4845.9	.000
0278a	05.68	33.971	26.80	4845.9	.000
0375a	04.46	33.951	26.93	4835.0	.000
0488a	04.02	34.066	27.06	4836.1	.000
0741a	03.48	34.253	27.27	4844.4	.000
0984a	03.02	34.374	27.41	4852.8	.000
1231a	02.70	34.441	27.49	4863.2	.000
1479a	02.40	34.500	27.56	4873.9	.000
1989a	01.94	34.590	27.67	4897.9	.000
2000	01.93*	34.592*	27.67	4898.4	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.00	32.645	25.59	4841.6	.000	00.000	000.00	07.00
0010	06.82	32.625	25.60	4839.7	.000	00.024	000.01	06.82
0020	06.79	32.626	25.60	4839.9	.000	00.048	000.05	06.78
0030	06.76	32.627	25.60	4840.2	.000	00.073	000.11	06.76
0050	06.63	32.637	25.63	4839.7	.000	00.121	000.31	06.63
0075	06.17	32.697	25.74	4835.4	.000	00.179	000.68	06.17
0100	05.69	32.913	25.96	4831.4	.000	00.234	001.17	05.69
0125	05.58	33.354	26.33	4833.0	.000	00.281	001.71	05.57
0150	05.99	33.736	26.58	4841.5	.000	00.322	002.28	05.98
0175	06.13	33.891	26.68	4845.4	.000	00.358	002.89	06.11
0200	06.03	33.929	26.72	4845.8	.000	00.393	003.55	06.02
0250	05.81	33.960	26.78	4845.8	.000	00.460	005.10	05.79
0300	05.37	33.966	26.83	4843.0	.000	00.525	006.93	05.35
0400	04.35	33.979	26.96	4835.2	.000	00.646	011.25	04.32
0500	03.99	34.077	27.08	4836.5	.000	00.756	016.32	03.95
0600	03.75	34.158	27.16	4839.5	.000	00.857	022.00	03.71
0700	03.55	34.227	27.24	4842.9	.000	00.950	028.25	03.50
0800	03.36	34.286	27.30	4846.3	.000	01.038	034.99	03.30
1000	03.00	34.379	27.41	4853.5	.000	01.198	049.70	02.93
1200	02.74	34.433	27.48	4861.9	.000	01.342	066.02	02.65
1500	02.38	34.504	27.57	4874.8	.000	01.539	093.23	02.28
2000	01.93	34.592	27.67	4898.4	.000	01.825	144.12	01.79

STATION 5

TIME: 1324 DATE: 14-iv-62 LAT: 49° 26' N. LONG: 136° 40' W. SOUNDING: 2000 fms.
WEATHER: 02 WIND: Dir. 195° Speed 25 AIR TEMP: Dry 42° Wet 40° BARO: 992. mb.
CLOUD: Type Sc Amt. 6 SEA: 195°-6 SWELL: 200°-6 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.10	32.649	25.58	4842.9	.000
0010a	07.11	32.609	25.54	4843.4	.000
0030c	07.11	32.611	25.55	4844.6	.000
0050a	07.11	32.609	25.54	4845.8	.000
0075c	07.11	32.610	25.55	4847.3	.000
0100a	07.00	32.662	25.60	4847.5	.000
0125c	06.45	33.109	26.03	4843.6	.000
0150a	06.62	33.627	26.41	4849.3	.000
0175c	06.62	33.794	26.54	4851.4	.000
0200a	06.49	33.840	26.60	4851.4	.000
0250c	06.03	33.905	26.71	4848.6	.000
0300a	05.72	33.922	26.76	4847.5	.000
0400a	04.81	33.964	26.90	4841.4	.000
0488a	04.41	34.045	27.01	4841.4	.000
0737a	03.74	34.227	27.22	4847.7	.000
0977a	03.20	34.345	27.37	4854.8	.000
1221a	02.77	34.434	27.48	4863.6	.000
1470a	02.43	34.499	27.56	4873.8	.000
1963a	01.97	34.591	27.67	4896.8	.000
2000	01.94*	34.597*	27.68	4898.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.10	32.649	25.58	4842.9	.000	00.000	000.00	07.10
0010	07.11	32.609	25.54	4843.4	.000	00.025	000.01	07.11
0020	07.11	32.610	25.55	4844.0	.000	00.049	000.05	07.11
0030	07.11	32.611	25.55	4844.6	.000	00.074	000.11	07.11
0050	07.11	32.609	25.54	4845.8	.000	00.123	000.32	07.11
0075	07.11	32.610	25.55	4847.3	.000	00.185	000.71	07.10
0100	07.00	32.662	25.60	4847.5	.000	00.246	001.26	06.99
0125	06.45	33.109	26.03	4843.6	.000	00.302	001.90	06.44
0150	06.62	33.627	26.41	4849.3	.000	00.348	002.54	06.61
0175	06.62	33.794	26.54	4851.4	.000	00.388	003.21	06.60
0200	06.49	33.840	26.60	4851.4	.000	00.426	003.94	06.47
0250	06.03	33.905	26.71	4848.6	.000	00.498	005.60	06.01
0300	05.72	33.922	26.76	4847.5	.000	00.566	007.52	05.69
0400	04.81	33.964	26.90	4841.4	.000	00.694	012.10	04.78
0500	04.37	34.056	27.02	4841.7	.000	00.811	017.44	04.33
0600	04.07	34.136	27.11	4843.8	.000	00.917	023.44	04.03
0700	03.82	34.204	27.19	4846.6	.000	01.016	030.02	03.77
0800	03.58	34.261	27.26	4849.4	.000	01.108	037.11	03.53
1000	03.16	34.354	27.38	4855.6	.000	01.276	052.55	03.08
1200	02.80	34.427	27.47	4862.8	.000	01.425	069.40	02.72
1500	02.40	34.505	27.57	4875.1	.000	01.624	096.87	02.29
2000	01.94	34.597	27.68	4898.5	.000	01.909	147.67	01.80

STATION 3

TIME: 0917 DATE: 15-iv-62 LAT: 49° 01' N. LONG: 130° 40' W. SOUNDING: 1880 fms.
WEATHER: 03 WIND: Dir. 220° Speed 23 AIR TEMP: Dry 44° Wet 41° BARO: 1012. mb.
CLOUD: Type Cu Sc Amt. 5 SEA: 220°-5 SWELL: 240°-7 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	07.80	32.525	25.38	4851.4	.000
0010a	07.52	32.597	25.48	4848.7	.000
0030c	07.51	32.597	25.48	4849.7	.000
0050a	07.50	32.597	25.48	4850.8	.000
0075c	07.43	32.598	25.49	4851.4	.000
0100c	07.14	32.872	25.75	4850.2	.000
0125c	07.13	33.578	26.30	4854.2	.000
0150a	07.06	33.775	26.47	4855.6	.000
0175c	06.85	33.892	26.59	4854.8	.000
0200a	06.60	33.920	26.64	4853.1	.000
0250c	06.03	33.935	26.73	4848.7	.000
0300a	05.59	33.974	26.81	4846.0	.000
0400a	05.03	34.050	26.94	4844.7	.000
0477a	04.68	34.124	27.04	4844.8	.000
0723a	03.99	34.251	27.21	4850.4	.000
0963a	03.42	34.395	27.39	4857.3	.000
1202a	02.86	34.455	27.48	4863.8	.000
1452a	02.44	34.519	27.57	4872.9	.000
1944a	01.98	34.593	27.67	4895.8	.000
2000	01.94*	34.600*	27.68	4898.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.80	32.525	25.38	4851.4	.000	00.000	000.00	07.80
0010	07.52	32.597	25.48	4848.7	.000	00.026	000.01	07.52
0020	07.51	32.597	25.48	4849.2	.000	00.051	000.05	07.51
0030	07.51	32.597	25.48	4849.7	.000	00.076	000.12	07.51
0050	07.50	32.597	25.48	4850.8	.000	00.127	000.32	07.50
0075	07.43	32.598	25.49	4851.4	.000	00.190	000.73	07.42
0100	07.14	32.872	25.75	4850.2	.000	00.251	001.27	07.13
0125	07.13	33.578	26.30	4854.2	.000	00.301	001.84	07.12
0150	07.06	33.775	26.47	4855.6	.000	00.343	002.44	07.05
0175	06.85	33.892	26.59	4854.8	.000	00.382	003.08	06.83
0200	06.60	33.920	26.64	4853.1	.000	00.419	003.79	06.58
0250	06.03	33.935	26.73	4848.7	.000	00.489	005.41	06.01
0300	05.59	33.974	26.81	4846.0	.000	00.555	007.28	05.57
0400	05.03	34.050	26.94	4844.7	.000	00.679	011.69	05.00
0500	04.60	34.138	27.06	4845.1	.000	00.791	016.86	04.56
0600	04.30	34.194	27.14	4847.2	.000	00.895	022.71	04.25
0700	04.04	34.241	27.20	4849.8	.000	00.993	029.23	03.99
0800	03.79	34.302	27.27	4852.4	.000	01.084	036.29	03.73
1000	03.32	34.405	27.40	4858.2	.000	01.250	051.47	03.25
1200	02.86	34.455	27.48	4863.8	.000	01.396	067.96	02.78
1500	02.39	34.527	27.58	4875.1	.000	01.590	094.78	02.29
2000	01.94	34.600	27.68	4898.5	.000	01.870	144.74	01.80

STATION 2

TIME: 1718 DATE: 15-iv-62 LAT: 48° 51' N. LONG: 128° 40' W. SOUNDING: 1200 fms.
WEATHER: 02 WIND: Dir. 210° Speed 15 AIR TEMP: Dry 48° Wet 46° BARO: 1017. mb.
CLOUD: Type Cu Amt. 5 SEA: 210°-3 SWELL: 270°-5 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰
0000	08.30	
0009a	07.88	
0028c	07.86	
0046a	07.84	
0069c	07.37	
0093c	07.45	
0116c	07.25	
0140a	06.95	
0164c	06.60	
0188a	06.34	
0236c	05.77	
0285a	05.30	
0384a	04.85	
0453a	04.60	34.150
0703a	04.09	34.295
0956a	03.45	34.410
1196a	02.93	34.474
1444a	02.42	34.528
1936a	01.91	34.600

Salinity determinations for 0 to 384m depths unreliable.

STATION 1

TIME: 0156 DATE: 16-iv-62 LAT: 48° 42' N. LONG: 126° 40' W. SOUNDING: 500 fms.
WEATHER: 02 WIND: Dir. 140° Speed 12 AIR TEMP: Dry 52° Wet 50° BARO: 1022. mb.
CLOUD: Type Sc Amt. 6 SEA: 140°-2 SWELL: 240°-4 SECCHI DISC: m.

Depth m.	Temp. °C
0000	09.20
0009a	08.88
0027c	08.40
0044a	08.00
0066c	07.74
0088c	07.72
0110c	07.68
0132a	07.36
0155c	07.18
0177a	06.99
0221c	06.64
0265a	06.21
0353a	05.64

Salinity determinations unreliable.

STATION 1
Survey P-62-2

TIME: 0729 DATE: 23-v-62 LAT: 48° 41' N. LONG: 126° 40' W. SOUNDING: 1420 fms.
WEATHER: 50 WIND: Dir. 170° Speed 4 AIR TEMP: Dry 52° Wet 50° BARO: 1018. mb.
CLOUD: Type St Amt. 8 SEA: var°- 1 SWELL: 270°-3 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	11.20	31.114	23.74	4887.6	.000
0010b	10.58	31.233	23.94	4881.3	.000
0020a	09.60	32.195	24.85	4873.7	.000
0030c	08.49	32.494	25.26	4861.7	.000
0050c	07.66	32.603	25.46	4852.8	.000
0075a	07.87	33.318	25.99	4859.7	.000
0100c	07.82	33.683	26.29	4862.0	.000
0124c	07.62	33.841	26.44	4861.5	.000
0149a	07.33	33.882	26.51	4859.4	.000
0174c	06.96	33.916	26.59	4856.3	.000
0199c	06.74	33.935	26.64	4855.0	.000
0249c	06.25	33.982	26.74	4851.7	.000
0298a	05.81	33.987	26.80	4848.8	.000
0398c	05.08	34.042	26.93	4845.2	.000
0498c	04.82	34.140	27.04	4848.0	.000
0749a	04.08	34.304	27.25	4853.4	.000
1000a	03.46	34.411	27.39	4860.1	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	11.20	31.114	23.74	4887.6	.000	00.000	000.00	11.20
0010	10.58	31.233	23.94	4881.3	.000	00.041	000.02	10.58
0020	09.60	32.195	24.85	4873.7	.000	00.077	000.07	09.60
0030	08.49	32.494	25.26	4861.7	.000	00.106	000.15	08.49
0050	07.66	32.603	25.46	4852.8	.000	00.159	000.36	07.66
0075	07.87	33.318	25.99	4859.7	.000	00.217	000.72	07.86
0100	07.82	33.683	26.29	4862.0	.000	00.264	001.15	07.81
0125	07.61	33.843	26.44	4861.4	.000	00.307	001.64	07.60
0150	07.31	33.883	26.52	4859.3	.000	00.347	002.20	07.30
0175	06.95	33.917	26.59	4856.2	.000	00.385	002.83	06.93
0200	06.73	33.936	26.64	4854.9	.000	00.422	003.54	06.71
0250	06.24	33.982	26.74	4851.6	.000	00.492	005.16	06.22
0300	05.79	33.988	26.80	4848.7	.000	00.558	007.04	05.77
0400	05.07	34.044	26.93	4845.3	.000	00.683	011.49	05.04
0500	04.81	34.142	27.04	4848.0	.000	00.797	016.74	04.77
0600	04.48	34.215	27.13	4849.8	.000	00.902	022.66	04.44
0700	04.20	34.277	27.21	4852.1	.000	01.000	029.17	04.15
0800	03.94	34.328	27.28	4854.6	.000	01.091	036.18	03.88
1000	03.46	34.411	27.39	4860.1	.000	01.257	051.47	03.39

STATION 2

TIME: 1502 DATE: 23-v-62 LAT: 48° 41' N. LONG: 128° 40' W. SOUNDING: 1125 fms.
WEATHER: 01 WIND: Dir. 030° Speed 10 AIR TEMP: Dry 54° Wet 53° BARO: 1019. mb.
CLOUD: Type Cu Ac Amt. 4 SEA: °- 0 SWELL: 270°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	09.90	32.551	25.08	4877.5	.000
0010a	09.56	32.552	25.14	4873.9	.000
0020b	09.30	32.551	25.18	4871.3	.000
0030a	09.13	32.561	25.21	4869.9	.000
0050c	08.33	32.553	25.33	4861.1	.000
0075a	07.34	32.993	25.81	4851.7	.000
0100c	07.24	33.585	26.29	4854.2	.000
0125c	07.16	33.795	26.47	4855.5	.000
0150a	06.90	33.881	26.57	4853.9	.000
0175c	06.54	33.911	26.64	4850.8	.000
0200c	06.26	33.916	26.69	4848.7	.000
0250c	05.82	33.940	26.76	4845.9	.000
0299a	05.49	33.982	26.83	4844.6	.000
0397c	04.78	34.042	26.96	4841.1	.000
0497c	04.32	34.097	27.06	4840.9	.000
0748b	03.74	34.274	27.26	4848.5	.000
0999b	03.34	34.428	27.42	4858.4	.000
1248c	02.80	34.481	27.51	4865.8	.000
1499	02.46*	34.533	27.58	4876.0	.000
2000a	01.92	34.588	27.67	4898.2	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.90	32.551	25.08	4877.5	.000	00.000	000.00	09.90
0010	09.56	32.552	25.14	4873.9	.000	00.029	000.01	09.56
0020	09.30	32.551	25.18	4871.3	.000	00.057	000.06	09.30
0030	09.13	32.561	25.21	4869.9	.000	00.085	000.13	09.13
0050	08.33	32.553	25.33	4861.1	.000	00.140	000.35	08.33
0075	07.34	32.993	25.81	4851.7	.000	00.201	000.74	07.33
0100	07.24	33.585	26.29	4854.2	.000	00.251	001.18	07.23
0125	07.16	33.795	26.47	4855.5	.000	00.293	001.66	07.15
0150	06.90	33.881	26.57	4853.9	.000	00.332	002.21	06.89
0175	06.54	33.911	26.64	4850.8	.000	00.369	002.82	06.52
0200	06.26	33.916	26.69	4848.7	.000	00.404	003.51	06.24
0250	05.82	33.940	26.76	4845.9	.000	00.473	005.09	05.80
0300	05.48	33.983	26.83	4844.6	.000	00.538	006.93	05.46
0400	04.76	34.044	26.97	4841.1	.000	00.659	011.25	04.73
0500	04.31	34.100	27.06	4841.0	.000	00.770	016.36	04.27
0600	04.05	34.178	27.15	4843.7	.000	00.873	022.15	04.01
0700	03.83	34.245	27.23	4846.9	.000	00.968	028.52	03.78
0800	03.65	34.310	27.30	4850.5	.000	01.058	035.38	03.59
1000	03.34	34.428	27.42	4858.5	.000	01.219	050.22	03.27
1200	02.90	34.472	27.49	4864.3	.000	01.363	066.43	02.81
1500	02.46	34.533	27.58	4876.1	.000	01.556	093.16	02.35
2000	01.92	34.588	27.67	4898.2	.000	01.839	143.64	01.78

STATION 3

TIME: 2300 DATE: 23-v-62 LAT: 49° 01' N. LONG: 130° 40' W. SOUNDING: 1880 fms.
WEATHER: 01 WIND: Dir. 010° Speed 3 AIR TEMP: Dry 52° Wet 49° BARO: 1021. mb.
CLOUD: Type Cu Amt. 1 SEA: °-0 SWELL: 290°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	10.60	32.361	24.81	4885.1	.000
0010b	09.40	32.340	25.00	4871.2	.000
0020b	09.20	32.338	25.03	4869.3	.000
0030a	08.50	32.456	25.23	4861.7	.000
0050c	07.79	32.545	25.40	4854.3	.000
0074b	07.67	32.592	25.45	4854.3	.000
0099c	07.13	32.879	25.75	4850.0	.000
0124c	07.14	33.444	26.20	4853.8	.000
0148b	07.01	33.715	26.43	4854.6	.000
0173c	06.77	33.827	26.55	4853.4	.000
0198c	06.36	33.883	26.65	4849.7	.000
0248c	05.59	33.905	26.76	4842.6	.000
0297a	05.16	33.931	26.83	4839.9	.000
0397c	04.59	34.005	26.95	4838.3	.000
0496c	04.36	34.122	27.07	4841.5	.000
0748a	03.59	34.281	27.28	4846.5	.000
0999a	03.12	34.380	27.40	4855.1	.000
1250c	02.76	34.470	27.51	4865.3	.000
1500c	02.36	34.525	27.58	4874.6	.000
2000c	01.94	34.597	27.68	4898.5	.000
2483c	01.73	34.632	27.72	4924.3	.000
2500	01.72*	34.633*	27.72	4925.2	.000

STATION 3

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	10.60	32.361	24.81	4885.1	.000	00.000	000.00	10.60
0010	09.40	32.340	25.00	4871.2	.000	00.031	000.02	09.40
0020	09.20	32.338	25.03	4869.3	.000	00.061	000.06	09.20
0030	08.50	32.456	25.23	4861.7	.000	00.089	000.13	08.50
0050	07.79	32.545	25.40	4854.3	.000	00.143	000.35	07.79
0075	07.65	32.605	25.47	4854.1	.000	00.208	000.77	07.64
0100	07.13	32.904	25.77	4850.2	.000	00.268	001.30	07.12
0125	07.13	33.456	26.21	4853.8	.000	00.319	001.89	07.12
0150	06.99	33.725	26.44	4854.5	.000	00.363	002.50	06.98
0175	06.74	33.832	26.56	4853.1	.000	00.402	003.16	06.72
0200	06.33	33.884	26.65	4849.4	.000	00.439	003.87	06.31
0250	05.57	33.906	26.76	4842.5	.000	00.509	005.46	05.55
0300	05.14	33.934	26.84	4839.8	.000	00.574	007.30	05.12
0400	04.58	34.009	26.96	4838.4	.000	00.695	011.62	04.55
0500	04.34	34.125	27.08	4841.6	.000	00.805	016.70	04.31
0600	04.00	34.196	27.17	4843.1	.000	00.906	022.40	03.96
0700	03.71	34.255	27.25	4845.2	.000	01.000	028.64	03.66
0800	03.48	34.304	27.31	4848.1	.000	01.087	035.37	03.42
1000	03.12	34.380	27.40	4855.2	.000	01.248	050.20	03.05
1200	02.83	34.454	27.49	4863.2	.000	01.394	066.59	02.74
1500	02.36	34.525	27.58	4874.6	.000	01.587	093.30	02.26
2000	01.94	34.597	27.68	4898.5	.000	01.867	143.36	01.80
2500	01.72	34.633	27.72	4925.2	.000	02.119	201.58	01.54

STATION 4

TIME: 0624 DATE: 24-v-62 LAT: 49° 10' N. LONG: 132° 40' W. SOUNDING: 1820 fms.
WEATHER: 50 WIND: Dir. 290° Speed 10 AIR TEMP: Dry 48° Wet 46° BARO: 1021. mb.
CLOUD: Type St Amt. 8 SEA: 290°-1 SWELL: 275°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	09.90	32.598	25.12	4877.6	.000
0010a	09.34	32.588	25.20	4871.4	.000
0020c	09.12	32.594	25.24	4869.3	.000
0030a	09.01	32.590	25.25	4868.5	.000
0049c	08.10	32.576	25.38	4858.2	.000
0074b	07.73	32.598	25.45	4855.1	.000
0098a	07.16	32.632	25.56	4849.4	.000
0123c	07.12	32.907	25.78	4851.4	.000
0148b	06.96	33.842	26.53	4854.4	.000
0172c	06.56	33.889	26.62	4850.8	.000
0197c	06.24	33.910	26.68	4848.2	.000
0246c	05.50	33.904	26.77	4841.3	.000
0296b	05.22	33.925	26.82	4840.6	.000
0397c	04.50	33.961	26.93	4836.9	.000
0497c	04.42	34.079	27.03	4842.2	.000
0749a	03.62	34.254	27.25	4846.8	.000
1000a	03.13	34.379	27.40	4855.3	.000
1244c	02.72	34.471	27.51	4864.4	.000
1486a	02.38	34.501	27.56	4874.0	.000
1985c	01.96	34.585	27.66	4897.9	.000
2482c	01.70	34.632	27.72	4923.8	.000
2500	01.69*	34.634*	27.72	4924.7	.000

STATION 4

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.90	32.598	25.12	4877.6	.000	00.000	000.00	09.90
0010	09.34	32.588	25.20	4871.4	.000	00.028	000.01	09.34
0020	09.12	32.594	25.24	4869.3	.000	00.056	000.06	09.12
0030	09.01	32.590	25.25	4868.5	.000	00.084	000.13	09.01
0050	08.08	32.577	25.38	4858.1	.000	00.138	000.35	08.08
0075	07.70	32.600	25.46	4854.8	.000	00.202	000.76	07.70
0100	07.16	32.656	25.58	4849.5	.000	00.265	001.32	07.15
0125	07.11	32.988	25.84	4851.7	.000	00.323	001.99	07.09
0150	06.92	33.846	26.54	4854.1	.000	00.370	002.64	06.91
0175	06.52	33.892	26.63	4850.5	.000	00.407	003.26	06.50
0200	06.19	33.910	26.69	4847.7	.000	00.443	003.95	06.17
0250	05.48	33.906	26.77	4841.2	.000	00.511	005.52	05.46
0300	05.19	33.927	26.83	4840.4	.000	00.576	007.35	05.16
0400	04.50	33.965	26.93	4837.1	.000	00.699	011.74	04.47
0500	04.41	34.082	27.04	4842.3	.000	00.812	016.97	04.37
0600	04.05	34.159	27.13	4843.6	.000	00.917	022.87	04.01
0700	03.75	34.225	27.22	4845.6	.000	01.014	029.30	03.70
0800	03.51	34.282	27.29	4848.4	.000	01.103	036.21	03.45
1000	03.13	34.379	27.40	4855.3	.000	01.267	051.23	03.06
1200	02.79	34.456	27.49	4862.7	.000	01.412	067.57	02.70
1500	02.37	34.504	27.57	4874.7	.000	01.607	094.55	02.26
2000	01.95	34.587	27.67	4898.7	.000	01.893	145.72	01.81
2500	01.69	34.634	27.72	4924.7	.000	02.146	204.13	01.51

STATION 5

TIME: 2036 DATE: 24-v-62 LAT: 49° 26' N. LONG: 136° 40' W. SOUNDING: 2000 fms.
WEATHER: 11 WIND: Dir. 270° Speed 10 AIR TEMP: Dry 53° Wet 51° BARO: 1025. mb.
CLOUD: Type St Amt. 8 SEA: 270°-2 SWELL: 300°-2 SECCHI DISC: 17 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	09.50	32.555	25.15	4872.6	.000
0010a	08.51	32.549	25.30	4861.0	.000
0020b	08.33	32.543	25.32	4859.3	.000
0030a	08.30	32.545	25.33	4859.5	.000
0049c	07.42	32.560	25.46	4849.5	.000
0074b	07.17	32.597	25.53	4847.9	.000
0098a	06.82	32.648	25.61	4845.0	.000
0123a	06.59	32.818	25.78	4844.2	.000
0148b	06.65	33.317	26.16	4848.4	.000
0172c	06.64	33.628	26.41	4850.9	.000
0197c	06.47	33.795	26.56	4850.8	.000
0246c	05.68	33.874	26.72	4843.6	.000
0296a	05.04	33.877	26.80	4838.0	.000
0390c	04.46	33.948	26.92	4835.9	.000
0487c	04.28	34.036	27.01	4839.6	.000
0736a	03.70	34.241	27.24	4847.1	.000
0986a	03.10	34.340	27.37	4853.9	.000
1233c	02.78	34.429	27.47	4864.4	.000
1480a	02.42	34.494	27.55	4874.2	.000
1980c	02.00	34.583	27.66	4898.2	.000
2480a	01.70	34.634	27.72	4923.6	.000
2980a	01.58	34.660	27.75	4951.6	.000
3000	01.58*	34.661*	27.75	4952.7	.000

STATION 5

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.50	32.555	25.15	4872.6	.000	00.000	000.00	09.50
0010	08.51	32.549	25.30	4861.0	.000	00.028	000.01	08.51
0020	08.33	32.543	25.32	4859.3	.000	00.055	000.06	08.33
0030	08.30	32.545	25.33	4859.5	.000	00.082	000.12	08.30
0050	07.41	32.562	25.47	4849.5	.000	00.134	000.34	07.40
0075	07.15	32.599	25.53	4847.8	.000	00.197	000.74	07.15
0100	06.80	32.663	25.63	4844.9	.000	00.258	001.29	06.79
0125	06.60	32.861	25.81	4844.5	.000	00.316	001.95	06.58
0150	06.65	33.345	26.18	4848.6	.000	00.367	002.67	06.64
0175	06.62	33.649	26.43	4850.8	.000	00.411	003.40	06.60
0200	06.42	33.800	26.57	4850.3	.000	00.451	004.16	06.40
0250	05.62	33.874	26.73	4843.1	.000	00.522	005.81	05.60
0300	05.01	33.880	26.81	4837.8	.000	00.589	007.68	04.99
0400	04.44	33.958	26.93	4836.3	.000	00.712	012.09	04.41
0500	04.24	34.049	27.03	4839.9	.000	00.826	017.34	04.21
0600	03.99	34.139	27.13	4842.6	.000	00.931	023.27	03.94
0700	03.77	34.216	27.21	4845.9	.000	01.029	029.76	03.72
0800	03.53	34.269	27.27	4848.6	.000	01.120	036.75	03.47
1000	03.08	34.346	27.38	4854.5	.000	01.286	052.07	03.01
1200	02.82	34.418	27.46	4863.0	.000	01.436	069.00	02.74
1500	02.40	34.498	27.56	4875.1	.000	01.637	096.76	02.30
2000	01.99	34.585	27.66	4899.2	.000	01.927	148.53	01.85
2500	01.69	34.635	27.72	4924.8	.000	02.181	207.16	01.52
3000	01.58	34.661	27.75	4952.7	.000	02.417	274.07	01.35

STATION 6

TIME: 1153 DATE: 25-v-62 LAT: 49° 40' N. LONG: 140° 40' W. SOUNDING: 2165 fms.
WEATHER: 02 WIND: Dir. 200° Speed 10 AIR TEMP: Dry 46° Wet 44° BARO: 1028. mb.
CLOUD: Type Ns Sc Amt. 8 SEA: 200°-2 SWELL: 300°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	08.10	32.613	25.41	4855.5	.000
0010a	07.93	32.633	25.45	4854.0	.000
0020b	07.92	32.614	25.44	4854.4	.000
0030a	07.73	32.605	25.46	4852.5	.000
0050c	06.59	32.606	25.61	4839.0	.000
0075b	06.12	32.632	25.69	4834.4	.000
0100c	05.50	32.799	25.90	4828.3	.000
0125c	05.14	33.115	26.19	4826.2	.000
0150b	05.14	33.456	26.46	4829.0	.000
0174c	05.36	33.699	26.63	4834.3	.000
0199c	05.25	33.839	26.75	4834.9	.000
0249c	04.58	33.860	26.84	4828.9	.000
0299a	04.23	33.890	26.90	4827.1	.000
0398c	03.89	33.989	27.02	4828.7	.000
0497c	03.88	34.097	27.10	4834.9	.000
0748b	03.42	34.269	27.28	4844.0	.000
0998a	02.94	34.376	27.41	4852.5	.000
1246c	02.62	34.452	27.50	4863.0	.000
1478a	02.40	34.502*	27.56	4873.8	.000
2000c	01.97	34.591	27.67	4899.0	.000
2500c	01.68	34.637	27.73	4924.6	.000
3000a	01.55	34.665	27.76	4952.3	.000
3488a	01.52	34.676	27.77	4980.7	.000
3500	01.52*	34.676*	27.77	4981.4	.000

STATION 6

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	Δ_D	P.E.	Pot.Temp. °C
0000	08.10	32.613	25.41	4855.5	.000	00.000	000.00	08.10
0010	07.93	32.633	25.45	4854.0	.000	00.026	000.01	07.93
0020	07.92	32.614	25.44	4854.4	.000	00.051	000.05	07.92
0030	07.73	32.605	25.46	4852.5	.000	00.077	000.12	07.73
0050	06.59	32.606	25.61	4839.0	.000	00.127	000.32	06.59
0075	06.12	32.632	25.69	4834.4	.000	00.186	000.70	06.11
0100	05.50	32.799	25.90	4828.3	.000	00.242	001.20	05.49
0125	05.14	33.115	26.19	4826.2	.000	00.292	001.77	05.13
0150	05.14	33.456	26.46	4829.0	.000	00.335	002.38	05.13
0175	05.36	33.705	26.63	4834.4	.000	00.374	003.02	05.34
0200	05.24	33.839	26.75	4834.8	.000	00.408	003.69	05.22
0250	04.57	33.861	26.84	4828.8	.000	00.473	005.18	04.55
0300	04.23	33.891	26.90	4827.1	.000	00.534	006.90	04.20
0400	03.89	33.991	27.02	4828.8	.000	00.649	010.99	03.86
0500	03.87	34.100	27.11	4835.0	.000	00.754	015.85	03.84
0600	03.67	34.176	27.19	4838.3	.000	00.853	021.39	03.63
0700	03.49	34.241	27.26	4842.1	.000	00.944	027.51	03.45
0800	03.31	34.294	27.32	4845.6	.000	01.031	034.15	03.25
1000	02.94	34.377	27.42	4852.6	.000	01.189	048.71	02.87
1200	02.67	34.439	27.49	4861.0	.000	01.332	064.84	02.59
1500	02.38	34.506	27.57	4874.8	.000	01.527	091.81	02.28
2000	01.97	34.591	27.67	4899.0	.000	01.813	142.90	01.83
2500	01.68	34.637	27.73	4924.6	.000	02.065	200.99	01.50
3000	01.55	34.665	27.76	4952.3	.000	02.298	267.18	01.33
3500	01.52	34.676	27.77	4981.4	.000	02.527	344.14	01.24

STATION 201

TIME: 1909 DATE: 27-v-62 LAT: 49° 54' N. LONG: 144° 58' W. SOUNDING: 2200 fms.
WEATHER: 01 WIND: Dir. 260° Speed 22 AIR TEMP: Dry 46° Wet 45° BARO: 1023. mb.
CLOUD: Type Sc Cb Amt. 6 SEA: 260°-3 SWELL: 260°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	07.90	32.562	25.40	4852.8	.622	19.2
0009a	07.68	32.548	25.42	4850.4	.622	19.7
0019a	07.66	32.547	25.42	4850.8	.628	20.0
0028a	07.67	32.545	25.42	4851.4	.632	20.4
0047c	07.04	32.555	25.51	4844.5	.632	22.0
0070b	06.18	32.568	25.63	4834.7	.632	22.2
0093c	05.96	32.577	25.67	4833.2	.632	28.7
0116c	04.76	32.836	26.01	4819.4	.601	37.5
0139b	04.23	33.193	26.35	4814.9	.540	49.2
0163c	04.37	33.596	26.65	4819.8	.415	56.6
0186c	04.41	33.700	26.73	4822.2	.369	69.5
0233c	04.18	33.813	26.85	4822.2	.275	76.4
0278a	04.08	33.864	26.90	4823.7	.229	93.0
0390c	03.71	33.991	27.04	4825.7	.145	103.8
0488c	03.73	34.096	27.12	4832.2	.117	128.2
0734a	03.37	34.283	27.30	4842.6	.057	138.6
0981a	02.91	34.381	27.42	4851.1	.055	152.4
1226c	02.62	34.456	27.51	4861.8	.062	157.5
1463c	02.35	34.510	27.57	4872.2	.073	168.4
1935a	01.23	34.590	27.72	4884.3	.115	
2000	01.10*	34.599*	27.74	4886.2	.120*	

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.90	32.562	25.40	4852.8	.622	00.000	000.00	07.90
0010	07.68	32.548	25.42	4850.5	.623	00.026	000.01	07.68
0020	07.66	32.547	25.42	4850.9	.629	00.052	000.05	07.66
0030	07.59	32.546	25.43	4850.5	.632	00.078	000.12	07.59
0050	06.91	32.557	25.53	4843.0	.632	00.128	000.33	06.91
0075	06.13	32.570	25.64	4834.3	.632	00.189	000.72	06.12
0100	05.57	32.661	25.78	4828.7	.622	00.247	001.23	05.56
0125	04.54	32.983	26.15	4817.5	.576	00.299	001.83	04.53
0150	04.30	33.385	26.49	4817.2	.480	00.342	002.43	04.29
0175	04.39	33.652	26.70	4821.1	.390	00.379	003.05	04.38
0200	04.34	33.736	26.77	4822.1	.339	00.413	003.70	04.32
0250	04.14	33.833	26.87	4822.8	.257	00.477	005.16	04.12
0300	04.00	33.892	26.93	4824.0	.210	00.536	006.85	03.98
0400	03.71	34.003	27.04	4826.4	.142	00.648	010.84	03.68
0500	03.71	34.107	27.13	4832.7	.113	00.751	015.59	03.67
0600	03.55	34.190	27.21	4836.7	.087	00.847	021.00	03.51
0700	03.41	34.261	27.28	4841.0	.064	00.937	026.95	03.36
0800	03.23	34.312	27.34	4844.7	.056	01.020	033.41	03.18
1000	02.89	34.387	27.43	4851.9	.056	01.175	047.65	02.82
1200	02.65	34.449	27.50	4860.7	.061	01.316	063.52	02.57
1500	02.25	34.517	27.59	4873.0	.077	01.506	089.76	02.15
2000	01.10	34.599	27.74	4886.2	.120	01.759	134.28	00.97

STATION 202 (Composite)

TIME: 1908 DATE: 29-v-62 LAT: 50° 01' N. LONG: 145° 02' W. SOUNDING: 2210 fms.
WEATHER: 60 WIND: Dir. 290° Speed 20 AIR TEMP: Dry 44° Wet 42° BARO: 1017. mb.
CLOUD: Type Ns Cb Amt. 8 SEA: 290°-4 SWELL: 290°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	07.60	32.564	25.44	4849.0	.628	19.2
0010a	07.31	32.551	25.47	4845.8	.630	19.9
0020a	07.32	32.553	25.47	4846.5	.630	20.1
0030a	07.31	32.551	25.47	4847.0	.632	19.8
0050c	06.19	32.564	25.63	4833.6	.640	21.0
0074a	06.00	32.571	25.66	4832.5	.633	21.8
0099c	05.04	32.706	25.88	4821.7	.617	26.8
0124c	04.48	33.020	26.19	4816.8	.583	31.3
0148b	04.29	33.450	26.55	4817.3	.461	45.6
0173c	04.25	33.659	26.72	4819.0	.384	55.9
0198c	04.16	33.739	26.79	4819.6	.334	63.1
0248c	04.08	33.834	26.87	4821.8	.252	74.0
0297a	03.86	33.893	26.94	4821.9	.195	83.2
0393c	03.72	34.012	27.05	4826.1	.146	92.0
0491c	03.76	34.122	27.13	4832.9	.108	104.1
0738a	03.28	34.276	27.30	4841.5	.068	123.6
0984a	02.92	34.376	27.42	4851.4	.049	135.1
1229c	02.60	34.452	27.51	4861.7	.059	146.1
1484a	02.31	34.505	27.57	4872.9	.073	153.4
1943a*	01.95	34.585	27.66	4895.3	.123	
1989a	01.95	34.579	27.66	4898.0	.116	159.2
2461c*	01.76	34.618	27.71	4923.3	.188	153.8
2980a	01.58	34.563	27.68	4951.2	.227	154.0
3469c	01.56	34.666	27.76	4980.2	.266	155.0
3981a	01.49	34.674	27.77	5009.3	.294	153.7
4193a	01.49	34.678	27.77	5021.7	.345	155.3

*Depths 1943 and 2461 to 4193 m observed 1911/31-v-62.

STATION 202 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	07.60	32.564	25.44	4849.0	.628	00.000	000.00	07.60
0010	07.31	32.551	25.47	4845.8	.630	00.026	000.01	07.31
0020	07.32	32.553	25.47	4846.5	.630	00.051	000.05	07.32
0030	07.31	32.551	25.47	4847.0	.632	00.076	000.12	07.31
0050	06.19	32.564	25.63	4833.6	.640	00.126	000.32	06.19
0075	05.96	32.577	25.67	4832.1	.632	00.185	000.70	05.95
0100	05.02	32.720	25.89	4821.5	.615	00.241	001.20	05.01
0125	04.47	33.039	26.20	4816.8	.577	00.291	001.77	04.46
0150	04.29	33.468	26.56	4817.4	.454	00.333	002.36	04.28
0175	04.24	33.666	26.72	4819.1	.380	00.369	002.95	04.23
0200	04.16	33.743	26.79	4819.7	.330	00.402	003.59	04.14
0250	04.07	33.837	26.88	4821.8	.249	00.465	005.03	04.05
0300	03.85	33.897	26.95	4822.0	.193	00.524	006.70	03.83
0400	03.72	34.021	27.06	4826.6	.143	00.634	010.64	03.70
0500	03.74	34.129	27.14	4833.2	.106	00.736	015.33	03.70
0600	03.52	34.198	27.22	4836.4	.088	00.831	020.68	03.48
0700	03.34	34.256	27.28	4840.0	.073	00.919	026.60	03.29
0800	03.18	34.304	27.34	4843.9	.063	01.003	033.05	03.12
1000	02.90	34.382	27.42	4852.1	.050	01.158	047.35	02.83
1200	02.63	34.444	27.50	4860.4	.058	01.300	063.30	02.55
1500	02.30	34.508	27.58	4873.7	.075	01.492	089.86	02.19
2000	01.95	34.580	27.66	4898.5	.118	01.777	140.79	01.81
2500	01.75	34.613	27.70	4925.4	.191	02.036	200.82	01.57
3000	01.58	34.568	27.68	4952.4	.229	02.295	274.55	01.35
3500	01.56	34.667	27.76	4981.9	.268	02.545	358.52	01.28
4000	01.49	34.674	27.77	5010.4	.299	02.781	450.08	01.16

STATION 203

TIME: 1836 DATE: 1-vi-62 LAT: 50° 00' N. LONG: 145° 00' W. SOUNDING: 2200 fms.
WEATHER: 01 WIND: Dir. 355° Speed 10 AIR TEMP: Dry 50° Wet 46° BARO: 1025. mb.
CLOUD: Type Cu Amt. 3 SEA: 355°-1 SWELL: 270°-1 SECCHI DISC: 17 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	09.50	32.554	25.15	4872.6	.622
0010a	07.97	32.537	25.37	4854.1	.632
0020b	07.76	32.532	25.39	4852.1	.640
0030a	07.59	32.540	25.42	4850.5	.639
0050c	06.53	32.555	25.58	4838.1	.650
0075c	06.00	32.558	25.65	4832.6	.632
0100c	05.58	32.588	25.72	4828.6	.624
0125c	04.10	32.948	26.17	4811.3	.584
0150b	04.46	33.420	26.51	4819.6	.482
0175c	04.43	33.688	26.72	4821.7	.384
0200c	04.37	33.793	26.81	4822.8	.302
0250c	04.10	33.852	26.89	4822.3	.241
0300a	03.84	33.907	26.96	4821.9	.185
0397c	03.70	34.007	27.05	4826.1	.142
0400	03.70*	34.010*	27.05	4826.2	.141*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.50	32.554	25.15	4872.6	.622	00.000	000.00	09.50
0010	07.97	32.537	25.37	4854.1	.632	00.027	000.01	07.97
0020	07.76	32.532	25.39	4852.1	.640	00.054	000.05	07.76
0030	07.59	32.540	25.42	4850.5	.639	00.080	000.12	07.59
0050	06.53	32.555	25.58	4838.1	.650	00.130	000.33	06.53
0075	06.00	32.558	25.65	4832.6	.632	00.190	000.71	05.99
0100	05.58	32.588	25.72	4828.6	.624	00.249	001.24	05.57
0125	04.10	32.948	26.17	4811.3	.584	00.301	001.83	04.09
0150	04.46	33.420	26.51	4819.6	.482	00.344	002.44	04.45
0175	04.43	33.688	26.72	4821.7	.384	00.381	003.04	04.42
0200	04.37	33.793	26.81	4822.8	.302	00.413	003.67	04.36
0250	04.10	33.852	26.89	4822.3	.241	00.476	005.10	04.08
0300	03.84	33.907	26.96	4821.9	.185	00.534	006.76	03.82
0400	03.70	34.010	27.05	4826.2	.141	00.644	010.70	03.67

STATION 204

TIME: 1947 DATE: 5-vi-62 LAT: 50° 02' N. LONG: 144° 58' W. SOUNDING: 2200 fms.
WEATHER: 47 WIND: Dir. 248° Speed 12 AIR TEMP: Dry 48° Wet 47° BARO: 1007. mb.
CLOUD: Type Amt. 0 SEA: 250°-2 SWELL: 270°-3 SECCHI DISC: 13 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	09.60	32.555	25.13	4873.8	.620	19.1
0010a	07.94	32.537	25.37	4853.8	.632	19.0
0024a	07.88	32.539	25.38	4853.8	.630	19.4
0034a	07.85	32.537	25.39	4854.0	.632	18.8
0064c	07.60	32.541	25.42	4852.7	.632	19.1
0073b	06.45	32.565	25.60	4838.4	.634	20.6
0098c	05.85	32.568	25.67	4832.0	.626	22.4
0122c	04.68	32.797	25.99	4818.5	.604	28.6
0147b	04.08	33.225	26.39	4813.4	.518	40.7
0171c	04.45	33.625	26.67	4821.5	.405	50.5
0196c	04.42	33.779	26.79	4823.2	.321	61.4
0245c	04.16	33.841	26.87	4822.8	.245	70.6
0293a	03.91	33.898	26.94	4822.4	.194	79.8
0392c	03.68	33.996	27.04	4825.4	.146	94.0
0497c	03.76	34.113	27.13	4833.3	.103	104.7
0748a	03.28	34.274	27.30	4842.1	.066	125.0
1000a	02.87	34.371	27.42	4851.6	.060	137.3
1250a	02.54	34.449	27.51	4862.1	.054	145.3
1495c	02.32	34.505	27.57	4873.7	.077	155.0
1986a	01.92	34.579	27.66	4897.3	.128	162.4
2000	01.91*	34.581*	27.66	4898.0	.129*	

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.60	32.555	25.13	4873.8	.620	00.000	000.00	09.60
0010	07.94	32.537	25.37	4853.8	.632	00.027	000.01	07.94
0020	07.89	32.539	25.38	4853.8	.630	00.054	000.05	07.89
0030	07.86	32.538	25.38	4854.0	.631	00.080	000.12	07.86
0050	07.70	32.539	25.41	4853.1	.632	00.132	000.34	07.70
0075	06.40	32.565	25.60	4837.8	.633	00.195	000.74	06.39
0100	05.74	32.589	25.70	4830.7	.624	00.254	001.27	05.74
0125	04.60	32.852	26.04	4817.8	.593	00.309	001.89	04.59
0150	04.13	33.278	26.43	4814.5	.503	00.354	002.52	04.12
0175	04.44	33.651	26.69	4821.8	.391	00.392	003.15	04.43
0200	04.40	33.785	26.80	4823.1	.314	00.425	003.79	04.38
0250	04.13	33.847	26.88	4822.7	.239	00.488	005.23	04.11
0300	03.89	33.906	26.95	4822.6	.190	00.547	006.90	03.87
0400	03.69	34.006	27.05	4826.1	.142	00.657	010.85	03.66
0500	03.75	34.115	27.13	4833.3	.102	00.760	015.58	03.72
0600	03.54	34.187	27.21	4836.6	.086	00.856	020.99	03.50
0700	03.36	34.248	27.27	484000.2	.072	00.946	026.97	03.31
0800	03.19	34.296	27.33	4843.9	.065	01.030	033.47	03.13
1000	02.87	34.371	27.42	4851.6	.060	01.186	047.87	02.80
1200	02.60	34.435	27.49	4859.9	.055	01.329	063.91	02.52
1500	02.32	34.506	27.57	4873.9	.078	01.522	090.62	02.21
2000	01.91	34.581	27.66	4898.0	.129	01.806	141.45	01.77

STATION 205

TIME: 1902 DATE: 8-vi-62 LAT: 50° 02' N. LONG: 145° 03' W. SOUNDING: 2200 fms.
WEATHER: 60 WIND: Dir. 230° Speed 15 AIR TEMP: Dry 49° Wet 48° BARO: 1025. mb.
CLOUD: Type St Cb Amt. 8 SEA: 230°-1 SWELL: 270°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	08.40	32.531*	25.30	4858.9	.657
0010a	08.10	32.529	25.34	4855.8	.628
0020b	08.09	32.528	25.34	4856.2	.629
0030a	08.06	32.528	25.35	4856.4	.628
0050c	07.30	32.555	25.48	4848.0	.626
0074b	06.29	32.556	25.61	4836.3	.632
0099c	05.38	32.662	25.80	4826.1	.617
0124c	04.48	32.982	26.16	4816.6	.595
0148c	04.19	33.577	26.66	4816.4	.471
0173c	04.56	33.727	26.74	4823.5	.375
0198c	04.36	33.785	26.81	4822.5	.324
0248c	04.14	33.842	26.87	4822.7	.251
0297a	03.99	33.899	26.93	4823.7	.215
0397c	03.71	33.998	27.04	4826.2	.148
0400	03.70*	34.001*	27.04	4826.3	.146*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	08.40	32.531	25.30	4858.9	.657	00.000	000.00	08.40
0010	08.10	32.529	25.34	4855.8	.628	00.027	000.01	08.10
0020	08.09	32.528	25.34	4856.2	.629	00.053	000.05	08.09
0030	08.06	32.528	25.35	4856.4	.628	00.080	000.12	08.06
0050	07.30	32.555	25.48	4848.0	.626	00.132	000.34	07.30
0075	06.25	32.561	25.62	4835.9	.631	00.194	000.73	06.24
0100	05.34	32.676	25.82	4825.7	.616	00.252	001.25	05.33
0125	04.47	33.009	26.18	4816.6	.589	00.303	001.83	04.46
0150	04.22	33.590	26.67	4817.0	.463	00.344	002.40	04.21
0175	04.54	33.732	26.74	4823.5	.371	00.378	002.97	04.53
0200	04.35	33.788	26.81	4822.5	.321	00.411	003.60	04.34
0250	04.13	33.845	26.88	4822.7	.249	00.473	005.04	04.12
0300	03.98	33.902	26.94	4823.8	.213	00.532	006.71	03.96
0400	03.70	34.001	27.04	4826.3	.146	00.644	010.69	03.68

STATION 206 (Composite)

TIME: 1911 DATE: 12-vi-62 LAT: 50° 04' N. LONG: 144° 58' W. SOUNDING: 2200 fms.
WEATHER: 47 WIND: Dir. 150° Speed 16 AIR TEMP: Dry 51° Wet 50° BARO: 1028. mb.
CLOUD: Type Amt. 0 SEA: 150°-2 SWELL: 180°-1 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	08.90	32.528	25.22	4865.2	.609	19.0
0009a	08.42	32.520	25.29	4859.7	.628	18.7
0019b	08.39	32.521	25.29	4859.9	.628	18.7
0028a	08.36	32.521	25.30	4860.1	.624	18.7
0047c	07.40	32.543	25.45	4849.1	.631	19.6
0071b	06.38	32.560	25.60	4837.3	.631	20.9
0095c	05.86	32.582	25.68	4832.0	.621	23.2
0118c	04.45	32.977	26.16	4815.8	.544	31.6
0142c	04.18	33.432	26.54	4815.3	.506	40.6
0166c	04.55	33.712	26.73	4822.9	.375	54.6
0189c	04.39	33.774	26.79	4822.4	.321	61.9
0236c	04.08	33.838	26.88	4821.1	.256	71.2
0284a	04.02	33.897	26.93	4823.4	.211	78.0
0379a	03.73	33.978	27.02	4825.3	.152	91.0
0486c	03.70	34.083	27.11	4831.7	.121	96.8
0729a	03.35	34.265	27.29	4841.9	.067	116.5
0972a	02.92	34.365	27.41	4850.7	.063	121.8
1217a	02.58	34.466	27.52	4860.8	.062	127.4
1463c	02.38	34.503	27.56	4872.6	.068	157.6
1892a*	01.99	34.578	27.66	4892.8	.115	159.3
1961a	01.96	34.581	27.66	4896.5	.120	164.8
2401c*	01.80	34.624	27.71	4920.4	.170	161.3
2903a	01.61	34.656	27.75	4947.4	.220	161.3
3410c	01.57	34.674	27.77	4976.9	.260	158.9
3913a	01.50	34.686	27.78	5005.5	.295	158.9
4117a	01.49	34.686	27.78	5017.3	.301	154.9

*Depths 1892 and 2401 to 4117 m observed 1910/14-vi-62;
dissolved oxygen data from single determinations.

STATION 206 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	Δ_D	P.E.	Pot.Temp. °C
0000	08.90	32.528	25.22	4865.2	.609	00.000	000.00	08.90
0010	08.42	32.520	25.29	4859.7	.628	00.027	000.01	08.42
0020	08.39	32.521	25.29	4859.9	.627	00.055	000.06	08.38
0030	08.24	32.524	25.32	4858.7	.625	00.082	000.12	08.24
0050	07.25	32.545	25.48	4847.4	.631	00.134	000.34	07.25
0075	06.28	32.564	25.62	4836.3	.629	00.196	000.73	06.28
0100	05.53	32.675	25.80	4828.2	.603	00.254	001.25	05.52
0125	04.37	33.118	26.28	4815.6	.532	00.304	001.82	04.36
0150	04.31	33.530	26.61	4818.0	.460	00.344	002.39	04.30
0175	04.49	33.737	26.75	4822.7	.353	00.379	002.97	04.47
0200	04.31	33.790	26.81	4822.0	.305	00.412	003.60	04.30
0250	04.06	33.856	26.89	4821.8	.242	00.473	005.02	04.04
0300	03.97	33.912	26.95	4823.6	.200	00.532	006.68	03.94
0400	03.72	34.001	27.04	4826.5	.145	00.643	010.65	03.70
0500	03.68	34.096	27.12	4832.2	.117	00.747	015.42	03.64
0600	03.52	34.177	27.20	4836.3	.093	00.843	020.86	03.48
0700	03.39	34.247	27.27	4840.6	.072	00.933	026.86	03.34
0800	03.21	34.297	27.33	4844.3	.066	01.018	033.38	03.16
1000	02.88	34.378	27.42	4851.8	.063	01.174	047.76	02.81
1200	02.60	34.460	27.51	4860.0	.062	01.314	063.53	02.52
1500	02.34	34.510	27.57	4874.3	.073	01.505	089.89	02.24
2000	01.94	34.585	27.67	4898.6	.125	01.789	140.77	01.81
2500	01.76	34.631	27.72	4925.7	.181	02.045	199.90	01.58
3000	01.60	34.660	27.75	4953.1	.228	02.285	267.94	01.38
3500	01.56	34.676	27.77	4982.0	.267	02.518	346.30	01.28
4000	01.50	34.686	27.78	5010.5	.298	02.750	436.46	01.17

STATION 207

TIME: 1845 DATE: 15-vi-62 LAT: 50° 02' N. LONG: 144° 56' W. SOUNDING: 2200 fms.
WEATHER: 47 WIND: Dir. var° Speed 1 AIR TEMP: Dry ° Wet ° BARO: 1013. mb.
CLOUD: Type Amt. SEA: var°-1 SWELL: 240°-1 SECCHI DISC: 15 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	09.50	32.427	25.05	4872.1	.619
0010a	08.80	32.515	25.23	4864.5	.623
0020b	08.63	32.537	25.27	4863.0	.624
0030a	08.61	32.529	25.27	4863.3	.630
0050c	06.93	32.567	25.54	4843.3	.639
0074b	06.08	32.569	25.65	4833.6	.631
0099c	05.27	32.732	25.87	4824.9	.608
0124c	04.46	32.181	25.52	4813.2	.545
0149a	04.59	32.656	25.89	4818.3	.397
0174c	04.50	33.786	26.79	4823.0	.331
0198c	04.23	33.797	26.83	4820.8	.301
0248c	04.08	33.877	26.91	4822.0	.238*
0298a	03.90	33.924	26.96	4822.6	.186
0397a	03.72	34.016	27.05	4826.4	.139
0400	03.72*	34.018*	27.06	4826.5	.138*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.50	32.427	25.05	4872.1	.619	00.000	000.00	09.50
0010	08.80	32.515	25.23	4864.5	.623	00.029	000.01	08.80
0020	08.63	32.537	25.27	4863.0	.624	00.056	000.06	08.63
0030	08.61	32.529	25.27	4863.3	.630	00.083	000.13	08.61
0050	06.93	32.567	25.54	4843.3	.639	00.136	000.34	06.93
0075	06.04	32.576	25.66	4833.2	.630	00.196	000.73	06.04
0100	05.23	32.708	25.86	4824.4	.605	00.253	001.23	05.23
0125	04.47	32.202	25.54	4813.4	.539	00.311	001.91	04.46
0150	04.59	32.705	25.93	4818.5	.394	00.369	002.72	04.58
0175	04.49	33.786	26.79	4822.9	.330	00.411	003.41	04.48
0200	04.22	33.801	26.83	4820.8	.298	00.443	004.03	04.21
0250	04.07	33.879	26.91	4822.0	.236	00.504	005.43	04.05
0300	03.90	33.926	26.97	4822.7	.185	00.562	007.06	03.88
0400	03.72	34.018	27.06	4826.5	.138	00.671	010.98	03.69

STATION 208

TIME: 1840 DATE: 19-vi-62 LAT: 50° 07' N. LONG: 145° 03' W. SOUNDING: 2200 fms.
WEATHER: 01 WIND: Dir. var° Speed 5 AIR TEMP: Dry 50° Wet 48° BARO: 1025. mb.
CLOUD: Type Cu Sc Amt. 5 SEA: var°-1 SWELL: 60 °- SECCHI DISC: 22 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	09.60	32.544	25.12	4873.8	.618	17.8
0010a	09.11	32.527	25.19	4868.3	.620	18.0
0020b	08.56	32.530	25.28	4862.1	.640	18.6
0030a	08.50	32.528	25.28	4862.0	.635	18.4
0050c	06.97	32.576	25.54	4843.9	.644	18.7
0075b	06.18	32.577	25.64	4835.0	.634	21.1
0099c	05.04	32.757	25.92	4821.9	.610	26.3
0124c	04.11	33.119	26.30	4812.0	.550	36.1
0149b	04.52	33.639	26.67	4821.2	.416	49.1
0174c	04.43	33.771	26.79	4822.0	.342	58.1
0199c	04.32	33.816	26.83	4822.2	.296	58.3
0249c	03.99	33.853	26.90	4820.7	.242	72.3
0298a	03.92	33.911	26.95	4822.9	.201	79.4
0395a	03.71	34.014	27.05	4826.1	.140	91.8
0494a	03.62	34.126	27.15	4831.2	.102	116.1
0747a	03.25	34.290	27.32	4841.7	.062	124.3
0999a	02.85	34.394	27.44	4851.4	.060	137.3
1250a	02.56	34.457	27.51	4862.4	.064	144.5
1748c	02.15	34.556	27.63	4886.5	.098	159.1
2183a	01.85	34.605	27.69	4908.1	.150	160.7

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.60	32.544	25.12	4873.8	.618	00.000	000.00	09.60
0010	09.11	32.527	25.19	4868.3	.620	00.028	000.01	09.11
0020	08.56	32.530	25.28	4862.1	.640	00.056	000.06	08.56
0030	08.50	32.528	25.28	4862.0	.635	00.083	000.13	08.50
0050	06.97	32.576	25.54	4843.9	.644	00.135	000.34	06.97
0075	06.18	32.577	25.64	4835.0	.634	00.196	000.73	06.17
0100	05.00	32.773	25.93	4821.4	.607	00.252	001.23	04.99
0125	04.13	33.142	26.32	4812.4	.544	00.300	001.77	04.12
0150	04.52	33.645	26.68	4821.3	.413	00.339	002.32	04.51
0175	04.43	33.773	26.79	4822.0	.340	00.373	002.88	04.41
0200	04.31	33.817	26.84	4822.1	.295	00.405	003.49	04.30
0250	03.99	33.854	26.90	4820.7	.241	00.466	004.90	03.97
0300	03.92	33.913	26.95	4822.9	.200	00.524	006.55	03.89
0400	03.70	34.020	27.06	4826.4	.138	00.634	010.48	03.68
0500	03.61	34.131	27.16	4831.4	.101	00.735	015.13	03.57
0600	03.45	34.203	27.23	4835.3	.083	00.829	020.40	03.41
0700	03.31	34.264	27.29	4839.6	.068	00.916	026.25	03.26
0800	03.16	34.314	27.35	4843.6	.062	00.999	032.61	03.10
1000	02.85	34.394	27.44	4851.4	.060	01.152	046.68	02.78
1200	02.61	34.446	27.50	4860.1	.063	01.291	062.43	02.53
1500	02.34	34.511	27.57	4874.3	.082	01.483	088.99	02.23
2000	01.97	34.586	27.66	4898.9	.130	01.769	139.96	01.83

STATION 209

TIME: 1847 DATE: 22-vi-62 LAT: 50° 00' N. LONG: 145° 00' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 270° Speed 1 AIR TEMP: Dry 54° Wet 51° BARO: 1016. mb.
CLOUD: Type Cu Ac Amt. 7 SEA: °-0 SWELL: °-0 SECCHI DISC: 19 m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	10.60	32.553	24.96	4885.8	.608
0010a	09.30	32.535	25.16	4870.7	.624
0020b	08.61	32.533	25.27	4862.8	.640
0030a	08.51	32.532	25.28	4862.1	.636
0050c	07.44	32.562	25.46	4849.9	.646
0075a	06.35	32.572	25.62	4837.2	.634
0099c	05.66	32.599	25.72	4829.6	.622
0124c	04.36	32.920	26.12	4814.7	.594
0149b	04.20	33.318	26.45	4815.6	.504
0174c	04.46	33.667	26.70	4822.0	.392
0199c	04.38	33.785	26.80	4822.9	.343
0249c	04.12	33.837	26.87	4822.4	.263
0298a	03.90	33.913	26.95	4822.6	.203
0396a	03.73	34.019	27.06	4826.5	.146
0400	03.72*	34.023*	27.06	4826.6	.144*

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	10.60	32.553	24.96	4885.8	.608	00.000	000.00	10.60
0010	09.30	32.535	25.16	4870.7	.624	00.029	000.01	09.30
0020	08.61	32.533	25.27	4862.8	.640	00.057	000.06	08.61
0030	08.51	32.532	25.28	4862.1	.636	00.084	000.13	08.51
0050	07.44	32.562	25.46	4849.9	.646	00.137	000.34	07.44
0075	06.35	32.572	25.62	4837.2	.634	00.199	000.74	06.34
0100	05.60	32.613	25.74	4829.0	.621	00.258	001.26	05.59
0125	04.35	32.937	26.13	4814.7	.590	00.310	001.86	04.34
0150	04.21	33.333	26.46	4815.8	.499	00.354	002.48	04.20
0175	04.46	33.672	26.71	4822.0	.390	00.392	003.10	04.44
0200	04.37	33.786	26.80	4822.8	.341	00.425	003.73	04.36
0250	04.12	33.839	26.87	4822.4	.262	00.487	005.17	04.10
0300	03.90	33.915	26.96	4822.7	.202	00.546	006.84	03.88
0400	03.72	34.023	27.06	4826.6	.144	00.656	010.76	03.70

STATION 210 (Composite)

TIME: 1849 DATE: 26-vi-62 LAT: 49° 59' N. LONG: 145° 02' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 260° Speed 18 AIR TEMP: Dry 48° Wet 48° BARO: 1022. mb.
CLOUD: Type Sc St Amt. 8 SEA: 260°-3 SWELL: 280°-4 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 µg.at/l
0000	09.60	32.564	25.14	4873.9	.610	17.9
0010b	09.52	32.550	25.14	4873.4	.615	18.5
0020b	09.52	32.551	25.14	4874.0	.619	18.9
0030a	08.46	32.540	25.30	4861.5	.632	19.0
0050c	07.15	32.566	25.51	4846.2	.644	19.8
0075b	05.98	32.580	25.67	4832.4	.633	21.9
0100c	05.04	32.728	25.89	4821.8	.609	27.0
0125c	04.11	33.071	26.26	4811.9	.559	35.9
0150b	04.12	33.389	26.52	4814.8	.473	44.0
0175c	04.16	33.657	26.72	4817.9	.383	54.0
0200c	04.23	33.780	26.82	4820.8	.309	63.5
0249c	04.01	33.860	26.90	4821.0	.238	73.2
0298a	03.94	33.924	26.96	4823.2	.201	80.5
0380a	03.75	34.004	27.04	4825.7	.150	90.7
0475a	03.66	34.099	27.13	4830.5	.111	102.6
0725a	03.38	34.278	27.30	4842.1	.063	117.4
0972a	02.90	34.377	27.42	4850.4	.062	133.9
1205a	02.61	34.459	27.51	4860.5	.055	143.7
1444c	02.39	34.525	27.58	4871.8	.068	149.5
1930a	01.98	34.579	27.66	4894.9	.120	157.2
2000a*	01.95	34.587	27.67	4898.6	.126	155.1
2500a	01.74	34.630	27.72	4925.4	.180	156.2
3000a	01.58	34.661	27.75	4952.8	.232	156.2
3500c	01.56	34.674	27.77	4982.0	.272	154.6
4000a	01.50	34.689	27.78	5010.6	.295	154.6
4200a	01.50	34.688	27.78	5022.3	.301	156.2

*Depths 2000 to 4200 m observed 2020/27-vi-62.

STATION 210 (Composite)

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.60	32.564	25.14	4873.9	.610	00.000	000.00	09.60
0010	09.52	32.550	25.14	4873.4	.615	00.029	000.01	09.52
0020	09.52	32.551	25.14	4874.0	.619	00.057	000.06	09.52
0030	08.46	32.540	25.30	4861.5	.632	00.085	000.13	08.46
0050	07.15	32.566	25.51	4846.2	.644	00.137	000.34	07.15
0075	05.98	32.580	25.67	4832.4	.633	00.198	000.73	05.97
0100	05.04	32.728	25.89	4821.8	.609	00.254	001.23	05.03
0125	04.11	33.071	26.26	4811.9	.559	00.303	001.79	04.10
0150	04.12	33.389	26.52	4814.8	.473	00.345	002.38	04.11
0175	04.16	33.657	26.72	4817.9	.383	00.381	002.98	04.15
0200	04.23	33.780	26.82	4820.8	.309	00.414	003.61	04.22
0250	04.01	33.861	26.90	4821.1	.237	00.476	005.03	03.99
0300	03.93	33.926	26.96	4823.3	.200	00.534	006.67	03.91
0400	03.73	34.026	27.06	4826.7	.141	00.643	010.58	03.70
0500	03.63	34.121	27.15	4831.6	.105	00.745	015.25	03.59
0600	03.51	34.198	27.22	4836.2	.085	00.839	020.58	03.46
0700	03.40	34.263	27.28	4840.9	.067	00.928	026.50	03.35
0800	03.22	34.311	27.34	4844.5	.063	01.012	032.94	03.16
1000	02.86	34.388	27.43	4851.6	.061	01.166	047.14	02.79
1200	02.62	34.457	27.51	4860.2	.055	01.305	062.86	02.53
1500	02.34	34.532	27.59	4874.3	.075	01.493	088.88	02.23
2000	01.95	34.587	27.67	4898.6	.126	01.774	139.08	01.81
2500	01.74	34.630	27.72	4925.4	.180	02.029	198.04	01.56
3000	01.58	34.661	27.75	4952.8	.232	02.267	265.63	01.36
3500	01.56	34.674	27.77	4982.0	.272	02.500	343.87	01.28
4000	01.50	34.689	27.78	5010.6	.295	02.732	434.07	01.17

STATION 211

TIME: 1831 DATE: 28-vi-62 LAT: 50° 02' N. LONG: 145° 03' W. SOUNDING: 2200 fms.
WEATHER: 02 WIND: Dir. 260° Speed 10 AIR TEMP: Dry 50° Wet 49° BARO: 1022. mb.
CLOUD: Type Sc Amt. 8 SEA: 260°-2 SWELL: 260°-1 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	SiO_3 μg.at/l
0000	09.90	32.539	25.07	4877.4	.608	18.1
0010a	09.60	32.547	25.13	4874.4	.609	18.4
0019b	09.55	32.547	25.13	4874.3	.609	18.4
0029a	08.48	32.540	25.30	4861.7	.635	19.0
0048c	07.32	32.558	25.48	4848.2	.644	19.9
0072b	06.06	32.592	25.67	4833.3	.636	21.5
0097c	05.43	32.657	25.79	4826.6	.618	25.3
0121c	04.24	32.971	26.17	4813.1	.583	33.6
0145b	03.98	33.329	26.48	4812.3	.488	44.6
0169c	04.18	33.663	26.73	4817.8	.374	56.1
0193c	04.22	33.783	26.82	4820.3	.316	64.2
0242c	04.03	33.855	26.90	4820.9	.255	80.4
0290a	03.97	33.902	26.94	4823.1	.205	79.8
0366b	03.78	33.963	27.01	4825.2	.155	88.8
0454c	03.69	34.075	27.10	4829.6	.120	101.9
0682a	03.44	34.255	27.27	4840.3	.068	119.0
0925a	02.96	34.377	27.41	4848.5	.058	136.1
1168a	02.60	34.451	27.50	4858.1	.060	147.7
1414a	02.34	34.499	27.56	4869.2	.068	155.8
1866a	01.99	34.571	27.65	4891.2	.124	160.3

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	09.90	32.539	25.07	4877.4	.608	00.000	000.00	09.90
0010	09.60	32.547	25.13	4874.4	.609	00.029	000.01	09.60
0020	09.43	32.546	25.15	4872.9	.612	00.058	000.06	09.43
0030	08.41	32.541	25.31	4860.8	.636	00.085	000.13	08.40
0050	07.20	32.561	25.50	4846.7	.643	00.137	000.34	07.19
0075	05.97	32.601	25.68	4832.4	.634	00.198	000.73	05.97
0100	05.27	32.700	25.85	4824.8	.613	00.255	001.24	05.26
0125	04.19	33.035	26.23	4812.9	.566	00.305	001.81	04.19
0150	04.02	33.403	26.54	4813.5	.463	00.347	002.40	04.01
0175	04.19	33.694	26.75	4818.5	.359	00.383	002.99	04.18
0200	04.19	33.794	26.83	4820.3	.306	00.415	003.61	04.18
0250	04.02	33.863	26.90	4821.2	.246	00.476	005.02	04.00
0300	03.94	33.911	26.95	4823.3	.198	00.535	006.67	03.92
0400	03.74	34.009	27.05	4826.9	.141	00.645	010.63	03.72
0500	03.63	34.118	27.14	4831.7	.108	00.747	015.33	03.60
0600	03.52	34.198	27.22	4836.3	.084	00.842	020.67	03.48
0700	03.40	34.265	27.28	4840.9	.067	00.931	026.59	03.35
0800	03.19	34.319	27.35	4844.1	.063	01.014	032.99	03.13
1000	02.84	34.402	27.44	4851.3	.059	01.166	046.98	02.77
1200	02.56	34.458	27.51	4859.5	.061	01.304	062.49	02.48
1500	02.27	34.514	27.58	4873.2	.080	01.492	088.52	02.16

STATION 6 A

TIME: 1528 DATE: 29-vi-62 LAT: 49° 53' N. LONG: 142° 39' W. SOUNDING: 2200 fms.
WEATHER: 16 WIND: Dir. 320° Speed 11 AIR TEMP: Dry 49° Wet 47° BARO: 1024. mb.
CLOUD: Type Sc Cu Amt. 6 SEA: 320°-2 SWELL: 310°-1 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	10.30	32.619	25.07	4882.5	.000
0010b	10.23	32.598	25.06	4882.2	.000
0019b	10.19	32.596	25.07	4882.2	.000
0029a	10.00	32.587	25.09	4880.5	.000
0048c	07.38	32.611	25.51	4849.2	.000
0072b	06.93	32.746	25.68	4845.3	.000
0097c	06.30	32.631	25.67	4838.1	.000
0121c	05.12	33.011	26.11	4825.3	.000
0145a	05.26	33.348	26.36	4829.9	.000
0169c	05.84	33.743	26.60	4840.6	.000
0193c	05.71	33.854	26.71	4840.8	.000
0242c	05.05	33.873	26.80	4834.9	.000
0290a	04.56	33.882	26.86	4831.1	.000
0380a	04.00	33.962	26.98	4829.0	.000
0476a	03.90	34.083	27.09	4833.8	.000
0714a	03.46	34.262	27.28	4842.5	.000
0963b	03.01	34.365	27.40	4851.4	.000
1212a	02.63	34.446	27.50	4861.1	.000
1465a	02.40	34.496	27.56	4873.0	.000
1955a	01.96	34.625	27.70	4896.3	.000
2000	01.93*	34.635*	27.71	4898.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	10.30	32.619	25.07	4882.5	.000	00.000	000.00	10.30
0010	10.23	32.598	25.06	4882.2	.000	00.029	000.02	10.23
0020	10.17	32.595	25.07	4882.0	.000	00.059	000.06	10.17
0030	09.83	32.589	25.12	4878.6	.000	00.088	000.13	09.83
0050	07.34	32.624	25.53	4848.8	.000	00.141	000.35	07.33
0075	06.84	32.730	25.68	4844.3	.000	00.202	000.74	06.84
0100	06.14	32.683	25.73	4836.4	.000	00.260	001.26	06.13
0125	05.15	33.071	26.15	4826.1	.000	00.312	001.86	05.14
0150	05.39	33.435	26.41	4832.3	.000	00.357	002.48	05.38
0175	05.81	33.772	26.63	4840.6	.000	00.396	003.13	05.79
0200	05.61	33.857	26.72	4839.8	.000	00.431	003.80	05.59
0250	04.96	33.875	26.81	4834.2	.000	00.497	005.33	04.94
0300	04.49	33.892	26.88	4830.8	.000	00.560	007.10	04.47
0400	03.98	33.989	27.01	4830.0	.000	00.676	011.25	03.95
0500	03.85	34.105	27.11	4834.6	.000	00.782	016.12	03.81
0600	03.65	34.185	27.20	4838.1	.000	00.880	021.62	03.61
0700	03.48	34.253	27.27	4842.0	.000	00.970	027.67	03.43
0800	03.29	34.301	27.32	4845.4	.000	01.056	034.24	03.23
1000	02.95	34.378	27.42	4852.8	.000	01.213	048.74	02.88
1200	02.65	34.442	27.49	4860.6	.000	01.356	064.80	02.56
1500	02.36	34.507	27.57	4874.6	.000	01.549	091.62	02.26
2000	01.93	34.635	27.71	4898.5	.000	01.826	140.67	01.79

STATION 6

TIME: 2324 DATE: 29-vi-62 LAT: 49° 41' N. LONG: 140° 40' W. SOUNDING: 2165 fms.
WEATHER: 02 WIND: Dir. 280° Speed 16 AIR TEMP: Dry 52° Wet 48° BARO: 1023. mb.
CLOUD: Type Sc Amt. 8 SEA: 280°-2 SWELL: 300°-1 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	10.80	32.604	24.97	4888.4	.000
0010a	10.18	32.568	25.05	4881.5	.000
0020c	10.13	32.569	25.06	4881.5	.000
0029a	10.02	32.566	25.07	4880.7	.000
0049c	07.59	32.581	25.46	4851.8	.000
0073b	06.06	32.640	25.71	4833.6	.000
0097c	05.15	32.880	26.00	4823.7	.000
0122c	04.98	33.160	26.24	4824.0	.000
0146b	05.52	33.657	26.57	4834.7	.000
0170c	05.50	33.805	26.69	4836.4	.000
0195c	05.23	33.844	26.75	4834.4	.000
0244c	04.70	33.882	26.85	4830.3	.000
0292a	04.38	33.883	26.88	4828.8	.000
0380a	03.96	33.985	27.01	4828.6	.000
0476a	03.81	34.077	27.09	4832.6	.000
0714a	03.41	34.272	27.29	4841.9	.000
0934a	03.00	34.362	27.40	4849.5	.000
1204a	02.64	34.438	27.49	4860.7	.000
1437a	02.39	34.500	27.56	4871.2	.000
1941a	01.93	34.620	27.69	4895.0	.000
2000	01.88*	34.632*	27.71	4897.9	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	10.80	32.604	24.97	4888.4	.000	00.000	000.00	10.80
0010	10.18	32.568	25.05	4881.5	.000	00.030	000.02	10.18
0020	10.13	32.569	25.06	4881.5	.000	00.059	000.06	10.13
0030	09.87	32.567	25.10	4878.9	.000	00.088	000.14	09.87
0050	07.51	32.584	25.47	4850.9	.000	00.143	000.36	07.51
0075	05.97	32.662	25.73	4832.6	.000	00.203	000.74	05.97
0100	05.13	32.917	26.03	4823.8	.000	00.257	001.22	05.12
0125	05.05	33.227	26.29	4825.4	.000	00.304	001.76	05.04
0150	05.52	33.683	26.59	4835.0	.000	00.345	002.33	05.50
0175	05.44	33.813	26.71	4836.0	.000	00.381	002.92	05.43
0200	05.17	33.848	26.77	4833.9	.000	00.415	003.57	05.15
0250	04.66	33.882	26.85	4830.1	.000	00.479	005.05	04.64
0300	04.34	33.893	26.89	4828.7	.000	00.540	006.78	04.32
0400	03.93	34.006	27.03	4829.4	.000	00.655	010.87	03.90
0500	03.76	34.101	27.12	4833.4	.000	00.759	015.69	03.73
0600	03.58	34.188	27.20	4837.2	.000	00.856	021.14	03.54
0700	03.43	34.262	27.28	4841.3	.000	00.946	027.12	03.38
0800	03.24	34.310	27.33	4844.7	.000	01.030	033.58	03.18
1000	02.90	34.382	27.42	4852.2	.000	01.185	047.90	02.83
1200	02.64	34.437	27.49	4860.6	.000	01.327	063.93	02.56
1500	02.32	34.517	27.58	4874.1	.000	01.520	090.53	02.22
2000	01.88	34.632	27.71	4897.9	.000	01.792	138.96	01.75

STATION 5

TIME: 1305 DATE: 30-vi-62 LAT: 49° 17' N. LONG: 136° 40' W. SOUNDING: 2080 fms.
WEATHER: 02 WIND: Dir. 295° Speed 15 AIR TEMP: Dry 54° Wet 51° BARO: 1021. mb.
CLOUD: Type Cu Sc Amt. 8 SEA: 295°-4 SWELL: 300°-3 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	10.90	32.542	24.90	4889.3	.000
0010a	10.87	32.523	24.89	4889.5	.000
0020b	10.86	32.530	24.90	4890.0	.000
0030a	10.71	32.534	24.93	4888.8	.000
0050c	07.84	32.560	25.40	4855.0	.000
0075a	07.28	32.596	25.51	4849.4	.000
0100c	06.79	32.649	25.62	4844.8	.000
0124c	06.97	33.078	25.93	4850.2	.000
0149b	07.08	33.422	26.19	4854.4	.000
0174c	06.87	33.622	26.37	4854.0	.000
0199c	06.66	33.770	26.52	4853.3	.000
0249c	06.15	33.877	26.67	4850.0	.000
0298a	05.72	33.924	26.76	4847.4	.000
0387b	04.88	33.953	26.88	4841.5	.000
0484a	04.34	34.037	27.01	4840.2	.000
0735a	03.72	34.246	27.24	4847.4	.000
0985a	03.11	34.349	27.38	4854.1	.000
1171a	02.78	34.431	27.47	4860.7	.000
1420a	02.45	34.478	27.54	4871.0	.000
1920a	01.99	34.586	27.66	4894.5	.000
2400a	01.74	34.630	27.72	4919.5	.000
2887a	01.65	34.660	27.75	4947.1	.000
3390a	01.53	34.675	27.77	4975.1	.000
3500	01.51*	34.678*	27.77	4981.3	.000

STATION 5

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	Δ_D	P.E.	Pot.Temp. °C
0000	10.90	32.542	24.90	4889.3	.000	00.000	000.00	10.90
0010	10.87	32.523	24.89	4889.5	.000	00.031	000.02	10.87
0020	10.86	32.530	24.90	4890.0	.000	00.062	000.06	10.86
0030	10.71	32.534	24.93	4888.8	.000	00.093	000.14	10.71
0050	07.84	32.560	25.40	4855.0	.000	00.149	000.37	07.84
0075	07.28	32.596	25.51	4849.4	.000	00.213	000.78	07.27
0100	06.79	32.649	25.62	4844.8	.000	00.275	001.33	06.78
0125	06.97	33.093	25.94	4850.4	.000	00.331	001.98	06.96
0150	07.07	33.431	26.20	4854.4	.000	00.381	002.67	07.06
0175	06.86	33.628	26.38	4853.9	.000	00.425	003.41	06.85
0200	06.65	33.772	26.52	4853.2	.000	00.466	004.20	06.63
0250	06.14	33.878	26.67	4849.9	.000	00.541	005.91	06.12
0300	05.70	33.925	26.76	4847.2	.000	00.610	007.86	05.67
0400	04.80	33.965	26.90	4841.2	.000	00.737	012.42	04.77
0500	04.29	34.053	27.03	4840.6	.000	00.853	017.74	04.25
0600	04.02	34.144	27.13	4843.1	.000	00.959	023.69	03.98
0700	03.79	34.222	27.21	4846.2	.000	01.056	030.17	03.74
0800	03.54	34.276	27.28	4848.9	.000	01.146	037.14	03.49
1000	03.08	34.356	27.39	4854.6	.000	01.312	052.35	03.01
1200	02.74	34.437	27.48	4861.9	.000	01.459	068.92	02.66
1500	02.37	34.498	27.56	4874.6	.000	01.656	096.16	02.26
2000	01.94	34.594	27.67	4898.6	.000	01.942	147.18	01.81
2500	01.72	34.637	27.72	4925.1	.000	02.194	205.35	01.54
3000	01.62	34.664	27.75	4953.4	.000	02.431	272.77	01.40
3500	01.51	34.678	27.77	4981.3	.000	02.662	350.31	01.23

STATION 4A

TIME: 2123 DATE: 30-vi-62 LAT: 49° 20' N. LONG: 134° 40' W. SOUNDING: 1560 fms.
WEATHER: 02 WIND: Dir. 310° Speed 10 AIR TEMP: Dry 51° Wet 50° BARO: 1021. mb.
CLOUD: Type Cu Amt. 4 SEA: 310°-2 SWELL: 300°-3 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	12.20	32.585	24.70	4904.5	.000
0010a	11.60	32.544	24.78	4898.1	.000
0020b	11.42	32.539	24.81	4896.6	.000
0030a	09.93	32.579	25.10	4879.7	.000
0049c	07.53	32.627	25.50	4851.2	.000
0074a	06.96	32.712	25.65	4845.7	.000
0099c	06.64	32.898	25.83	4843.7	.000
0123c	06.45	33.302	26.18	4844.2	.000
0148a	06.41	33.684	26.48	4846.7	.000
0173c	06.34	33.817	26.60	4847.7	.000
0198c	06.10	33.878	26.68	4846.3	.000
0247c	05.50	33.896	26.76	4841.3	.000
0296a	04.89	33.892	26.83	4836.0	.000
0383a	04.46	33.972	26.94	4835.6	.000
0479a	04.11	34.089	27.07	4836.9	.000
0730a	03.62	34.255	27.25	4845.7	.000
0981a	03.10	34.377	27.40	4853.8	.000
1226a	02.67	34.456	27.50	4862.5	.000
1470a	02.39	34.519	27.58	4873.3	.000
1978a	01.90	34.601	27.68	4896.7	.000
2000	01.88*	34.604*	27.69	4897.7	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	12.20	32.585	24.70	4904.5	.000	00.000	000.00	12.20
0010	11.60	32.544	24.78	4898.1	.000	00.032	000.02	11.60
0020	11.42	32.539	24.81	4896.6	.000	00.064	000.07	11.42
0030	09.93	32.579	25.10	4879.7	.000	00.095	000.14	09.93
0050	07.50	32.631	25.51	4850.9	.000	00.149	000.36	07.50
0075	06.95	32.720	25.65	4845.6	.000	00.210	000.75	06.94
0100	06.63	32.917	25.85	4843.7	.000	00.267	001.26	06.62
0125	06.45	33.335	26.20	4844.4	.000	00.317	001.84	06.44
0150	06.40	33.695	26.49	4846.7	.000	00.360	002.44	06.39
0175	06.32	33.822	26.60	4847.6	.000	00.398	003.08	06.30
0200	06.07	33.879	26.68	4846.1	.000	00.435	003.77	06.06
0250	05.46	33.896	26.77	4841.0	.000	00.503	005.34	05.44
0300	04.87	33.896	26.84	4835.9	.000	00.568	007.17	04.84
0400	04.39	33.995	26.97	4835.8	.000	00.688	011.47	04.36
0500	04.06	34.106	27.09	4837.6	.000	00.797	016.48	04.02
0600	03.85	34.178	27.17	4840.9	.000	00.897	022.12	03.81
0700	03.67	34.238	27.24	4844.5	.000	00.991	028.37	03.62
0800	03.46	34.293	27.30	4847.8	.000	01.079	035.16	03.40
1000	03.06	34.384	27.41	4854.4	.000	01.240	049.95	02.99
1200	02.71	34.448	27.49	4861.6	.000	01.383	066.14	02.63
1500	02.36	34.525	27.58	4874.6	.000	01.576	092.68	02.25
2000	01.88	34.604	27.69	4897.7	.000	01.853	142.09	01.74

STATION 4

TIME: 0430 DATE: 1-vii-62 LAT: 49° 10' N. LONG: 132° 40' W. SOUNDING: 1800 fms.
WEATHER: 02 WIND: Dir. 310° Speed 16 AIR TEMP: Dry ° Wet ° BARO: 1020. mb.
CLOUD: Type Cu Amt. 4 SEA: 310°-2 SWELL: 300°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	13.10	32.583	24.52	4914.7	.000
0010a	12.05	32.533	24.69	4903.2	.000
0020b	12.02	32.531	24.69	4903.5	.000
0030a	11.54	32.545	24.79	4898.6	.000
0049c	09.68	32.560	25.12	4877.7	.000
0074a	07.98	32.625	25.44	4858.4	.000
0099c	07.30	32.699	25.59	4851.5	.000
0123c	05.97	33.128	26.10	4837.2	.000
0148b	06.71	33.695	26.45	4850.6	.000
0172c	06.51	33.842	26.59	4850.0	.000
0197c	06.37	33.897	26.66	4849.9	.000
0246c	05.54	33.900	26.76	4841.8	.000
0295a	04.97	33.918	26.84	4837.1	.000
0386a	04.66	34.056	26.99	4838.8	.000
0483a	04.16	34.088	27.07	4837.9	.000
0726b	03.66	34.259	27.25	4846.0	.000
0968a	03.07	34.381	27.41	4852.6	.000
1209a	02.71	34.450	27.49	4862.1	.000
1458a	02.45	34.506	27.56	4873.4	.000
1935a	01.93	34.591	27.67	4894.5	.000
2000	01.87*	34.601*	27.68	4897.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	13.10	32.583	24.52	4914.7	.000	00.000	000.00	13.10
0010	12.05	32.533	24.69	4903.2	.000	00.034	000.02	12.05
0020	12.02	32.531	24.69	4903.5	.000	00.067	000.07	12.02
0030	11.54	32.545	24.79	4898.6	.000	00.099	000.15	11.54
0050	09.60	32.563	25.14	4876.8	.000	00.160	000.40	09.59
0075	07.95	32.628	25.44	4858.1	.000	00.228	000.83	07.94
0100	07.24	32.719	25.61	4850.8	.000	00.290	001.39	07.23
0125	06.03	33.177	26.13	4838.4	.000	00.344	002.00	06.02
0150	06.69	33.708	26.46	4850.6	.000	00.388	002.62	06.68
0175	06.49	33.849	26.60	4850.0	.000	00.427	003.26	06.48
0200	06.31	33.897	26.66	4849.3	.000	00.463	003.96	06.30
0250	05.49	33.902	26.77	4841.4	.000	00.532	005.55	05.47
0300	04.95	33.927	26.85	4837.2	.000	00.596	007.36	04.93
0400	04.58	34.061	27.00	4838.6	.000	00.715	011.58	04.55
0500	04.12	34.102	27.08	4838.4	.000	00.823	016.56	04.08
0600	03.89	34.179	27.17	4841.5	.000	00.923	022.23	03.85
0700	03.70	34.244	27.24	4845.1	.000	01.017	028.50	03.65
0800	03.46	34.300	27.31	4847.8	.000	01.105	035.26	03.40
1000	03.02	34.391	27.42	4853.8	.000	01.264	049.90	02.95
1200	02.72	34.448	27.49	4861.7	.000	01.407	066.00	02.64
1500	02.40	34.515	27.57	4875.1	.000	01.601	092.86	02.29
2000	01.87	34.601	27.68	4897.5	.000	01.882	142.79	01.73

STATION 3

TIME: 1134 DATE: 1-vii-62 LAT: 49° 01' N. LONG: 130° 40' W. SOUNDING: 1880 fms.
WEATHER: 03 WIND: Dir. 310° Speed 18 AIR TEMP: Dry 55° Wet 52° BARO: 1020. mb.
CLOUD: Type Sc Amt. 8 SEA: 310°-2 SWELL: 310°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	12.50	32.255	24.39	4906.7	.000
0010b	12.68	32.252	24.35	4909.4	.000
0020b	12.61	32.240	24.35	4909.1	.000
0030a	11.72	32.264	24.54	4899.6	.000
0049c	08.26	32.517	25.31	4860.0	.000
0074b	07.29	32.873	25.73	4850.6	.000
0099c	07.14	33.422	26.18	4852.2	.000
0123c	07.03	33.678	26.40	4853.2	.000
0148a	06.70	33.829	26.56	4851.0	.000
0172c	06.34	33.875	26.64	4847.9	.000
0197c	05.94	33.916	26.73	4844.3	.000
0246c	05.46	33.916	26.78	4840.8	.000
0295a	05.12	33.946	26.85	4839.3	.000
0384a	04.64	34.027	26.97	4838.3	.000
0480a	04.40	34.099	27.05	4841.0	.000
0730a	03.69	34.269	27.26	4846.7	.000
0979a	03.14	34.392	27.41	4854.3	.000
1223a	02.75	34.453	27.49	4863.5	.000
1468a	02.44	34.515	27.57	4873.9	.000
1963a	01.90	34.598	27.68	4895.8	.000
2000	01.87*	34.603*	27.69	4897.5	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	12.50	32.255	24.39	4906.7	.000	00.000	000.00	12.50
0010	12.68	32.252	24.35	4909.4	.000	00.036	000.02	12.68
0020	12.61	32.240	24.35	4909.1	.000	00.072	000.07	12.61
0030	11.72	32.264	24.54	4899.6	.000	00.107	000.16	11.72
0050	08.21	32.534	25.33	4859.6	.000	00.168	000.41	08.21
0075	07.28	32.898	25.75	4850.6	.000	00.231	000.80	07.28
0100	07.13	33.434	26.19	4852.3	.000	00.282	001.26	07.13
0125	07.00	33.691	26.41	4853.0	.000	00.326	001.76	06.99
0150	06.67	33.833	26.57	4850.7	.000	00.366	002.32	06.65
0175	06.29	33.880	26.65	4847.4	.000	00.403	002.93	06.27
0200	05.91	33.916	26.73	4844.0	.000	00.438	003.60	05.89
0250	05.43	33.919	26.79	4840.6	.000	00.504	005.14	05.41
0300	05.09	33.951	26.86	4839.2	.000	00.568	006.94	05.07
0400	04.60	34.040	26.98	4838.7	.000	00.687	011.19	04.57
0500	04.33	34.115	27.07	4841.3	.000	00.797	016.24	04.29
0600	04.02	34.189	27.16	4843.3	.000	00.898	021.97	03.98
0700	03.76	34.252	27.24	4845.9	.000	00.993	028.26	03.71
0800	03.52	34.307	27.31	4848.6	.000	01.081	035.02	03.46
1000	03.10	34.398	27.42	4855.0	.000	01.240	049.72	03.03
1200	02.78	34.448	27.49	4862.6	.000	01.384	065.95	02.70
1500	02.40	34.521	27.58	4875.2	.000	01.579	092.83	02.30
2000	01.87	34.603	27.69	4897.5	.000	01.858	142.46	01.73

STATION 2

TIME: 1917 DATE: 1-vii-62 LAT: 48° 51' N. LONG: 128° 40' W. SOUNDING: 1200 fms.
WEATHER: 01 WIND: Dir. 310° Speed 15 AIR TEMP: Dry 56° Wet 51° BARO: 1020. mb.
CLOUD: Type Cu Amt. 3 SEA: 310°-2 SWELL: 310°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	13.00	32.330	24.35	4912.6	.000
0010b	12.78	32.282	24.35	4910.6	.000
0020b	12.78	32.359	24.41	4911.5	.000
0030b	11.15	32.489	24.82	4893.8	.000
0050c	09.22	32.555	25.19	4872.2	.000
0075a	07.63	32.677	25.53	4854.2	.000
0100c	07.26	33.227	26.01	4853.1	.000
0125c	07.08	33.585	26.32	4853.6	.000
0149a	06.95	33.812	26.51	4854.2	.000
0174c	06.56	33.895	26.63	4851.0	.000
0199c	06.25	33.908	26.68	4848.5	.000
0249c	05.47	33.911	26.78	4841.1	.000
0298a	05.10	33.912	26.82	4839.0	.000
0383a	04.64	33.989	26.94	4838.1	.000
0479a	04.46	34.112	27.05	4841.9	.000
0730a	03.97	34.304	27.26	4850.8	.000
0980a	03.30	34.401	27.40	4856.6	.000
1226a	02.86	34.488	27.51	4865.4	.000
1472a	02.46	34.526	27.58	4874.4	.000
1965a	01.88	34.600	27.68	4895.6	.000
2000	01.84*	34.605*	27.69	4897.2	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	13.00	32.330	24.35	4912.6	.000	00.000	000.00	13.00
0010	12.78	32.282	24.35	4910.6	.000	00.036	000.02	12.78
0020	12.78	32.359	24.41	4911.5	.000	00.072	000.07	12.78
0030	11.15	32.489	24.82	4893.8	.000	00.106	000.16	11.15
0050	09.22	32.555	25.19	4872.2	.000	00.165	000.40	09.22
0075	07.63	32.677	25.53	4854.2	.000	00.232	000.82	07.62
0100	07.26	33.227	26.01	4853.1	.000	00.288	001.32	07.25
0125	07.08	33.585	26.32	4853.6	.000	00.336	001.87	07.07
0150	06.93	33.816	26.52	4854.1	.000	00.377	002.45	06.92
0175	06.55	33.896	26.63	4850.9	.000	00.415	003.07	06.53
0200	06.23	33.908	26.68	4848.3	.000	00.450	003.76	06.22
0250	05.46	33.911	26.78	4841.0	.000	00.518	005.33	05.44
0300	05.09	33.914	26.83	4839.0	.000	00.583	007.15	05.06
0400	04.61	34.013	26.96	4838.8	.000	00.705	011.49	04.57
0500	04.41	34.131	27.07	4842.5	.000	00.815	016.58	04.37
0600	04.20	34.214	27.16	4845.9	.000	00.917	022.31	04.15
0700	04.02	34.285	27.24	4849.6	.000	01.011	028.61	03.97
0800	03.76	34.334	27.30	4852.2	.000	01.100	035.42	03.70
1000	03.26	34.409	27.41	4857.3	.000	01.261	050.28	03.19
1200	02.90	34.480	27.50	4864.4	.000	01.405	066.49	02.82
1500	02.42	34.531	27.58	4875.6	.000	01.598	093.06	02.32
2000	01.84	34.605	27.69	4897.2	.000	01.874	142.34	01.71

STATION 1

TIME: 0259 DATE: 2-vii-62 LAT: 48° 41' N. LONG: 126° 40' W. SOUNDING: 1300 fms.
WEATHER: 03 WIND: Dir. 320° Speed 15 AIR TEMP: Dry 57° Wet 54° BARO: 1022. mb.
CLOUD: Type Cu Amt. 5 SEA: 320°-2 SWELL: 320°-2 SECCHI DISC: m.

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l
0000	13.40	32.116	24.10	4916.3	.000
0010b	13.20	32.094	24.13	4914.6	.000
0019b	13.18	32.126	24.16	4915.0	.000
0029a	12.69	32.344	24.42	4910.9	.000
0048c	08.53	32.528	25.28	4863.4	.000
0072b	07.54	33.060	25.84	4854.4	.000
0096c	07.36	33.567	26.26	4855.4	.000
0120c	07.38	33.783	26.43	4857.9	.000
0143b	07.02	33.862	26.54	4855.0	.000
0167c	06.81	33.924	26.62	4853.9	.000
0191c	06.44	33.922	26.67	4850.5	.000
0239c	05.82	33.948	26.77	4845.3	.000
0287b	05.73	34.012	26.83	4847.2	.000
0374a	05.07	34.060	26.94	4843.7	.000
0468a	04.78	34.133	27.04	4845.7	.000
0723b	04.12	34.294	27.23	4852.4	.000
0978a	03.55	34.400	27.38	4860.0	.000
1000	03.51*	34.408*	27.39	4860.8	.000

INTERPOLATED DATA

Depth m.	Temp. °C	S ‰	σ_t	S/V ft/sec	D.O. mg.at/l	ΔD	P.E.	Pot.Temp. °C
0000	13.40	32.116	24.10	4916.3	.000	00.000	000.00	13.40
0010	13.20	32.094	24.13	4914.6	.000	00.038	000.02	13.20
0020	13.12	32.151	24.19	4914.5	.000	00.076	000.08	13.12
0030	12.42	32.356	24.48	4908.0	.000	00.113	000.17	12.42
0050	08.43	32.580	25.33	4862.5	.000	00.174	000.42	08.43
0075	07.51	33.131	25.90	4854.5	.000	00.235	000.79	07.51
0100	07.36	33.606	26.29	4855.9	.000	00.283	001.23	07.35
0125	07.30	33.801	26.46	4857.2	.000	00.326	001.71	07.29
0150	06.96	33.881	26.57	4854.6	.000	00.365	002.26	06.94
0175	06.68	33.923	26.64	4852.7	.000	00.402	002.88	06.67
0200	06.31	33.927	26.69	4849.4	.000	00.438	003.57	06.30
0250	05.80	33.964	26.78	4845.7	.000	00.505	005.13	05.78
0300	05.62	34.020	26.85	4846.5	.000	00.570	006.95	05.60
0400	04.98	34.082	26.97	4844.2	.000	00.690	011.25	04.95
0500	04.68	34.157	27.07	4846.3	.000	00.801	016.35	04.64
0600	04.40	34.225	27.15	4848.7	.000	00.904	022.15	04.36
0700	04.17	34.282	27.22	4851.6	.000	01.000	028.58	04.12
0800	03.93	34.329	27.28	4854.5	.000	01.091	035.55	03.87
1000	03.51	34.408	27.39	4860.8	.000	01.258	050.90	03.43

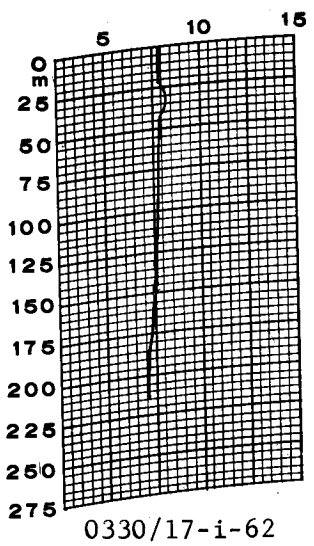
Ocean Weather Station "P"

Patrol No. 50, January 17 - March 3, 1962
Survey P-62-1, February 28 - April 16, 1962
Patrol No. 51, April 11 - May 27, 1962
Survey P-62-2, May 23 - July 2, 1962
Patrol No. 52, June 27 - August 5, 1962

Section II

Bathythermograms of the oceanographic program

Patrol No. 50, C.C.G.S. "Stonetown"



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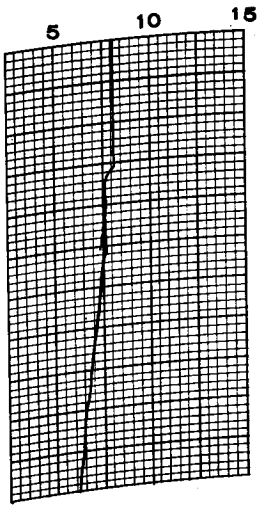
126° 40'w



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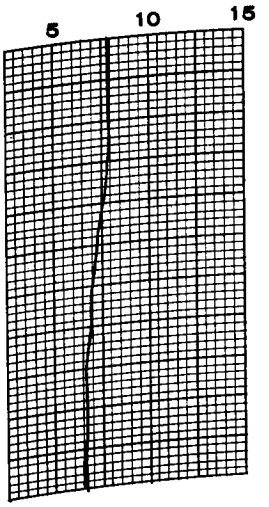

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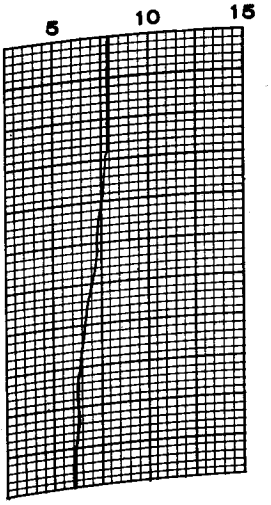

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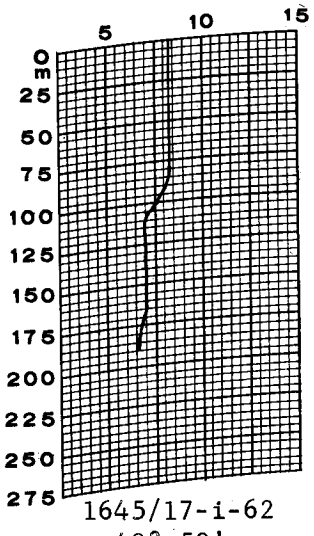

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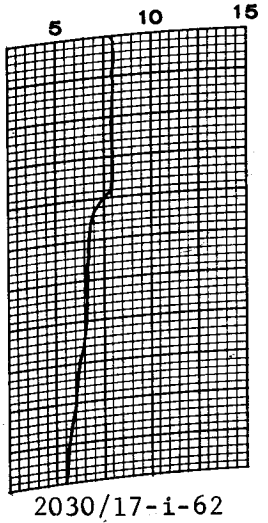

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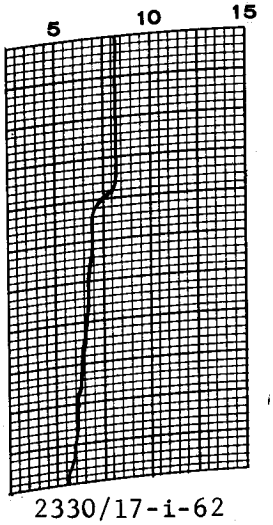

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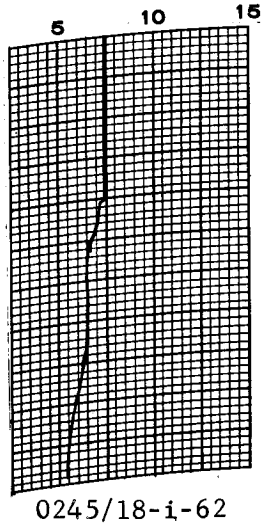

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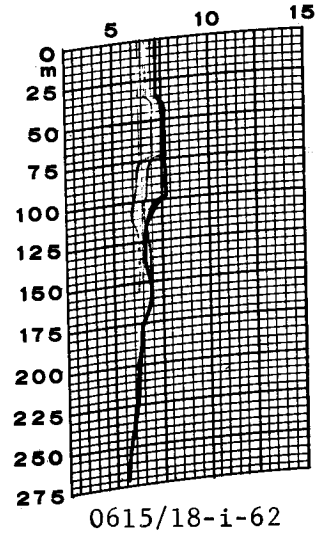

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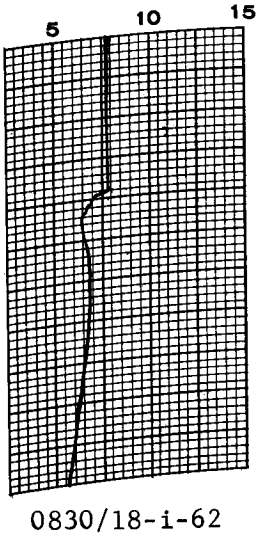

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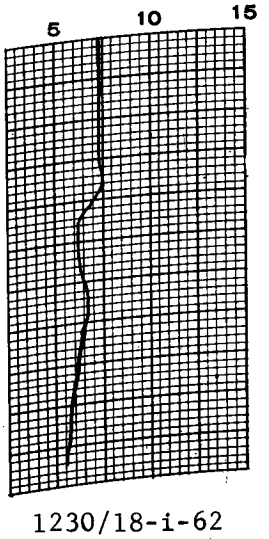

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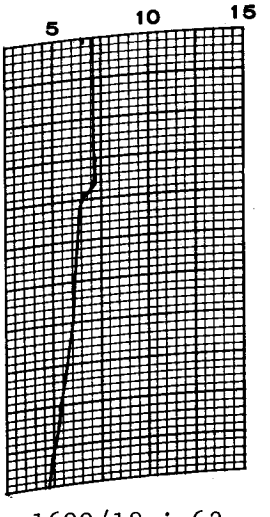

1600/18-i-62
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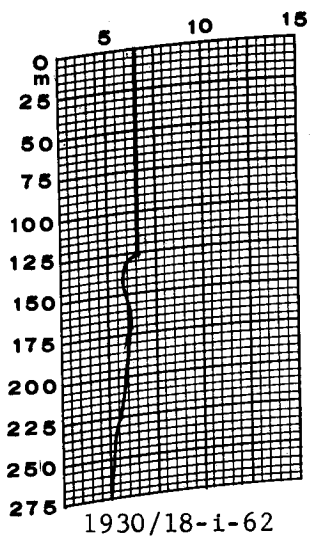

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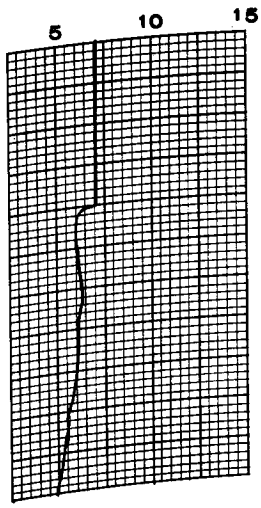

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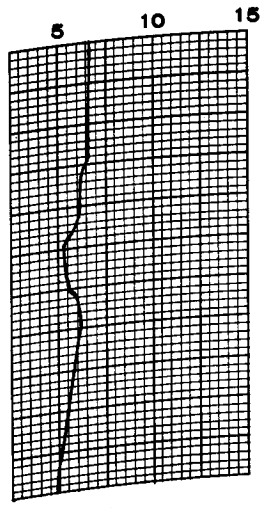

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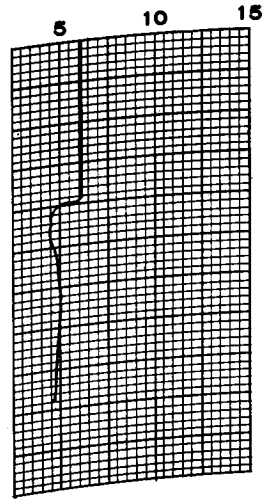

0100/20-i-62
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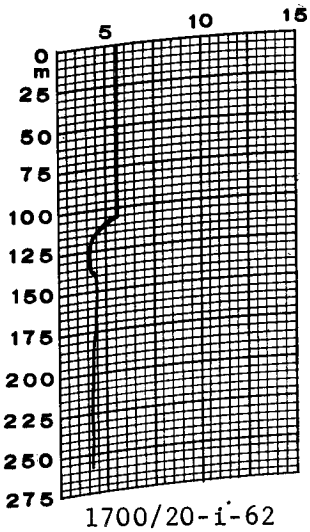

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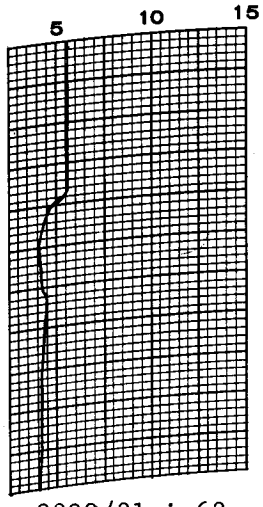

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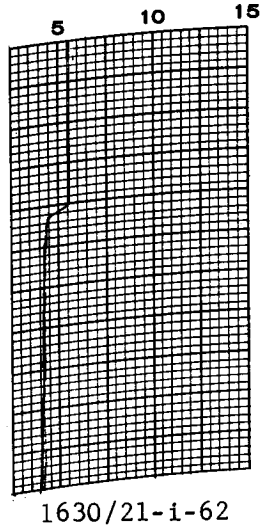

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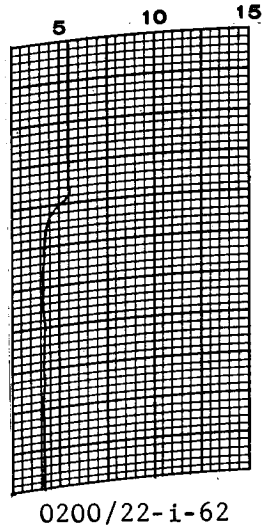

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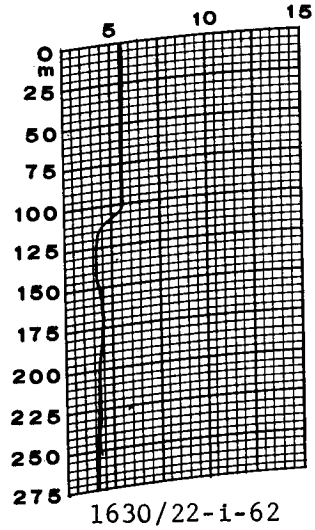

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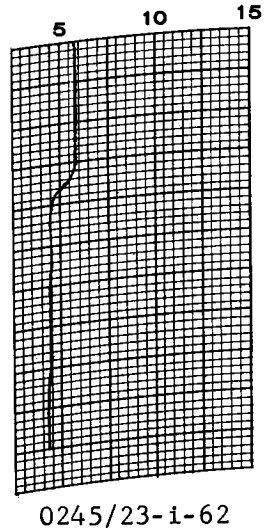

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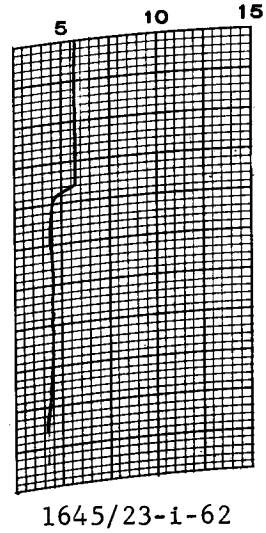

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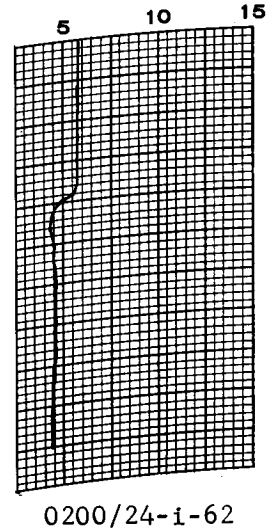

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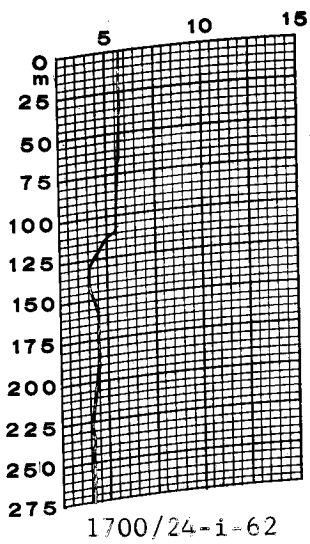

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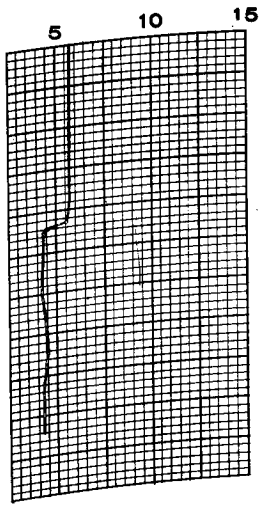

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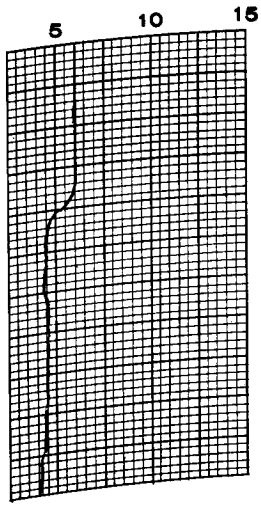

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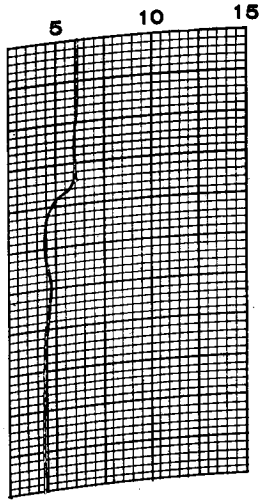

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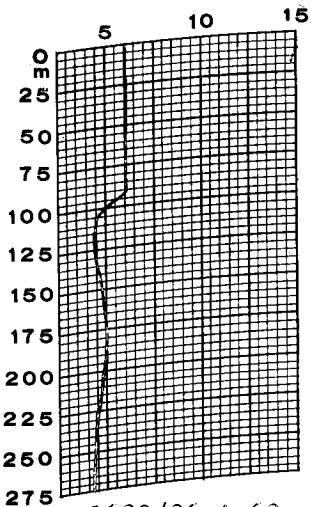

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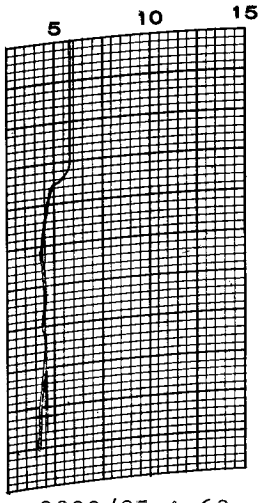

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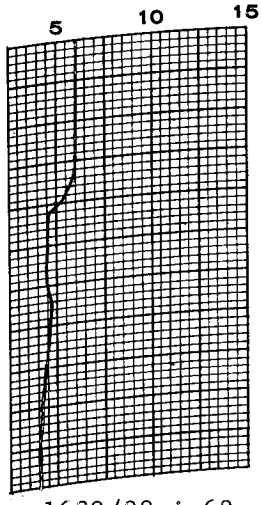

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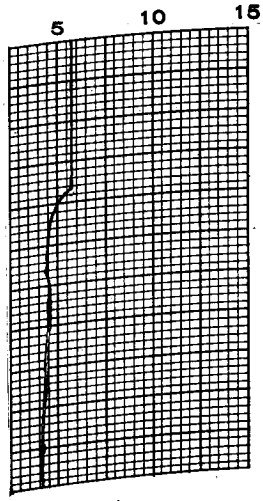

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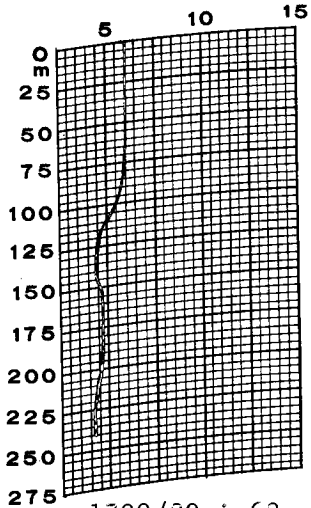

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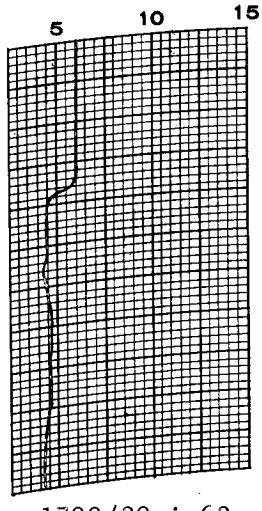

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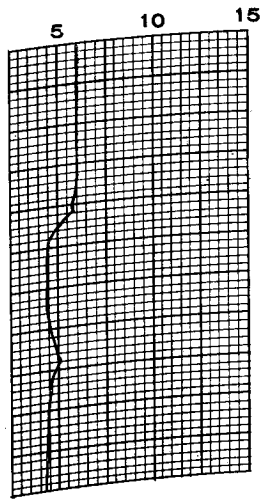

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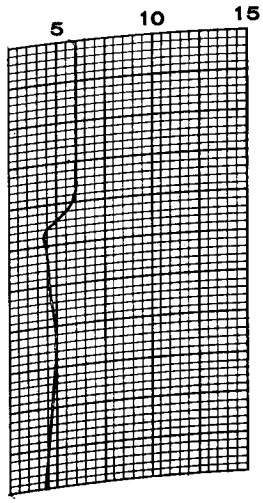

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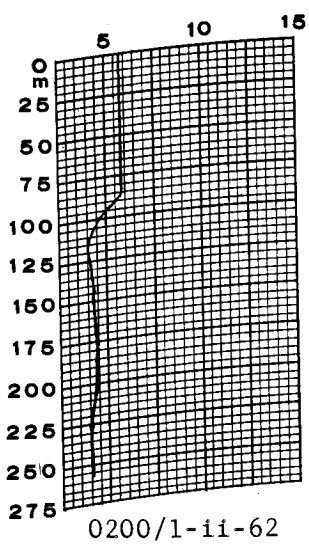

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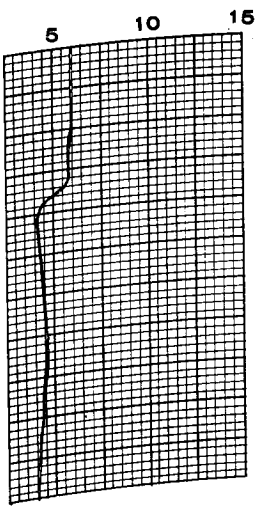

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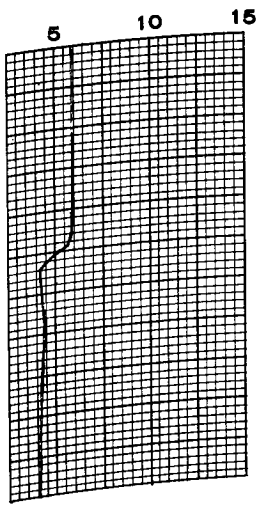

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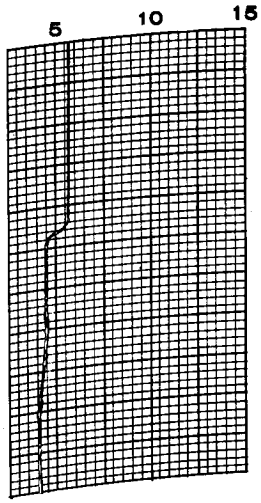

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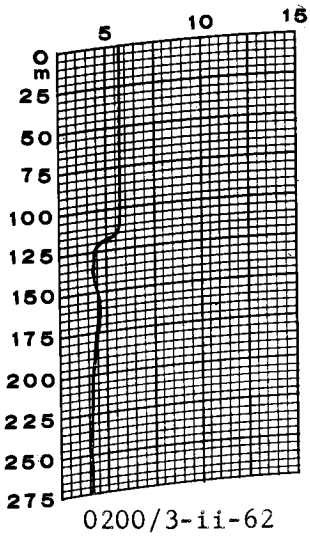

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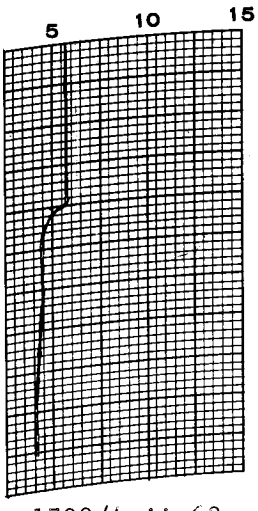

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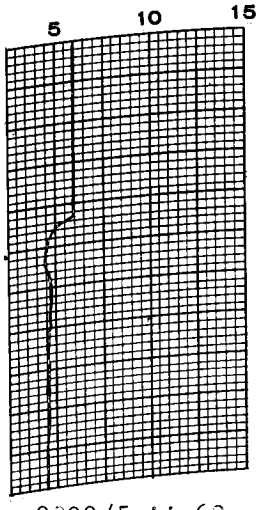

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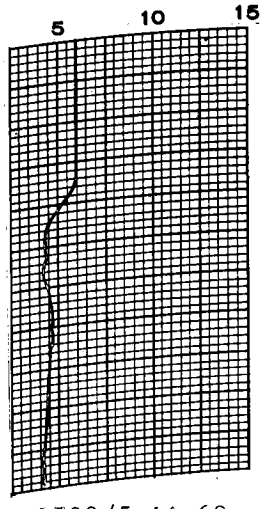

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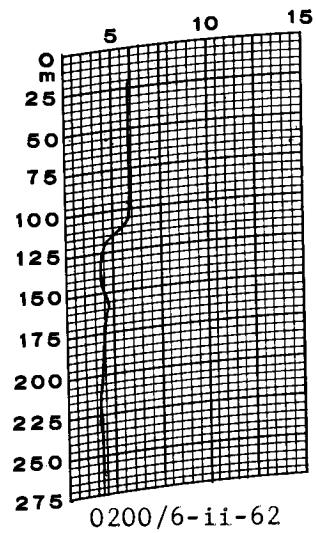

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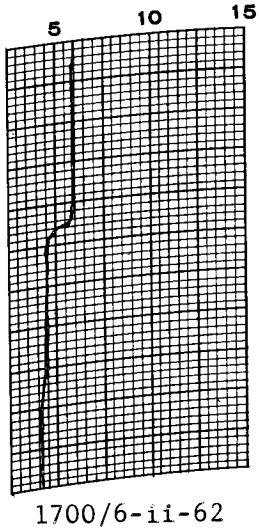

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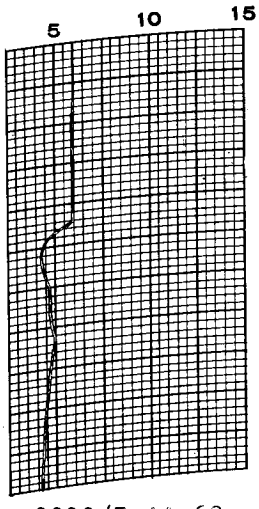

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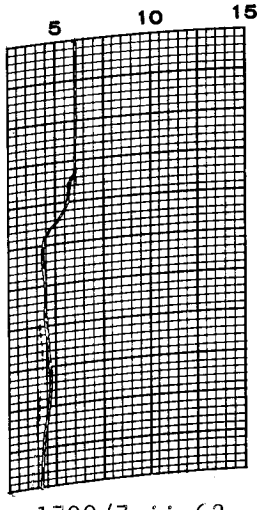

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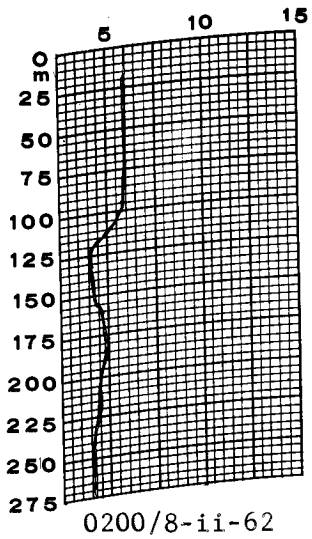

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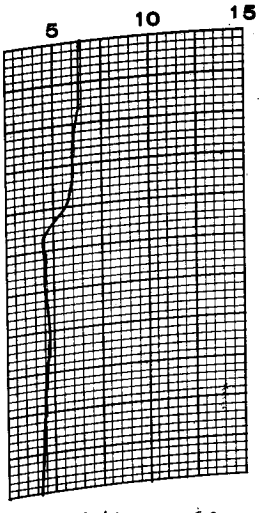

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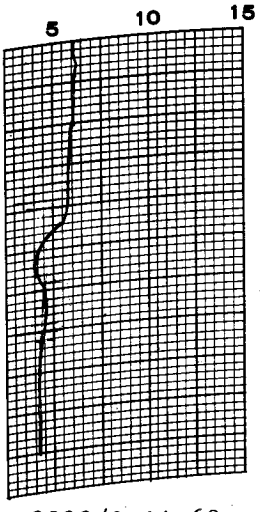

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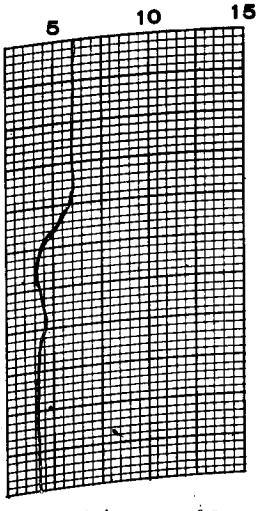

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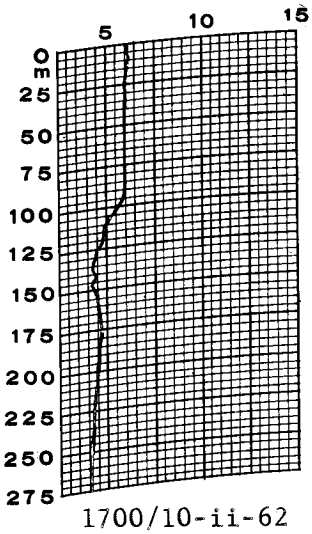

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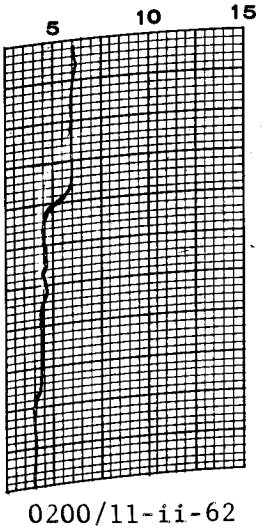

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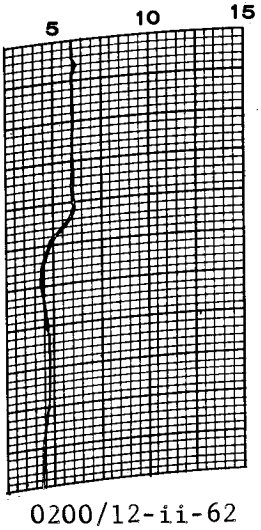

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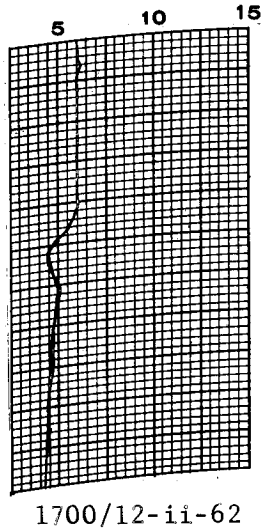

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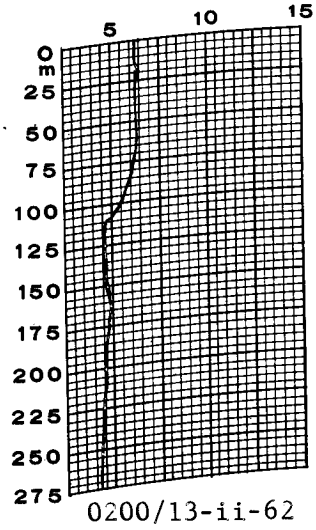

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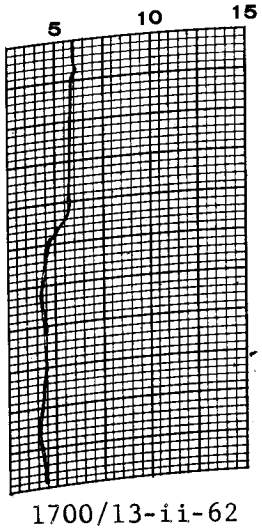

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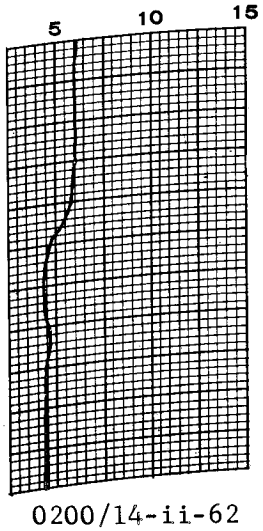

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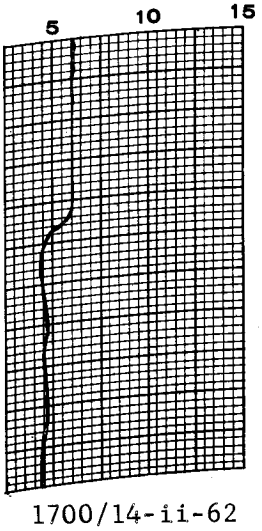

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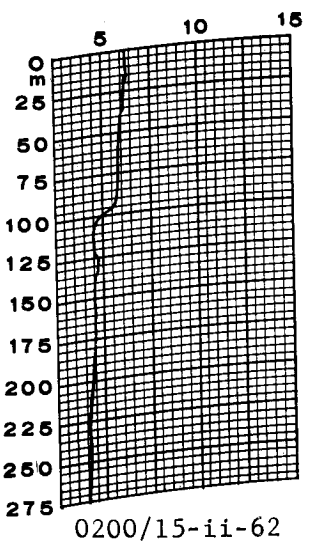

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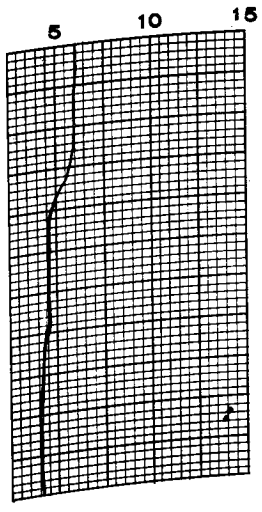

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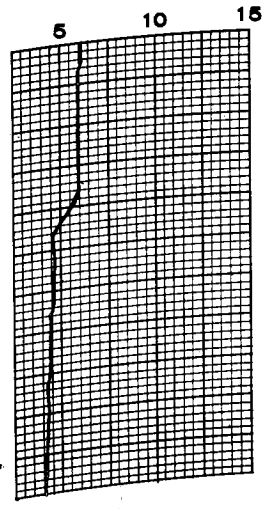

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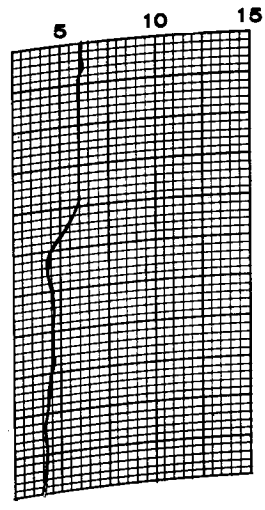

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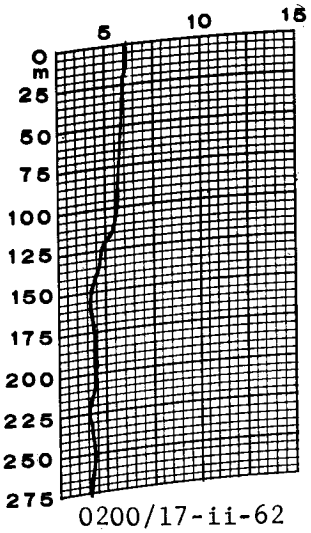

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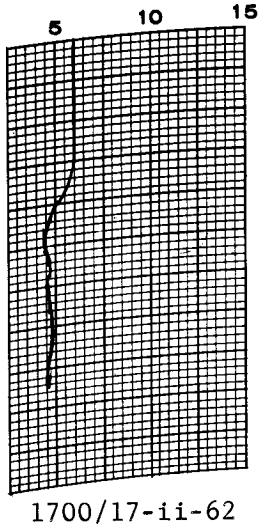

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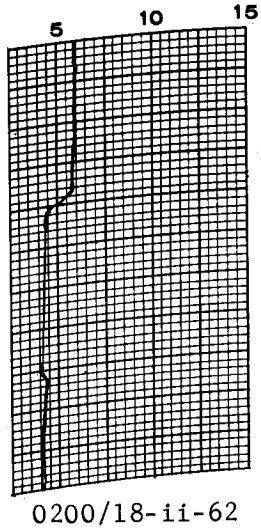

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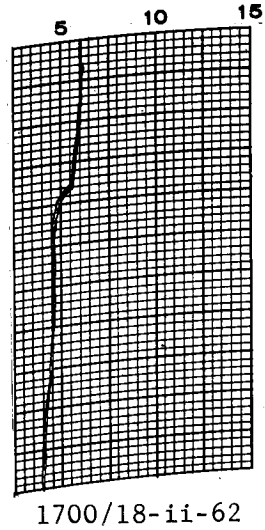

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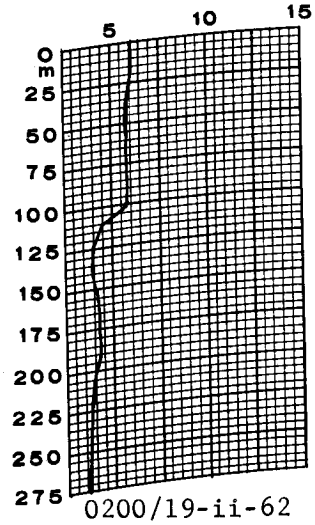

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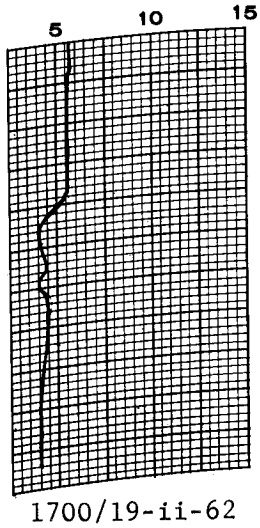

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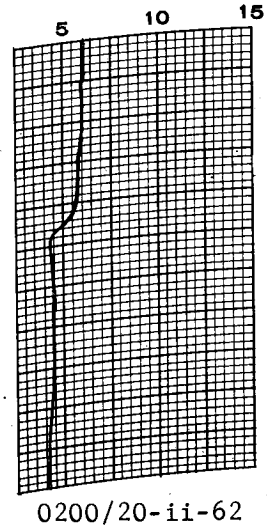

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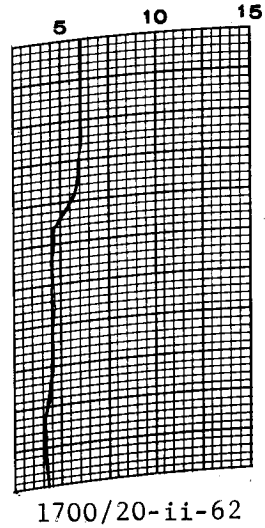

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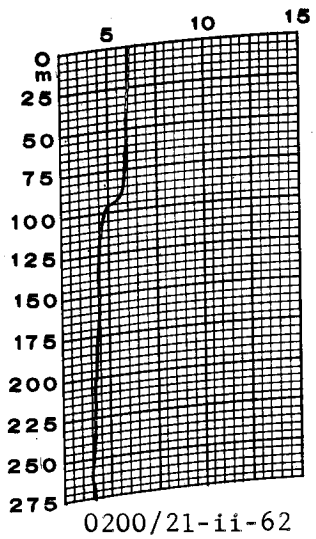

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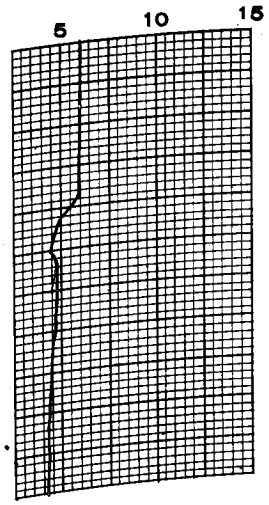

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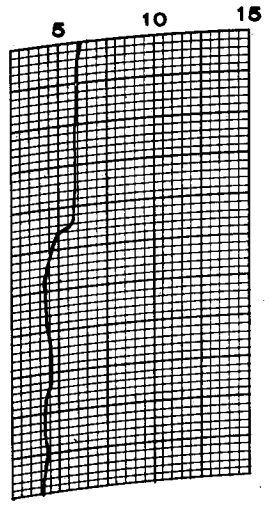
Grid OS



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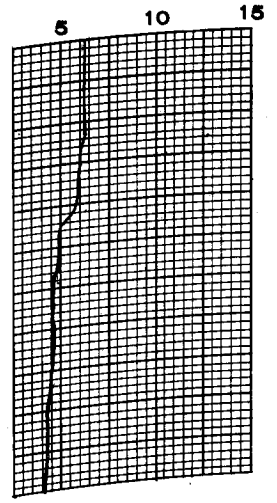

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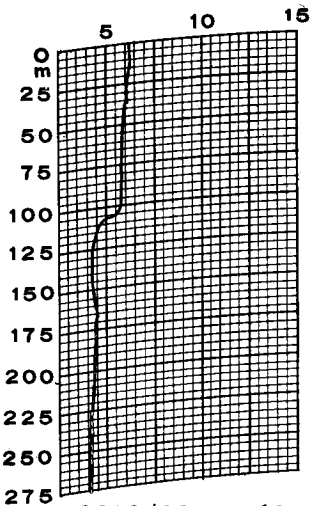

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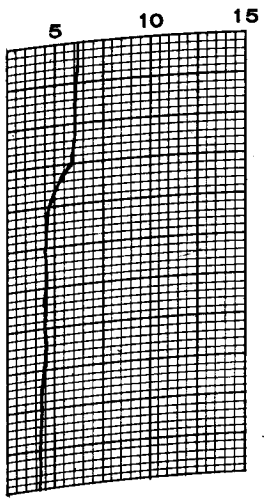

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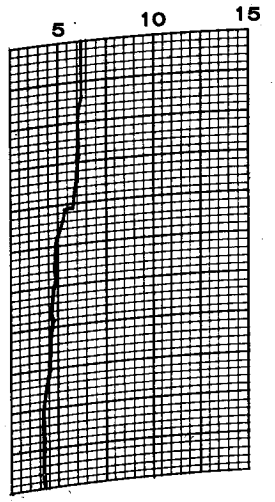

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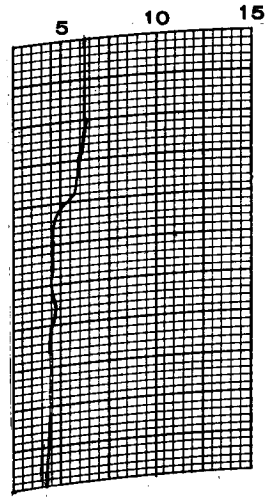

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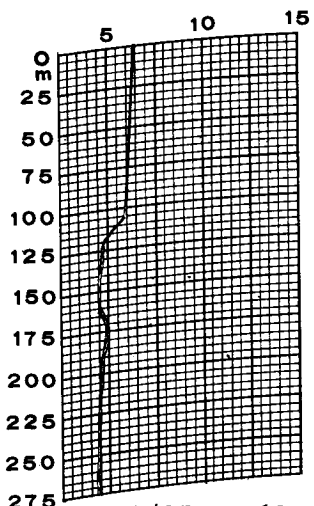

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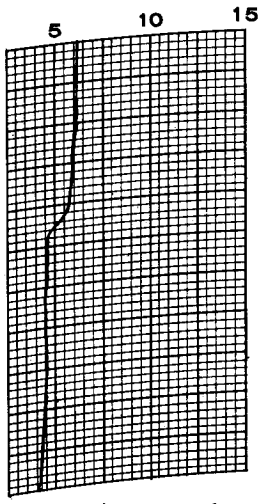

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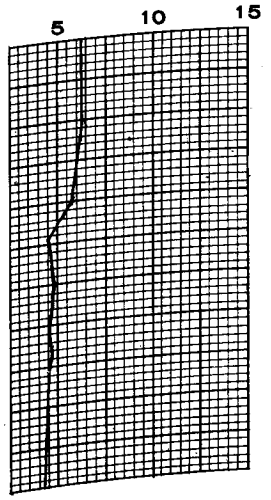

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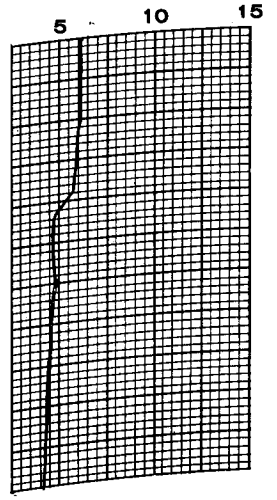

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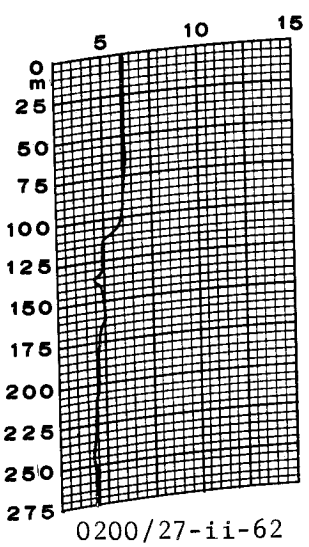

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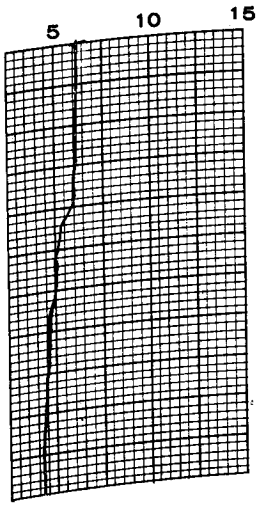

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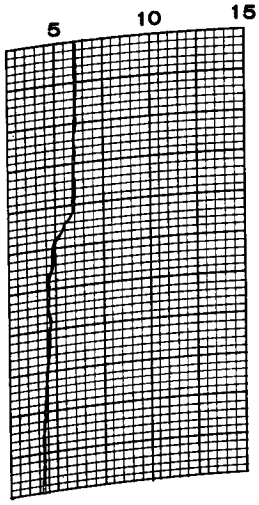

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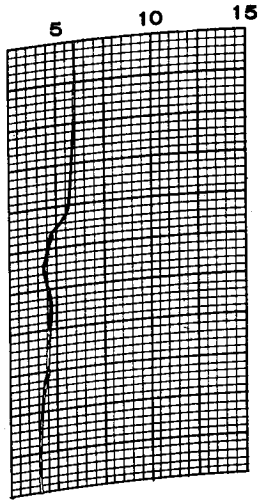

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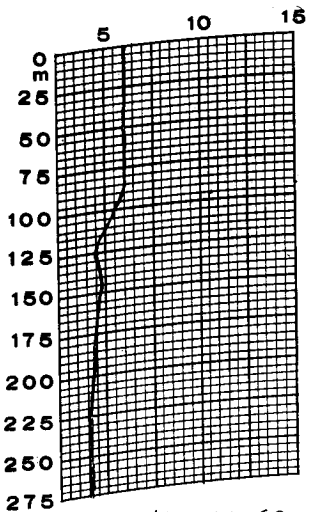

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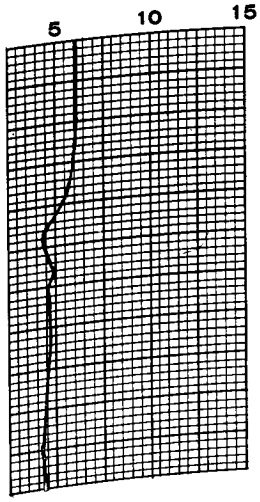

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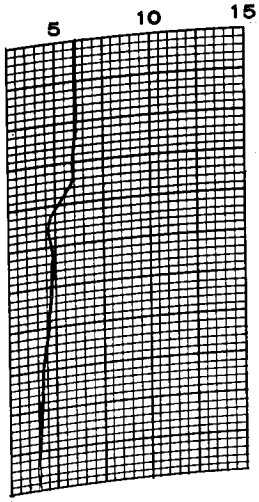

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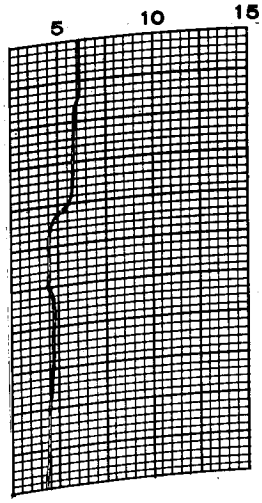
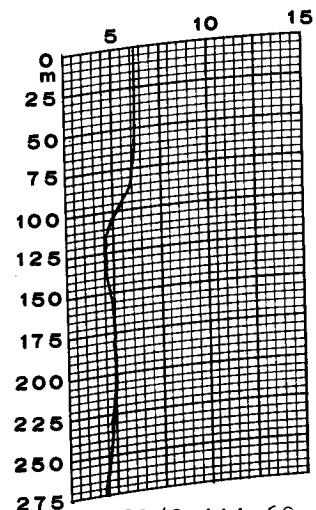
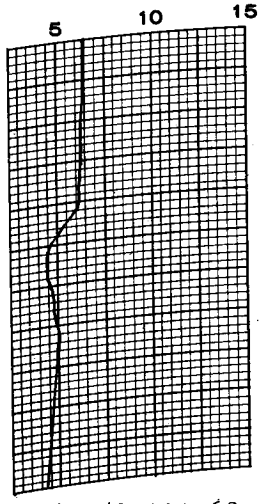


0430/2-iii-62
50° 00'n
144° 40'w



1030/2-iii-62
49° 53'n
143° 40'w



1600/2-iii-62
49° 52'n
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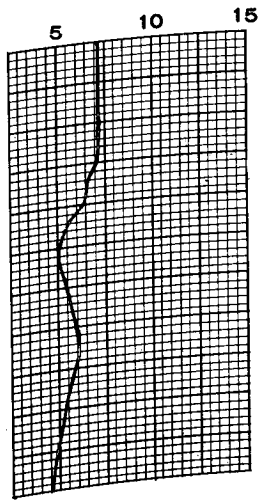
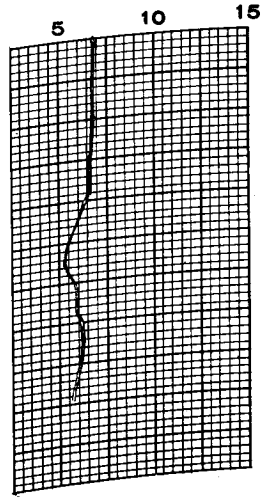


2030/2-iii-62
49° 46'n
141° 43'w



2330/2-iii-62
49° 41'n
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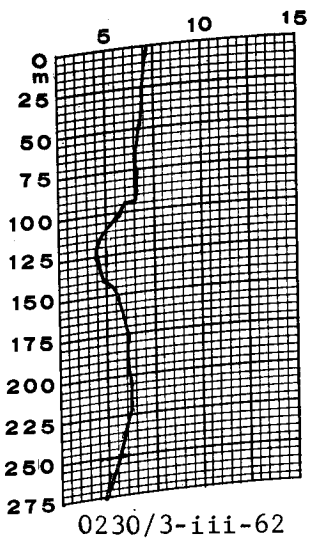
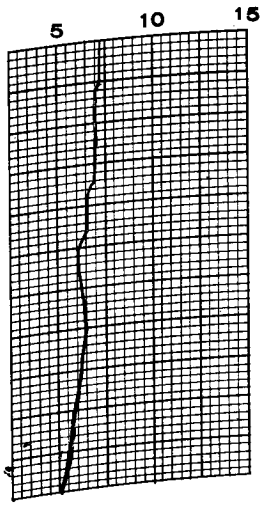


0230/3-iii-62
49° 38'n
139° 40'w



0535/3-iii-62
49° 35'n
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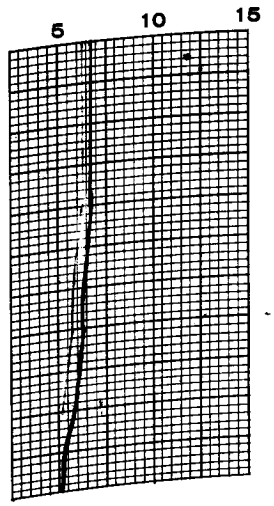

0800/3-iii-62
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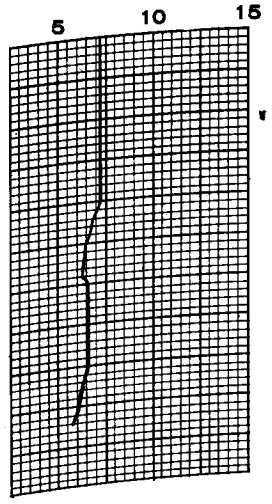
137° 43'w



1100/3-iii-62
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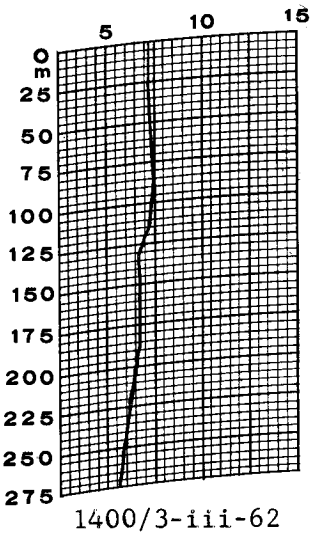

1400/3-iii-62
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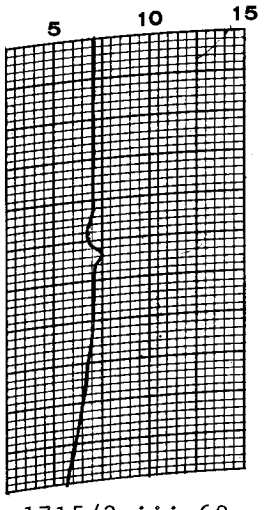

1715/3-iii-62
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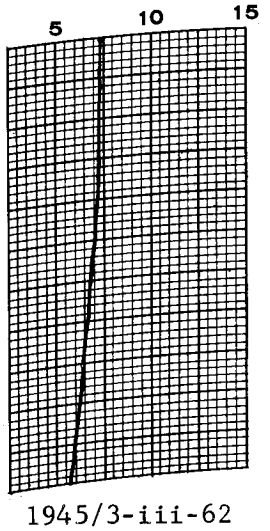

1945/3-iii-62
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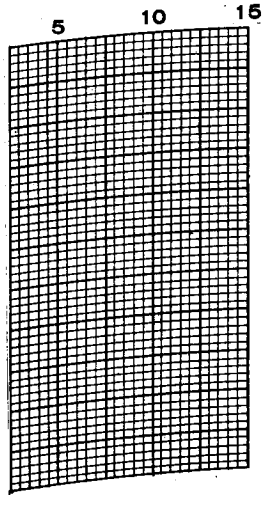
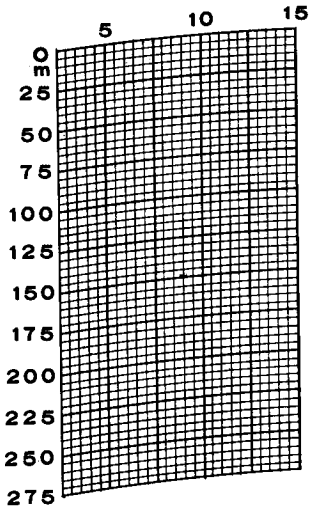
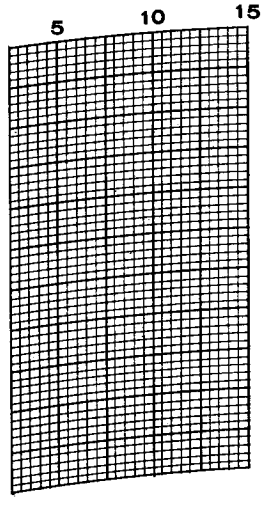
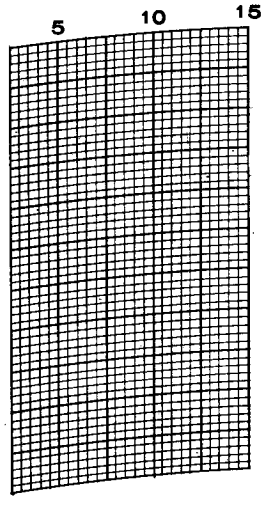
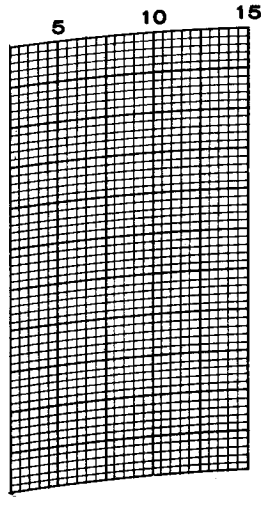


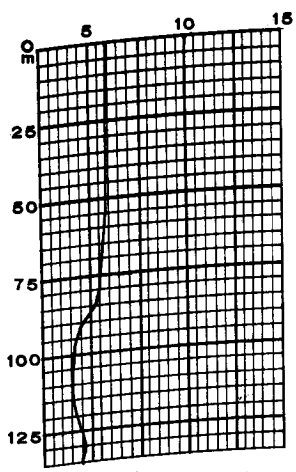








Survey P-62-1, C.C.G.S. "St. Catharines"



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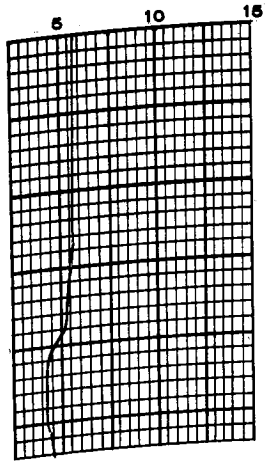
Grid OS



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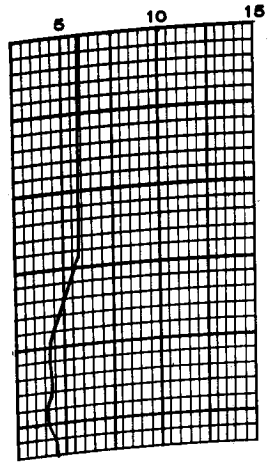

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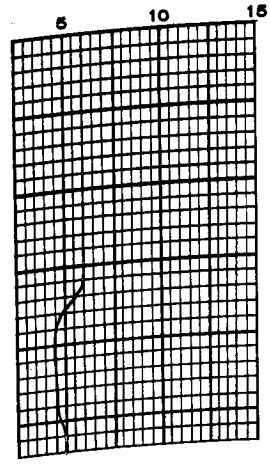

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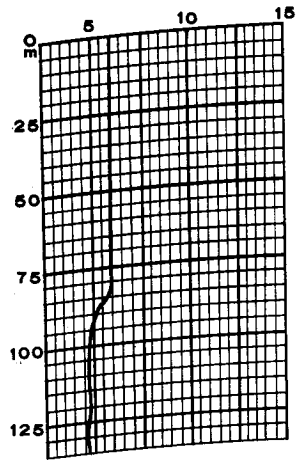

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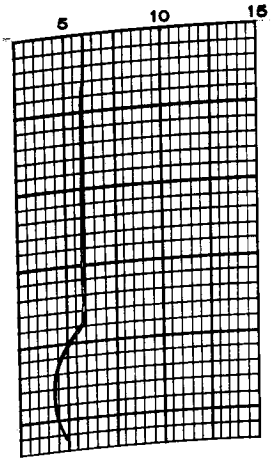
Grid OS



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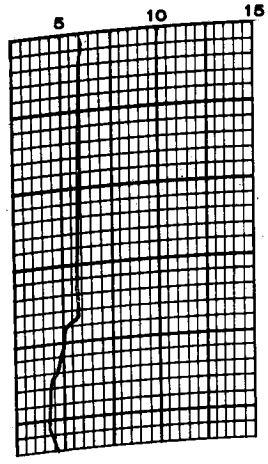

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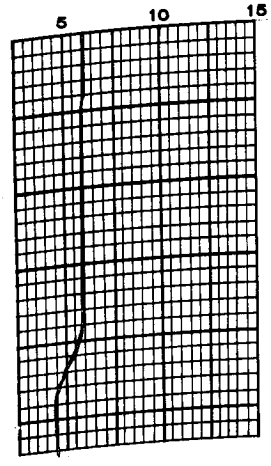

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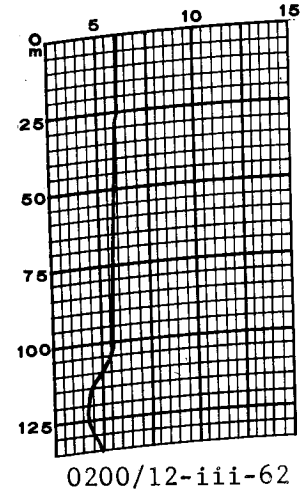

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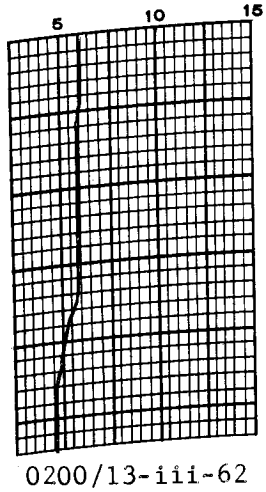

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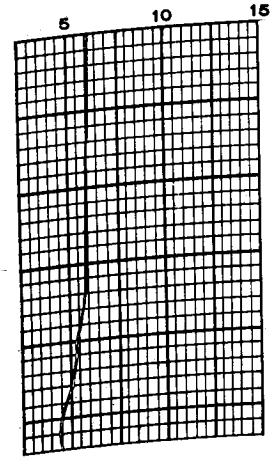

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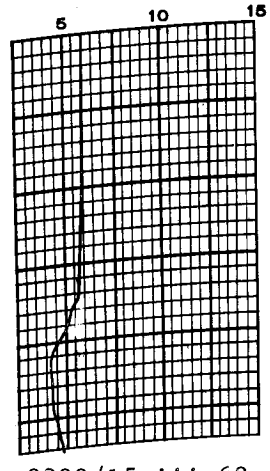

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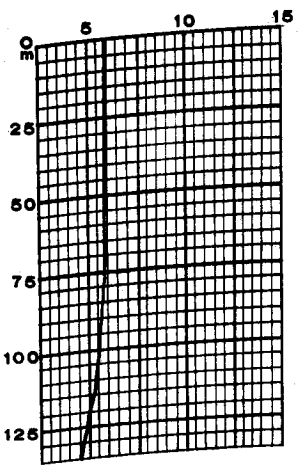

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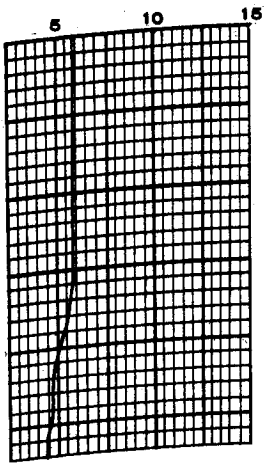

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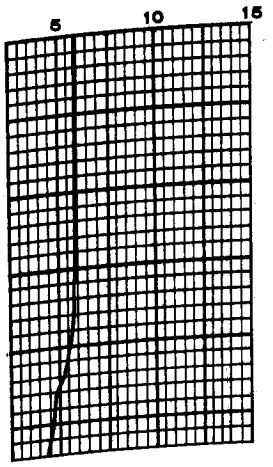

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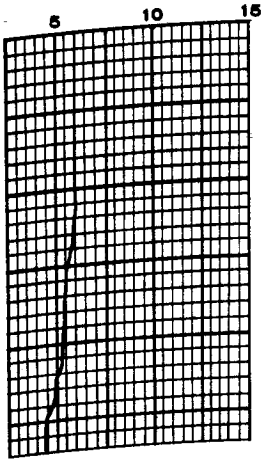
Grid OS



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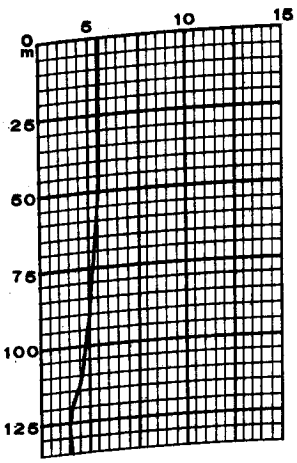

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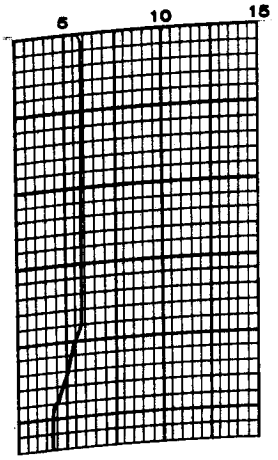

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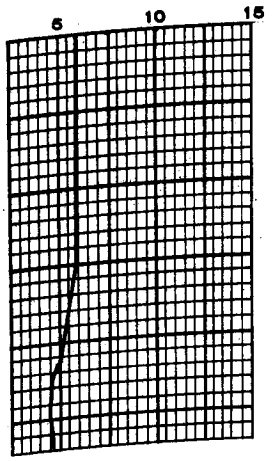
Grid OS



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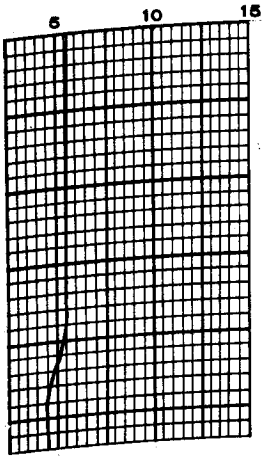
Grid OS



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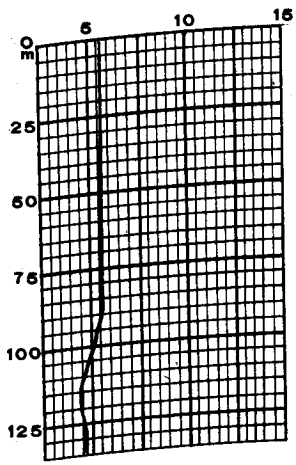
Grid OS



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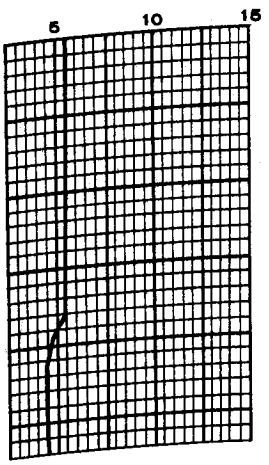

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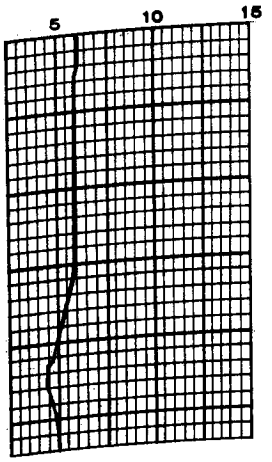

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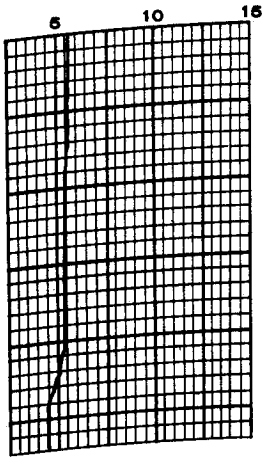
Grid OS



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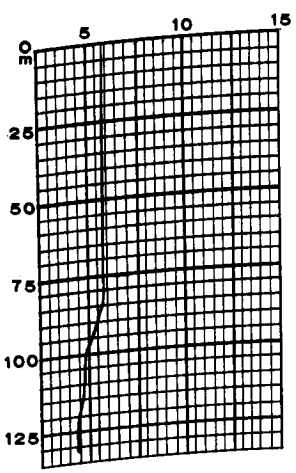

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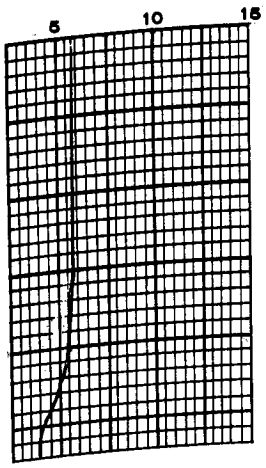

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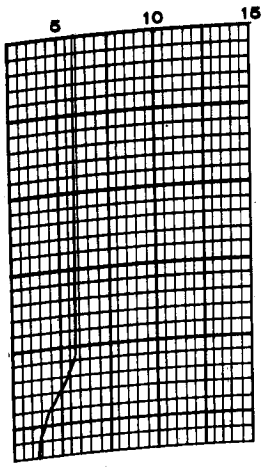
Grid OS



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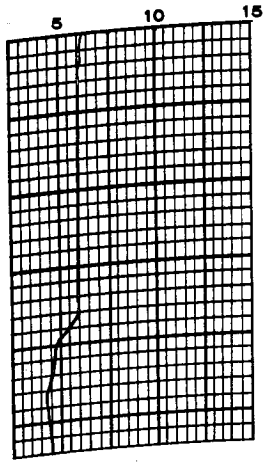
Grid OS



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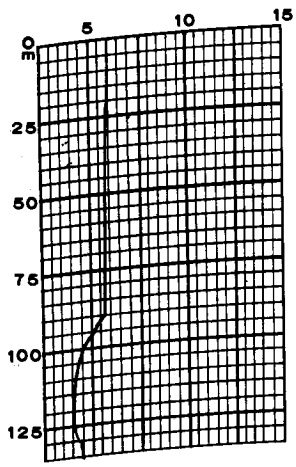
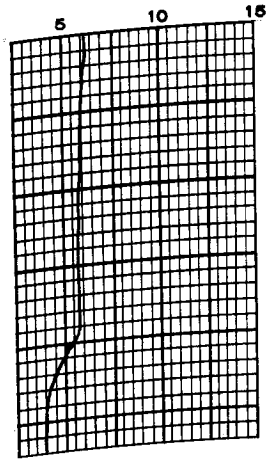
Grid OS



0200/6-iv-62
Grid OS



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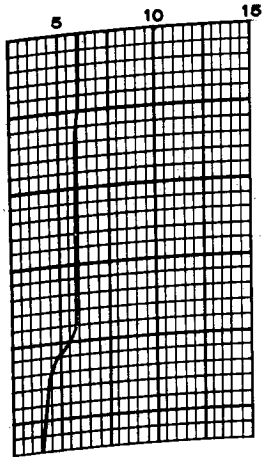
Grid OS



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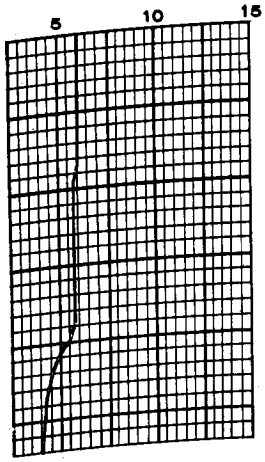
Grid OS



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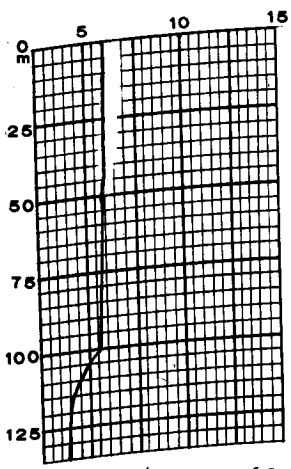
Grid OS



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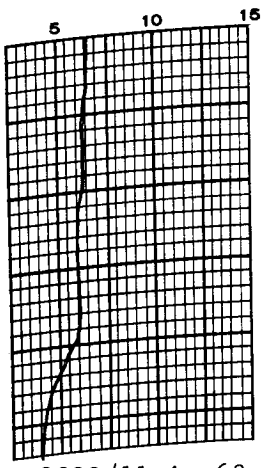
Grid OS



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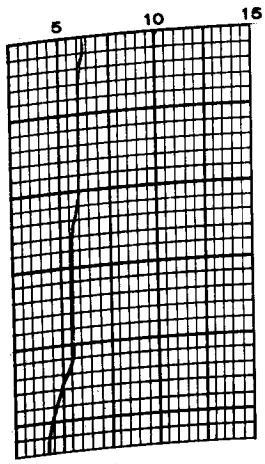
Grid OS



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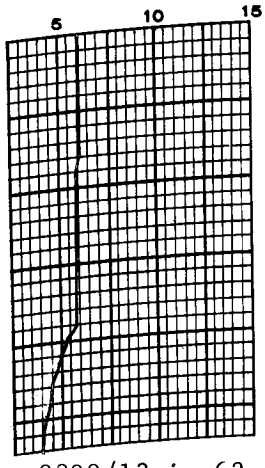
Grid OS



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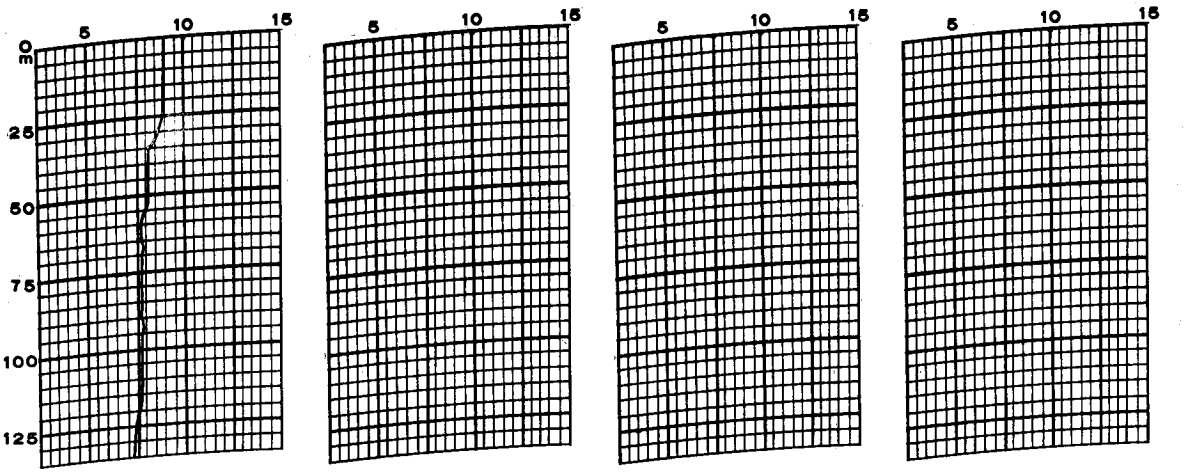
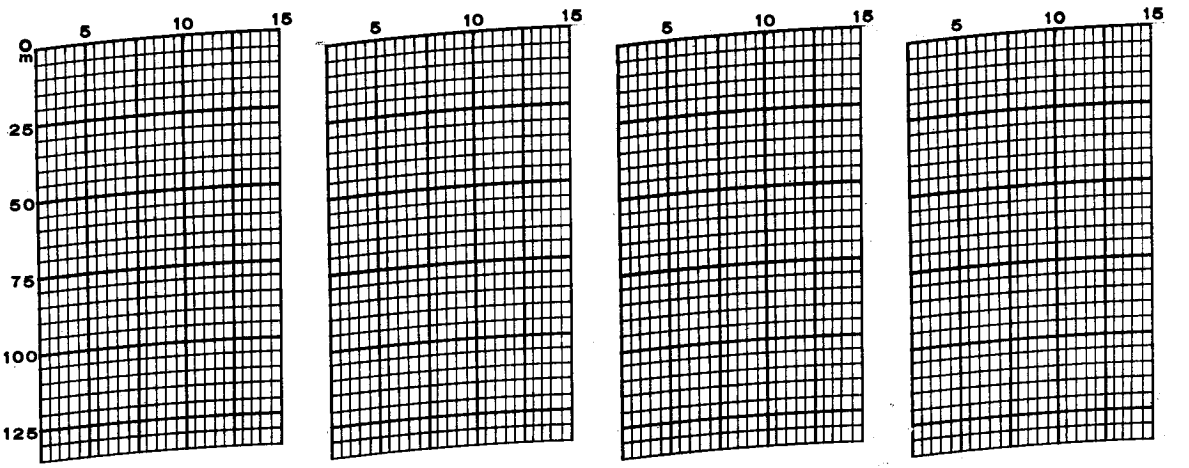
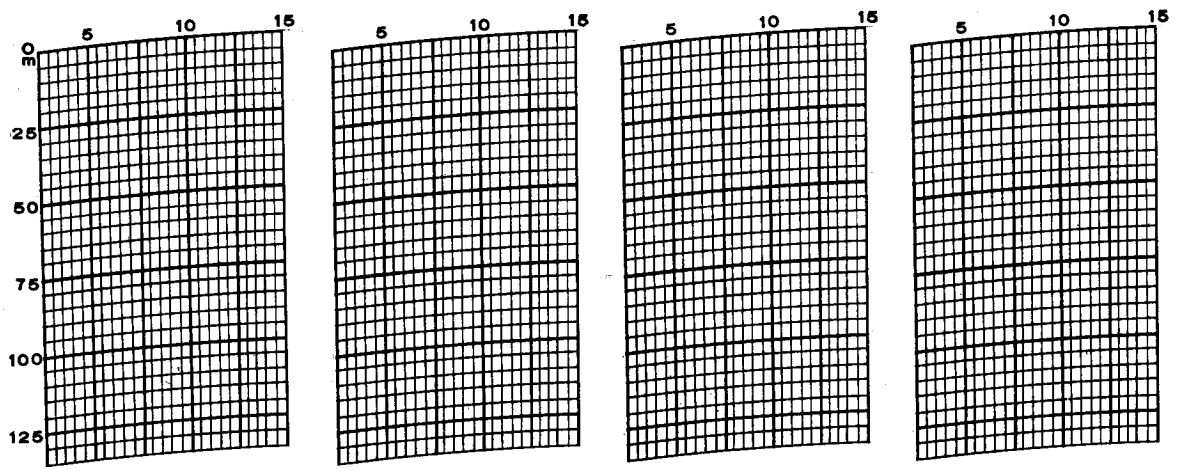
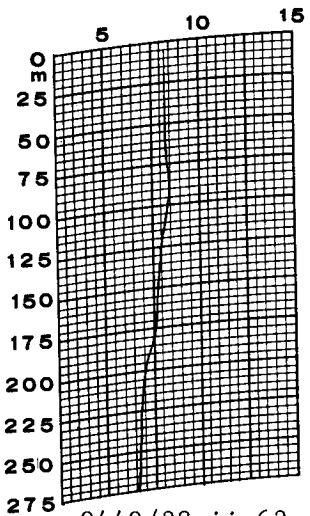
Grid OK



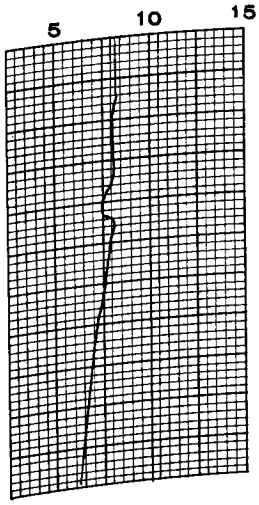
0219/16-iv-62
48° 42'n
126° 40'w
Station 1



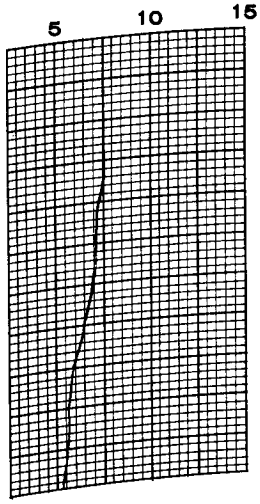




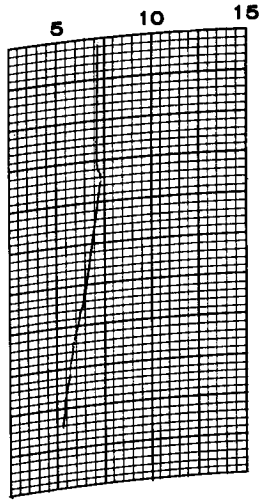
0440/28-ii-62
48° 41'n
126° 40'w
Station 1



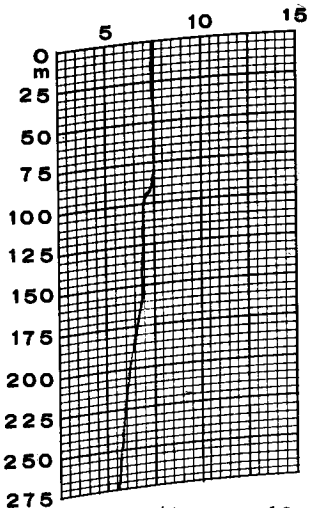
0742/28-ii-62
48° 46'n
127° 40'w



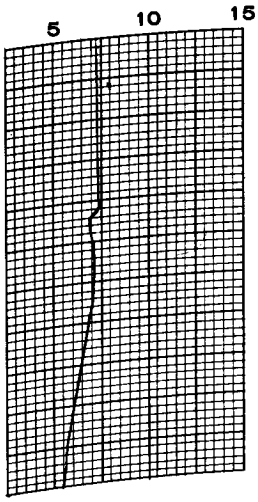
1236/28-ii-62
48° 51'n
128° 40'w
Station 2



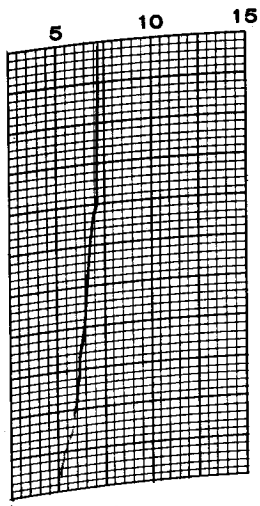
1530/28-ii-62
48° 56'n
129° 40'w



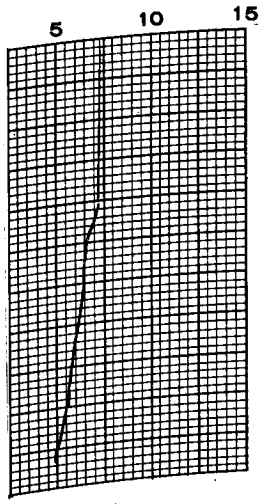
2017/28-ii-62
49° 02'n
130° 40'w
Station 3



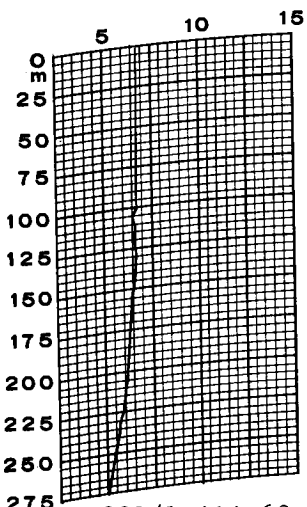
2345/28-ii-62
49° 05'n
131° 40'w



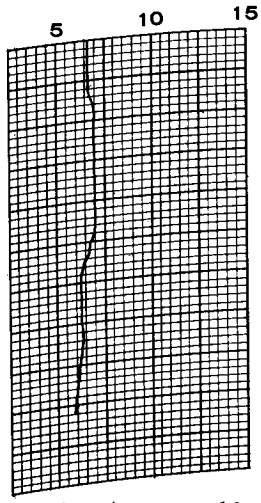
0512/1-iii-62
49° 10'n
132° 40'w
Station 4



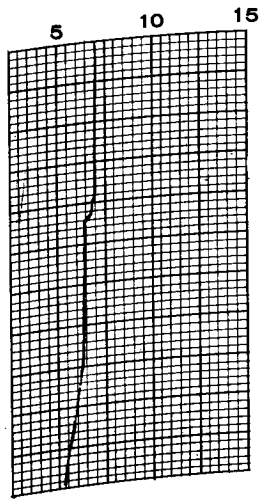
0832/1-iii-62
49° 15'n
133° 40'w



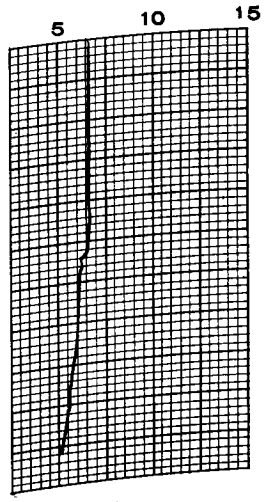
1330/1-iii-62
49° 18'n
134° 40'w
Station 4A



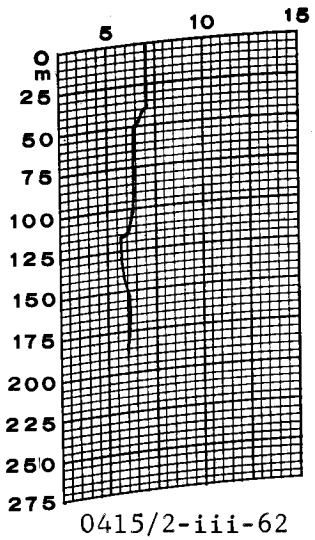
1635/1-iii-62
49° 23'n
135° 40'w



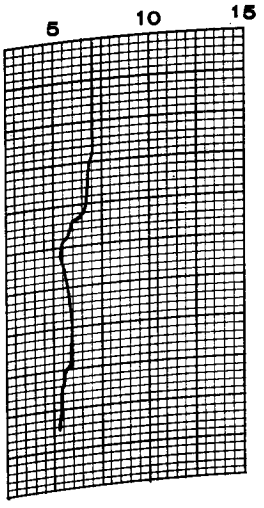
2131/1-iii-62
49° 26'n
136° 40'w
Station 5



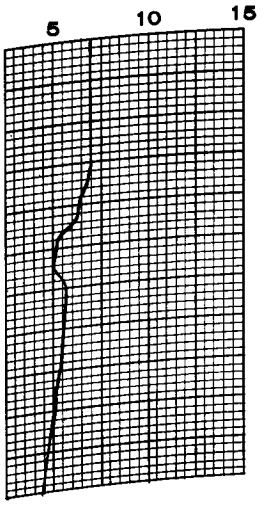
0100/2-iii-62
49° 28'n
137° 40'w



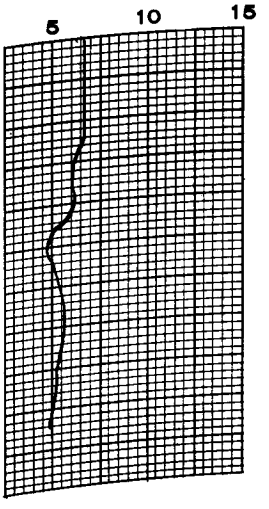
0415/2-iii-62
49° 33'n
138° 40'w



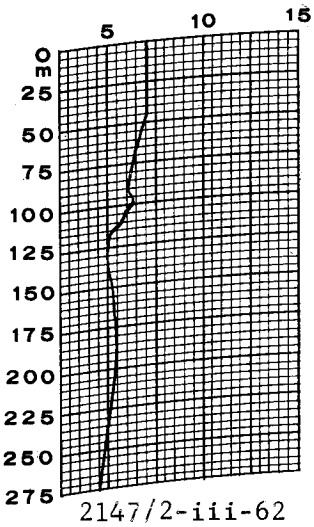
0730/2-iii-62
49° 37'n
139° 40'w



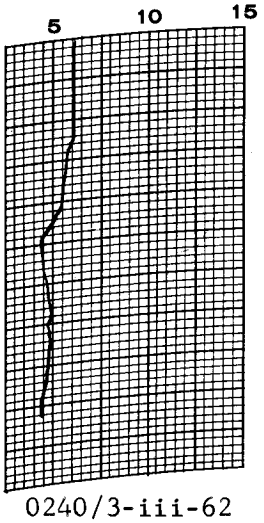
1235/2-iii-62
49° 39'n
140° 40'w
Station 6



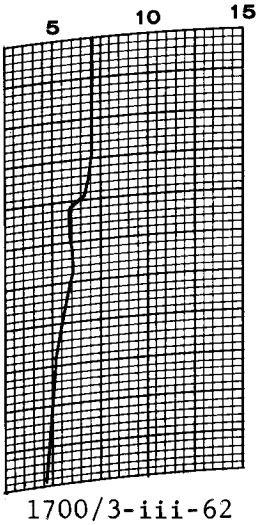
1610/2-iii-62
49° 45'n
141° 40'w



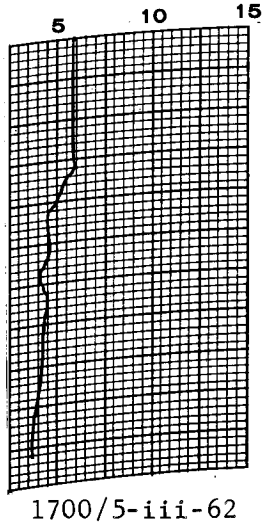
2147/2-iii-62
49° 49'n
142° 40'w
Station 6A



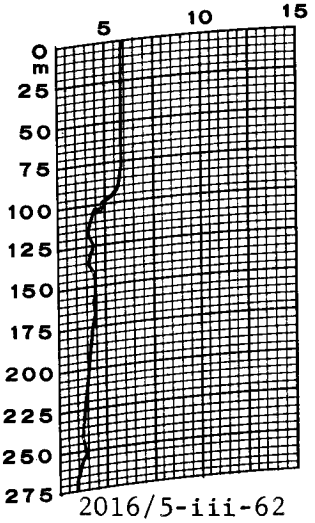
0240/3-iii-62
49° 54'n
143° 40'w



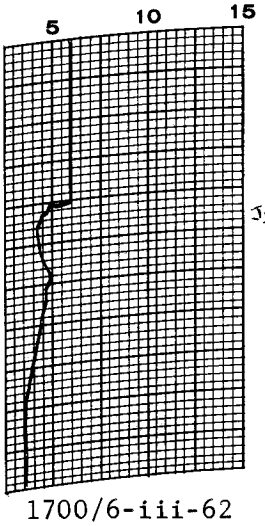
1700/3-iii-62
Grid OS



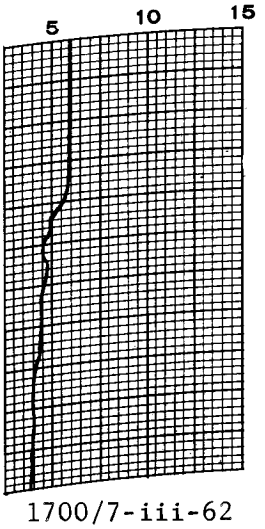
1700/5-iii-62
Grid OS



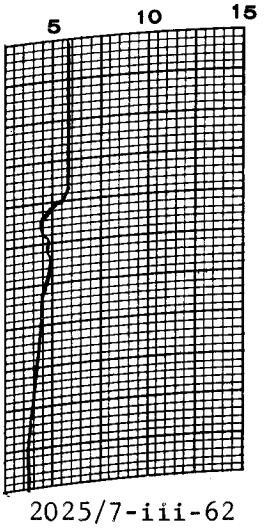
2016/5-iii-62
Grid OS
Station 101



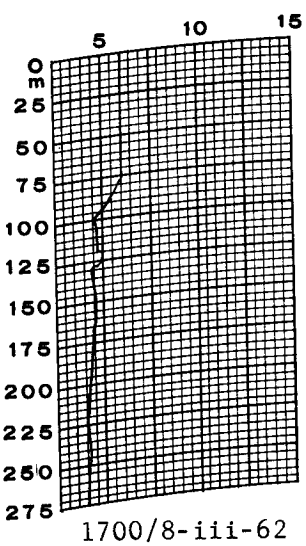
1700/6-iii-62
Grid JS



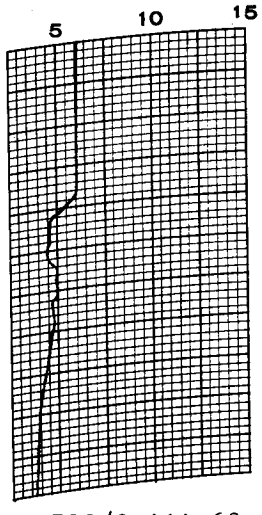
1700/7-iii-62
Grid OS



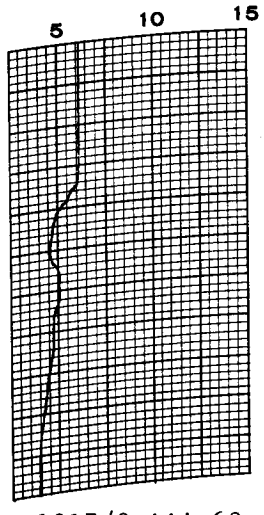
2025/7-iii-62
Grid OS
Station 102



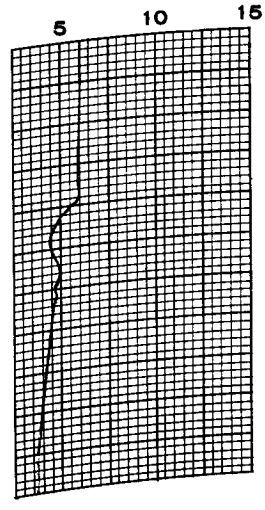
1700/8-iii-62
Grid OS



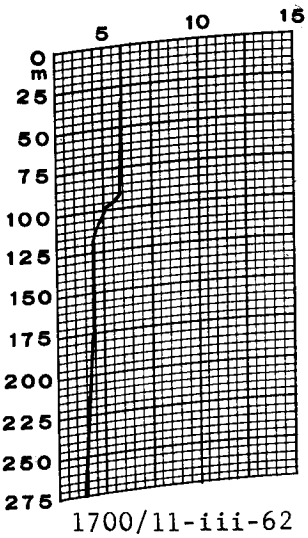
1700/9-iii-62
Grid OS



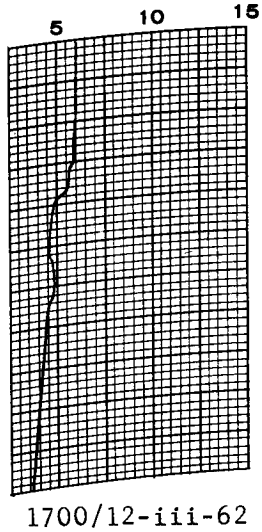
1917/9-iii-62
Grid OS
Station 103



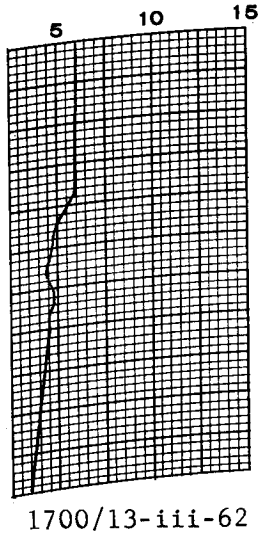
1700/10-iii-62
Grid OS



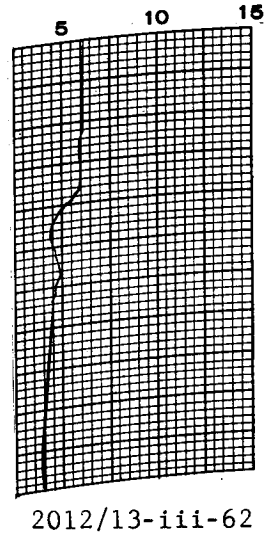
1700/11-iii-62
Grid OS



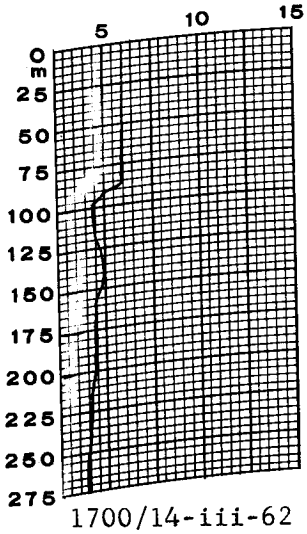
1700/12-iii-62
Grid OS



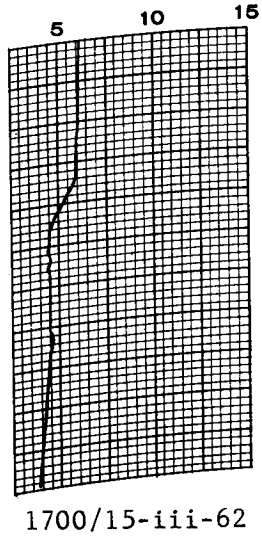
1700/13-iii-62
Grid OS



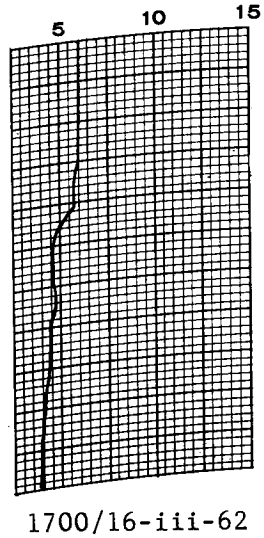
2012/13-iii-62
Grid OS
Station 104



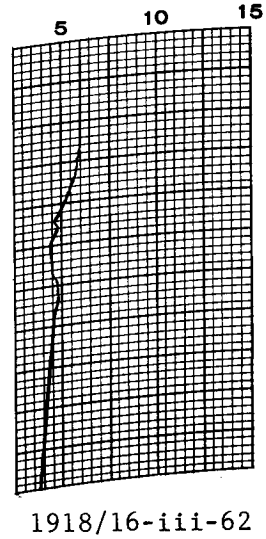
1700/14-iii-62
Grid OS



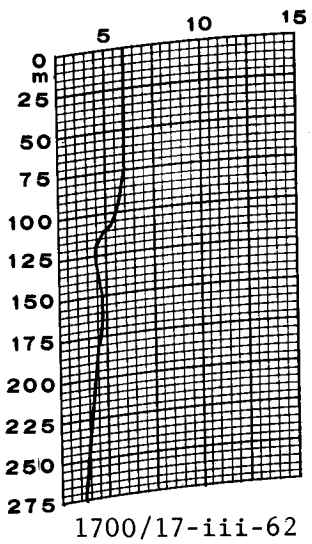
1700/15-iii-62
Grid OS



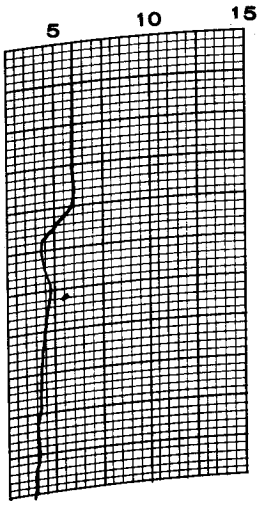
1700/16-iii-62
Grid OS



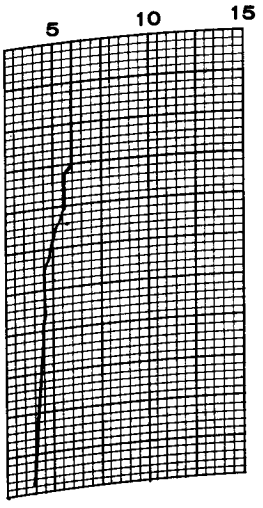
1918/16-iii-62
Grid OS
Station 105



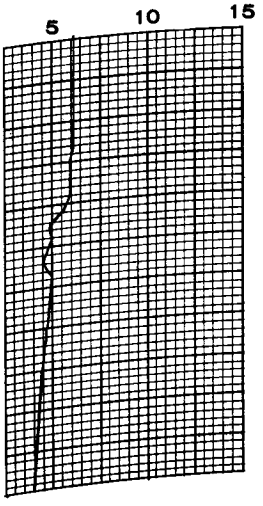
1700/17-iii-62
Grid OS



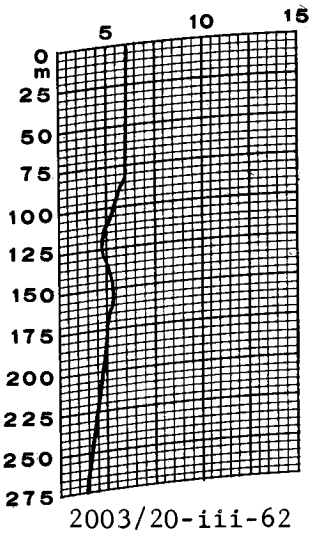
1700/18-iii-62
Grid OS



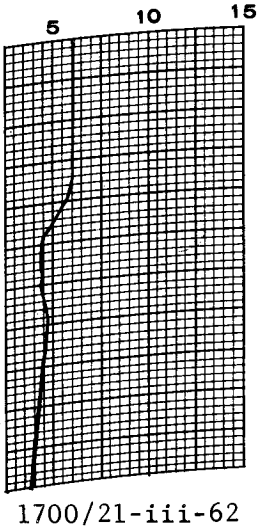
1700/19-iii-62
Grid OS



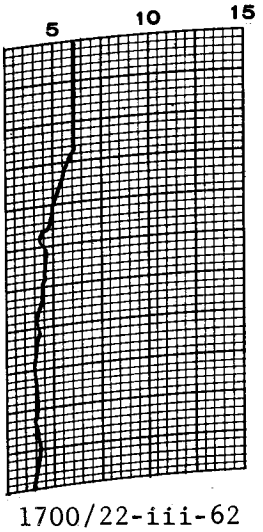
1700/20-iii-62
Grid OS



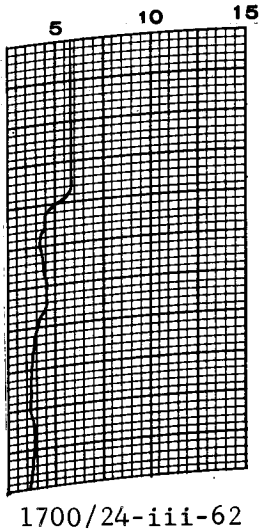
2003/20-iii-62
Grid OK
Station 106



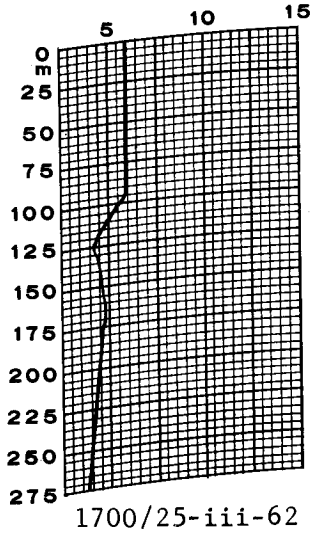
1700/21-iii-62
Grid OS



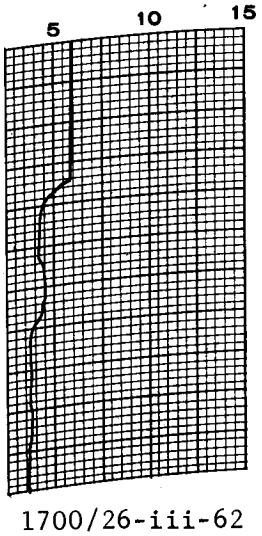
1700/22-iii-62
Grid OS



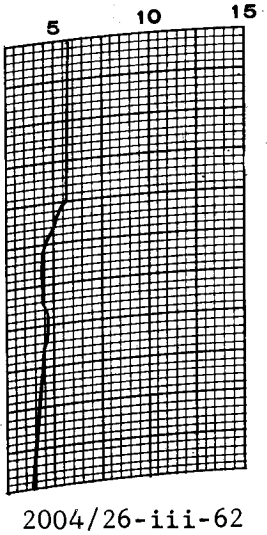
1700/24-iii-62
Grid OS



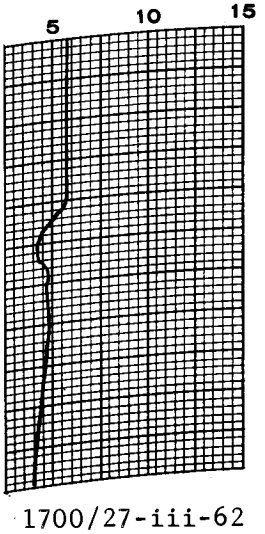
1700/25-iii-62
Grid OS



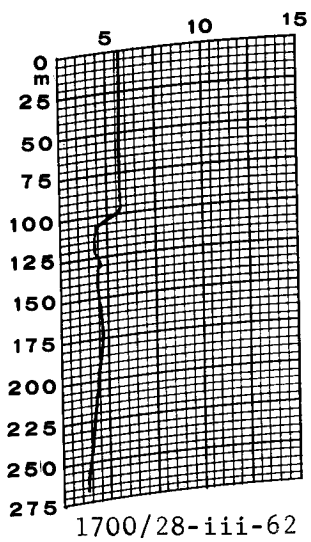
1700/26-iii-62
Grid OS



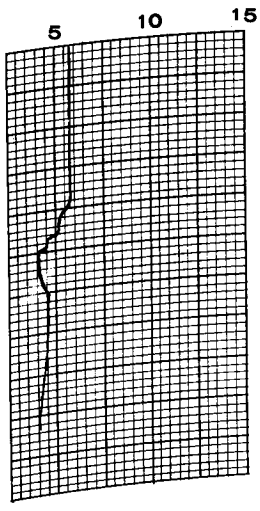
2004/26-iii-62
Grid OS
Station 107



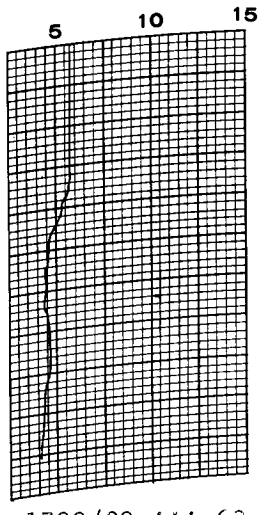
1700/27-iii-62
Grid OS



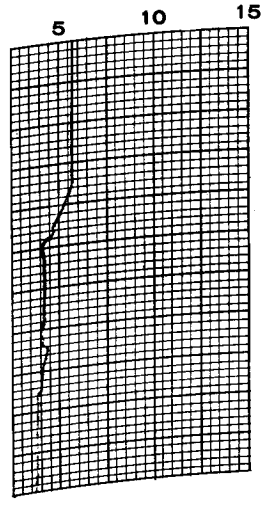
1700/28-iii-62
Grid OS



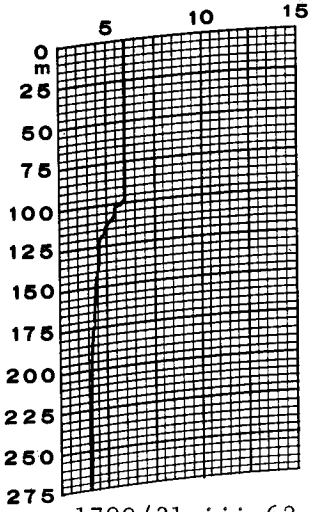
1700/29-iii-62
Grid OS



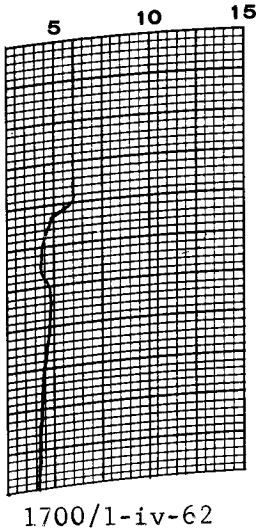
1700/30-iii-62
Grid OS



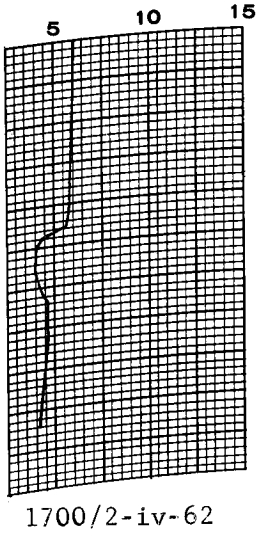
1909/30-iii-62
Grid OS
Station 108



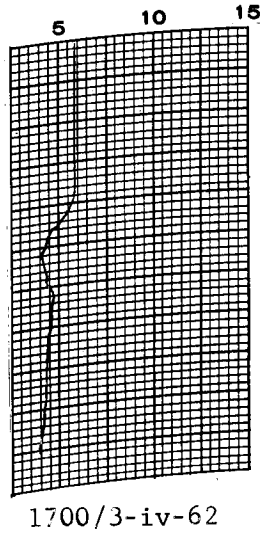
1700/31-iii-62
Grid OS



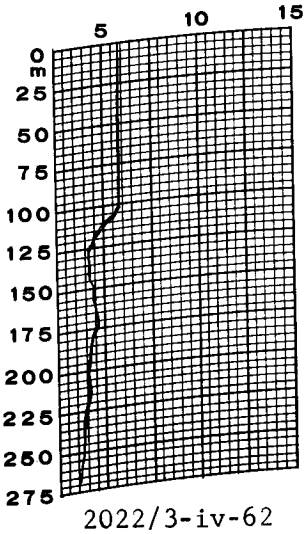
1700/1-iv-62
Grid OS



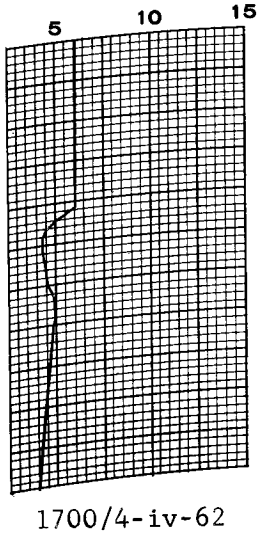
1700/2-iv-62
Grid OS



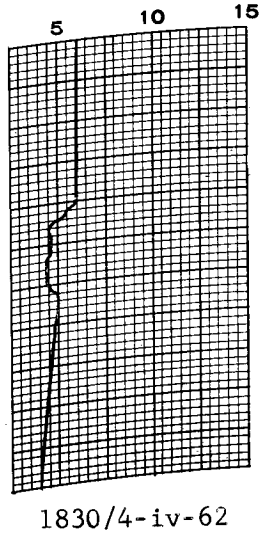
1700/3-iv-62
Grid OS



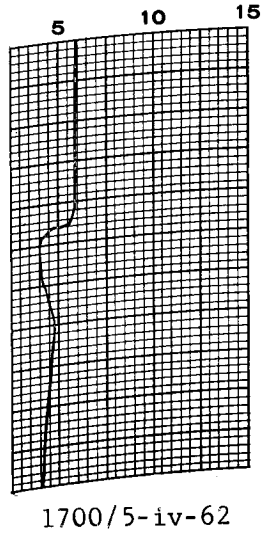
2022/3-iv-62
Grid OS
Station 109



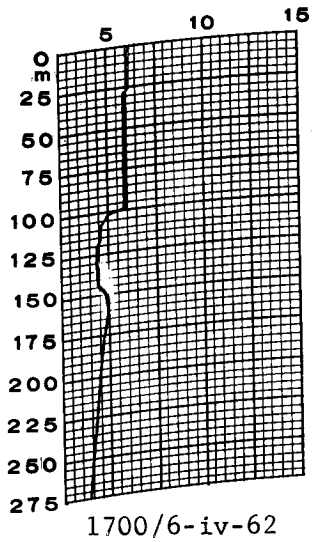
1700/4-iv-62
Grid OS



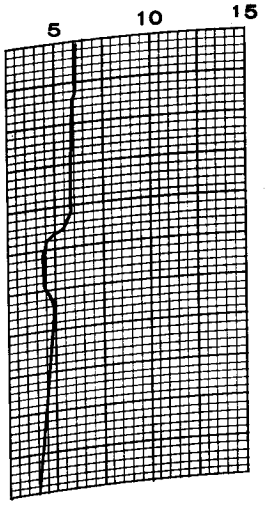
1830/4-iv-62
Grid OS
Station 110



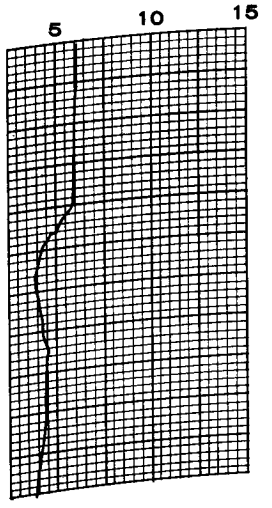
1700/5-iv-62
Grid OS



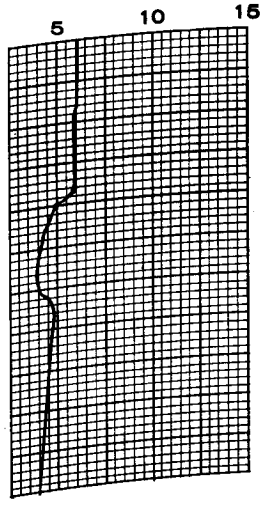
1700/6-iv-62
Grid OS



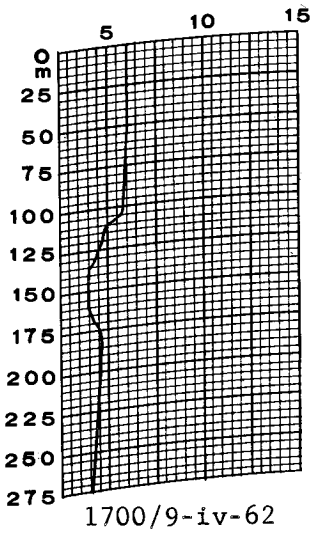
1952/6-iv-62
Grid OS
Station 111



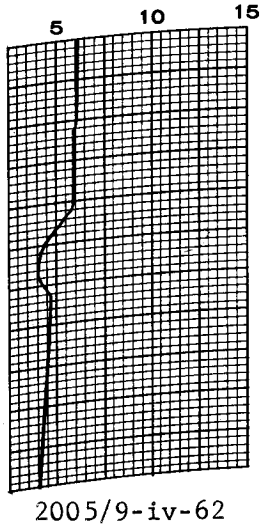
1700/7-iv-62
Grid OS



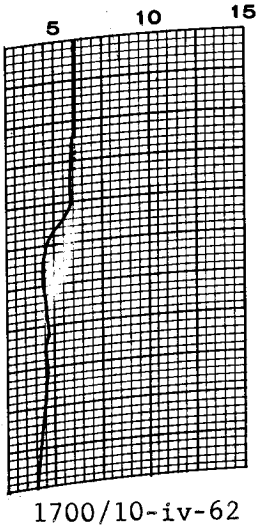
1700/ 8-iv-62
Grid OS



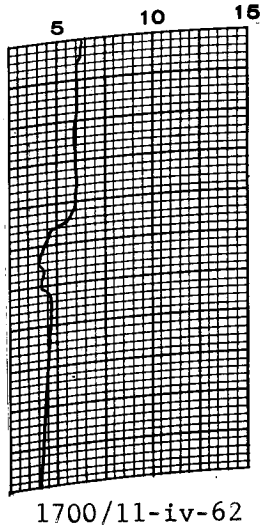
1700/9-iv-62
Grid OS



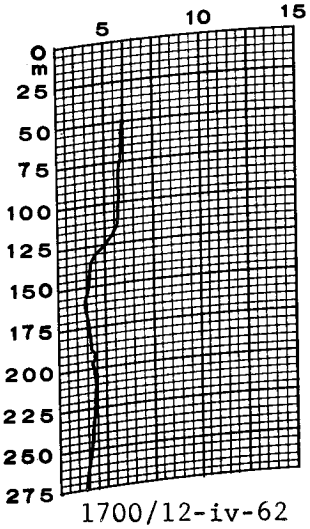
2005/9-iv-62
Grid OS
Station 112



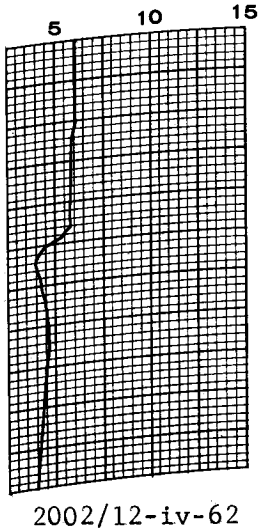
1700/10-iv-62
Grid OS



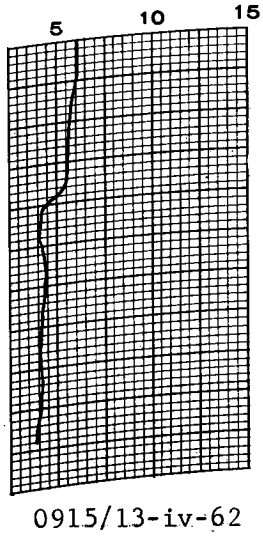
1700/11-iv-62
Grid OS



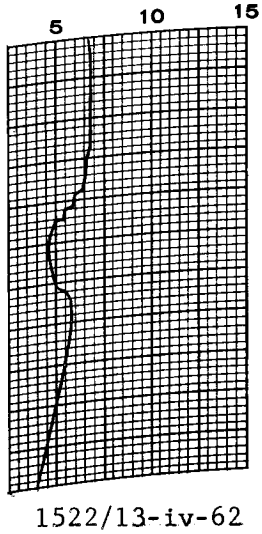
1700/12-iv-62
Grid OS



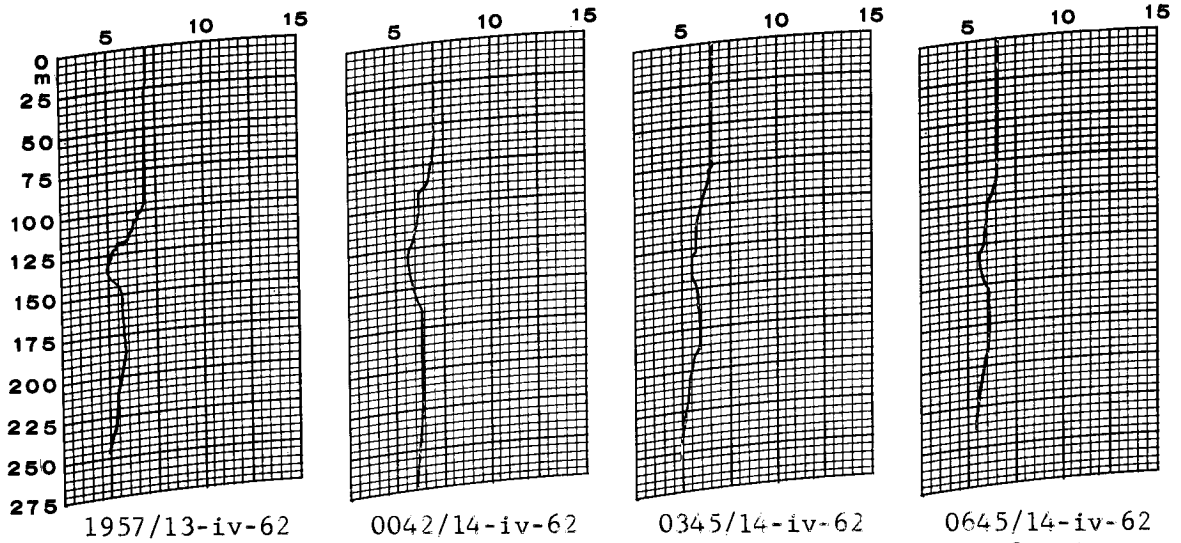
2002/12-iv-62
Grid OS
Station 113



0915/13-iv-62
49° 51'n
143° 40'w



1522/13-iv-62
49° 50'n
142° 40'w
Station 6A



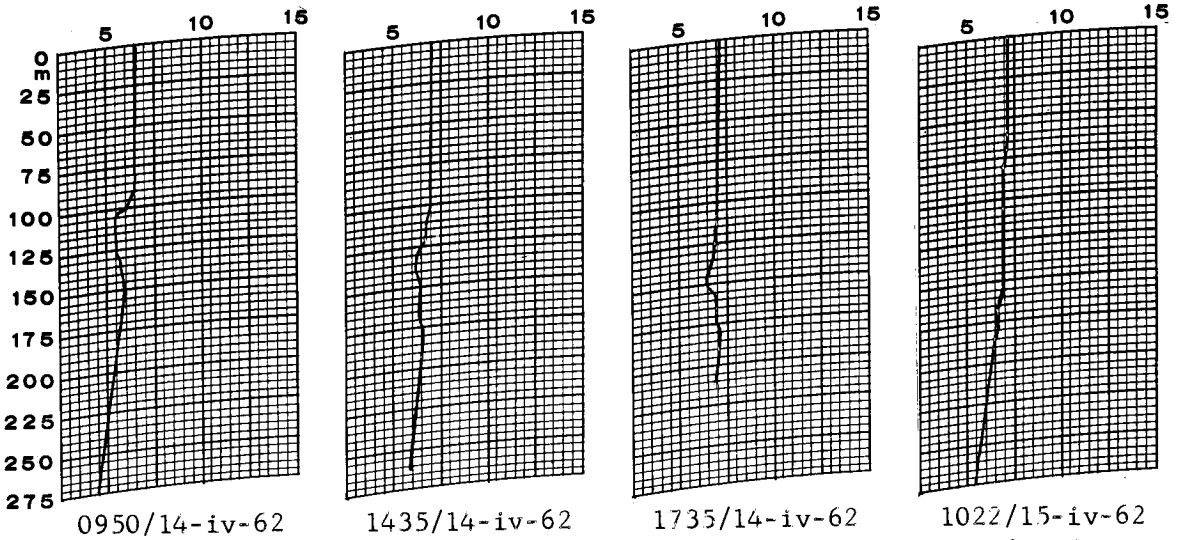
1957/13-iv-62
49° 45'n
141° 40'w

0042/14-iv-62
49° 41'n
140° 40'w

0345/14-iv-62
49° 37'n
139° 40'w

0645/14-iv-62
49° 33'n
138° 40'w

Station 6



0950/14-iv-62
49° 31'n
137° 40'w

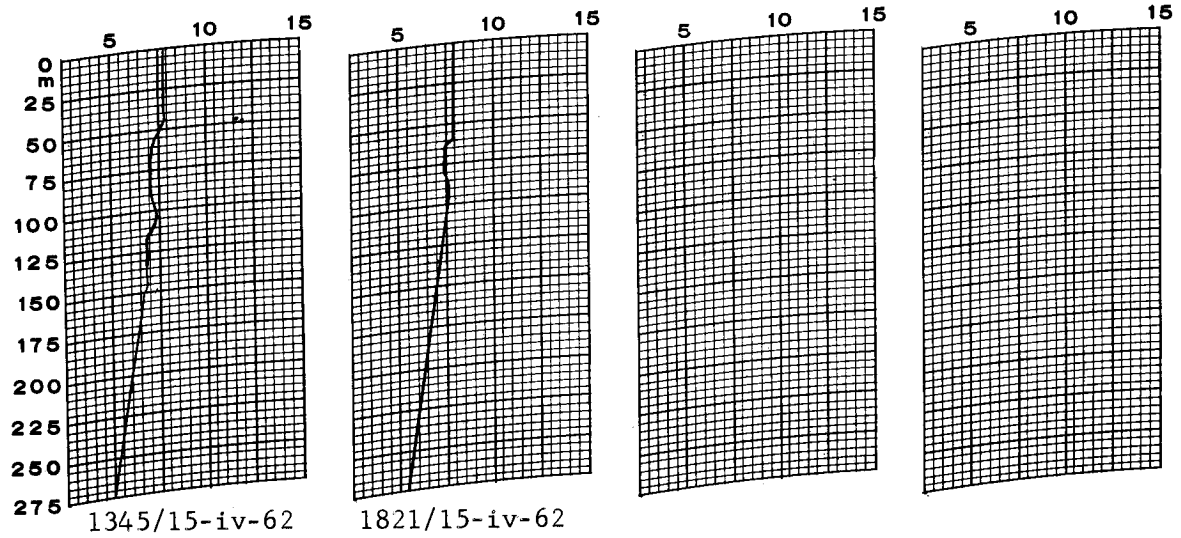
1435/14-iv-62
49° 26'n
136° 40'w

1735/14-iv-62
49° 23'n
135° 40'w

1022/15-iv-62
49° 01'n
130° 40'w

Station 5

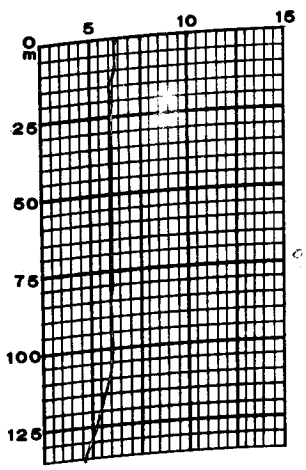
Station 3



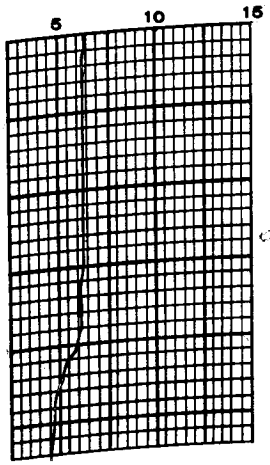
1345/15-iv-62
48° 56'n
129° 40'w

1821/15-iv-62
48° 51'n
128° 40'w

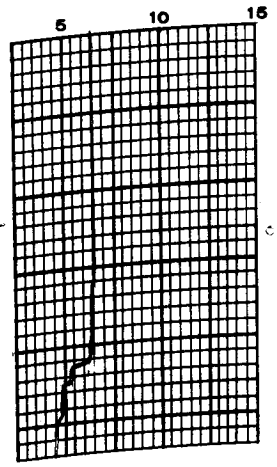
Patrol No. 51, C.C.G.S. "Stonetown"



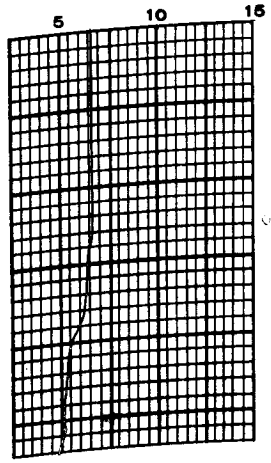
0030/16-iv-62
Grid OS



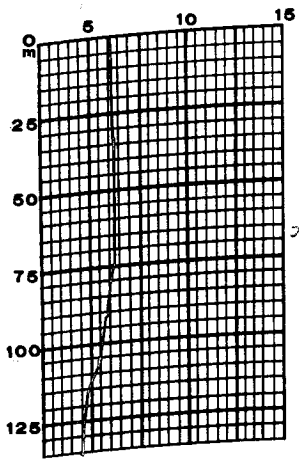
0100/17-iv-62
Grid OJ



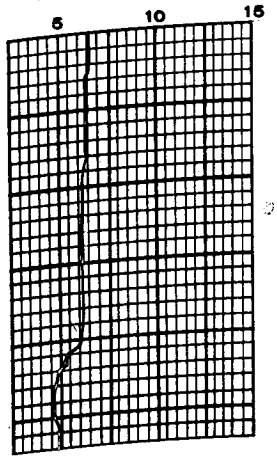
0100/18-iv-62
Grid OS



0100/20-iv-62
Grid OK



0100/21-iv-62
Grid OS



0100/22-iv-62
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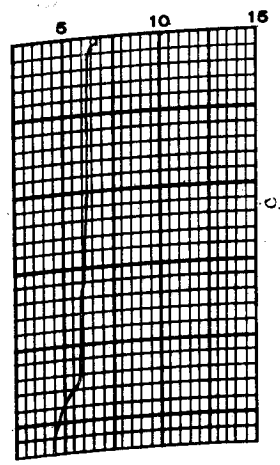

0100/23-iv-62
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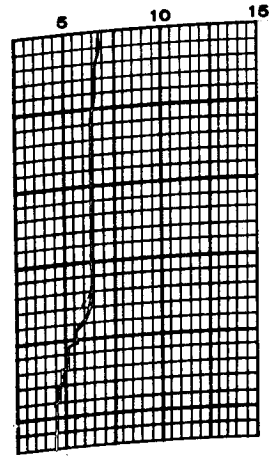

0100/24-iv-62
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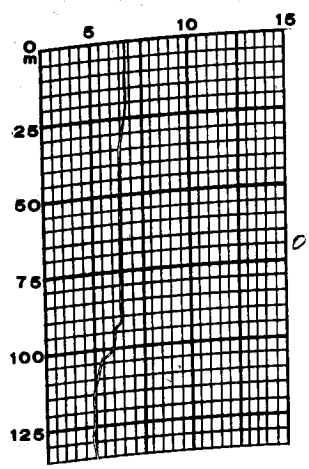
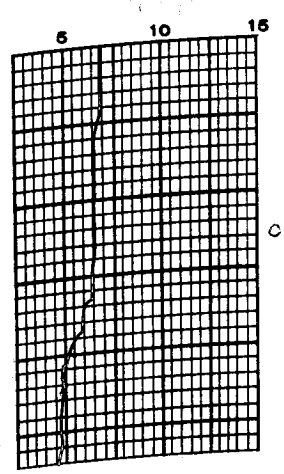
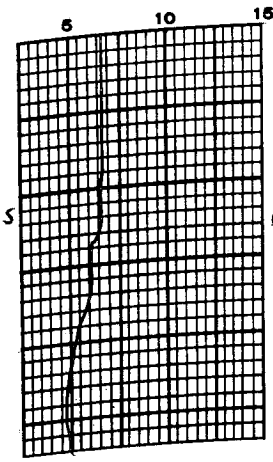


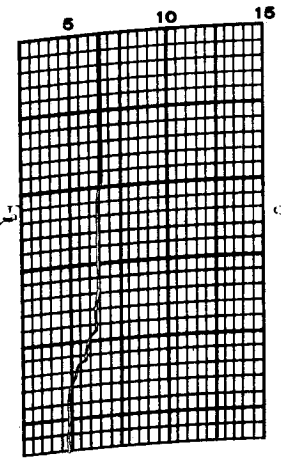
0100/25-iv-62
Grid OS



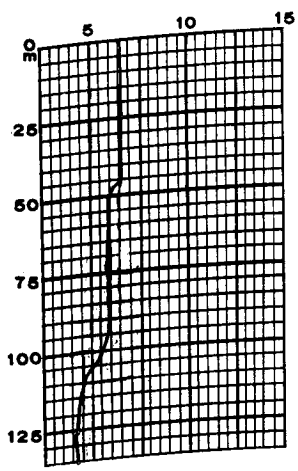
0100/26-iv-62
Grid OS



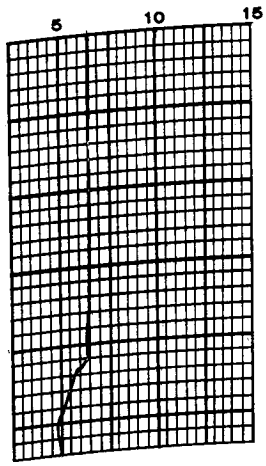
0100/27-iv-62
Grid KS



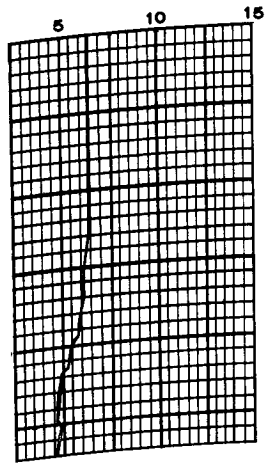
0100/28-iv-62
Grid OS



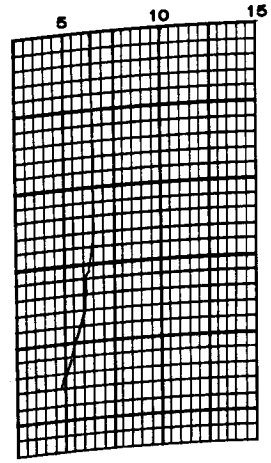
0100/29-iv-62
Grid OJ



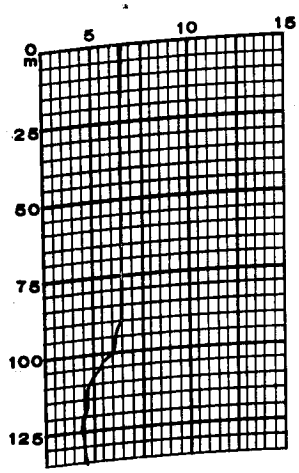
0100/30-iv-62
Grid OS



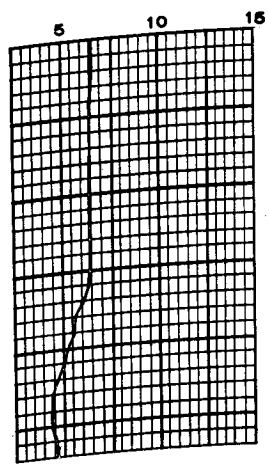
0100/1-v-62
Grid JJ



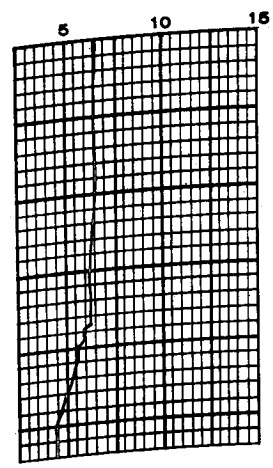
0100/2-v-62
Grid OS



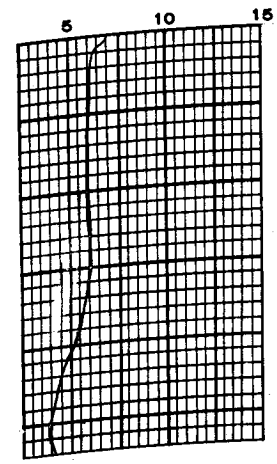
0100/3-v-62
Grid OS



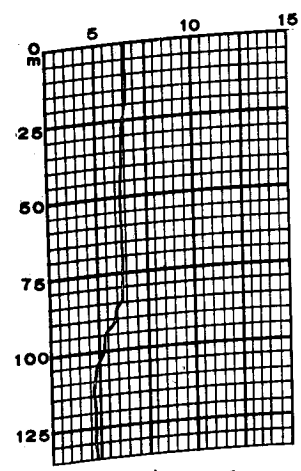
0100/4-v-62
Grid OS



0100/5-v-62
Grid OS



0100/6-v-62
Grid KK



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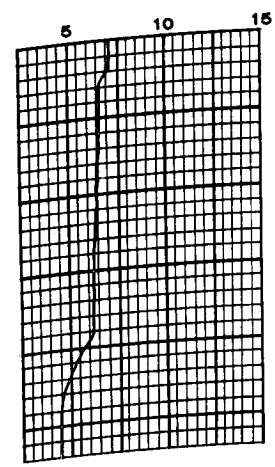
Grid OS



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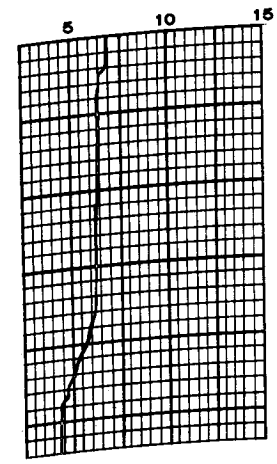
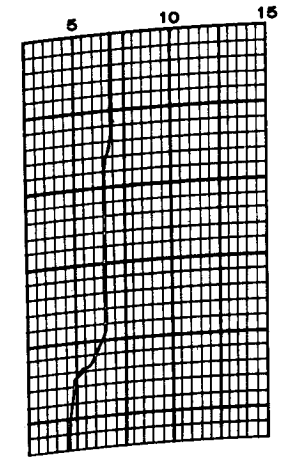
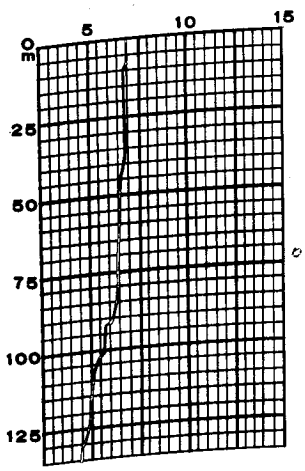
Grid OS



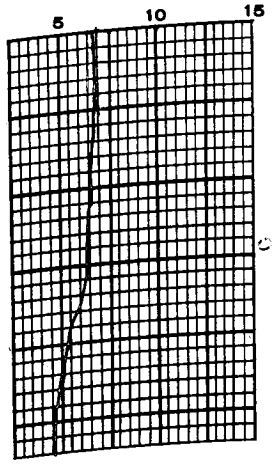
0100/9-v-62
Grid OS



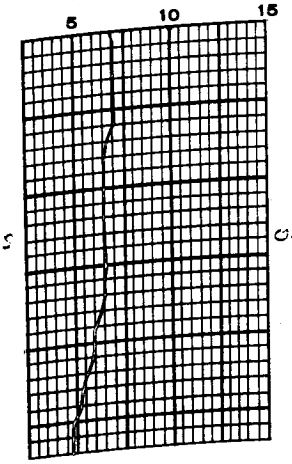
0100/10-v-62
Grid OS



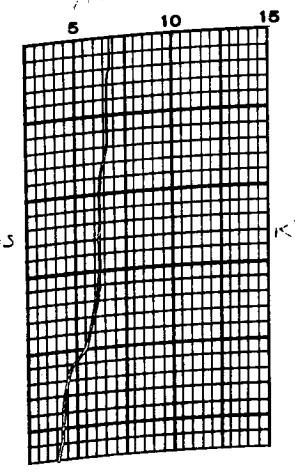
0100/11-v-62
Grid OS



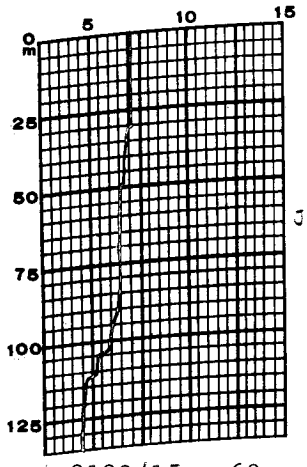
0100/12-v-62
Grid OS



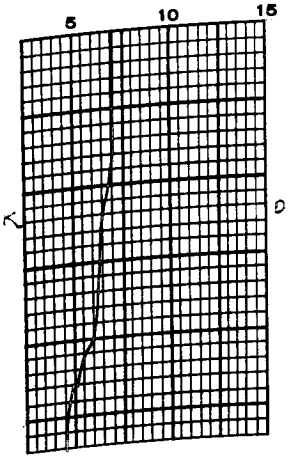
0100/13-v-62
Grid OS



0100/14-v-62
Grid KJ



0100/15-v-62
Grid JK



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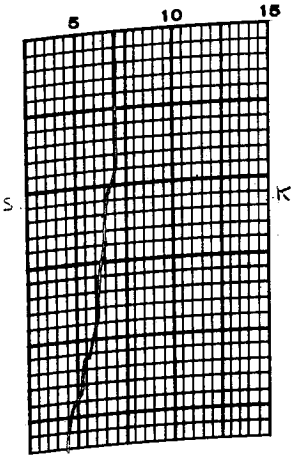
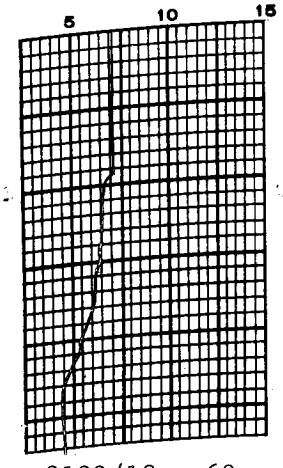
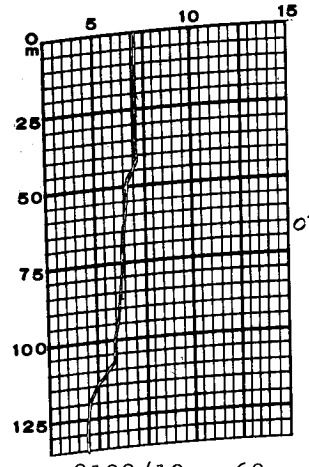
Grid OS



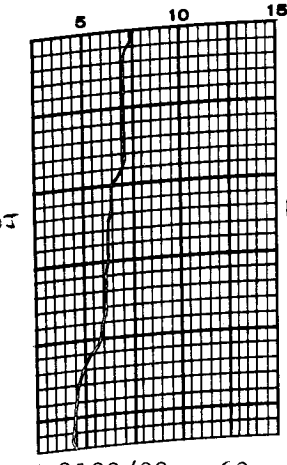
0100/17-v-62
Grid KS



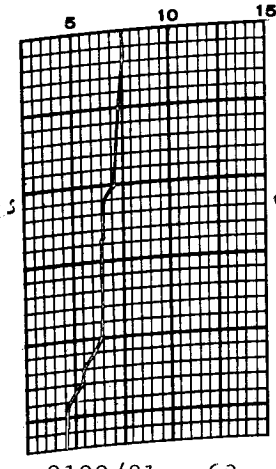
0100/18-v-62
Grid OJ



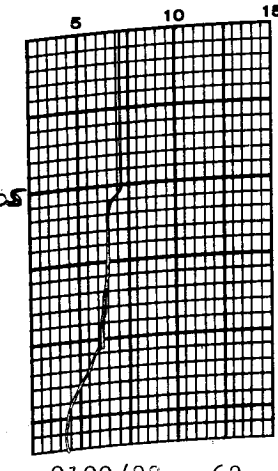
0100/19-v-62
Grid OJ



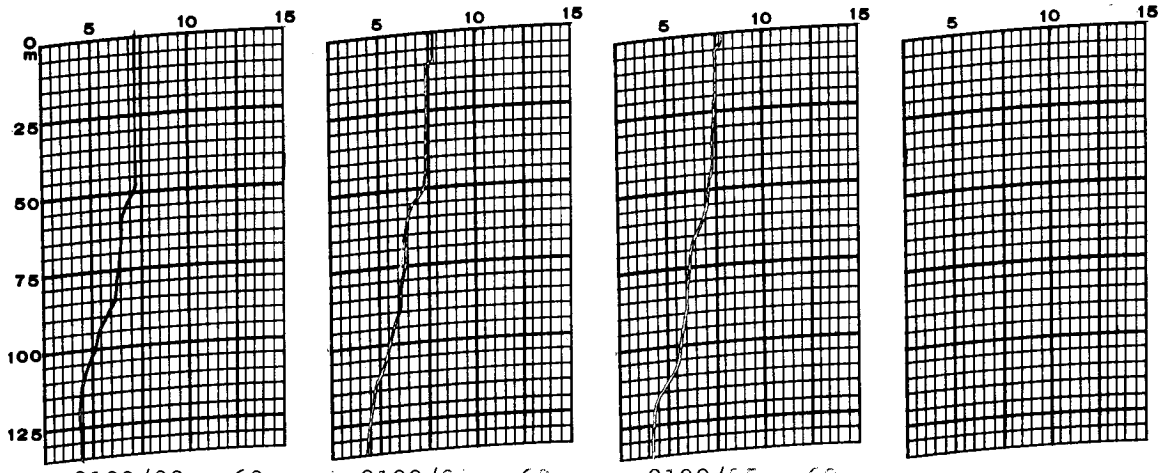
0100/20-v-62
Grid KS



0100/21-v-62
Grid OS



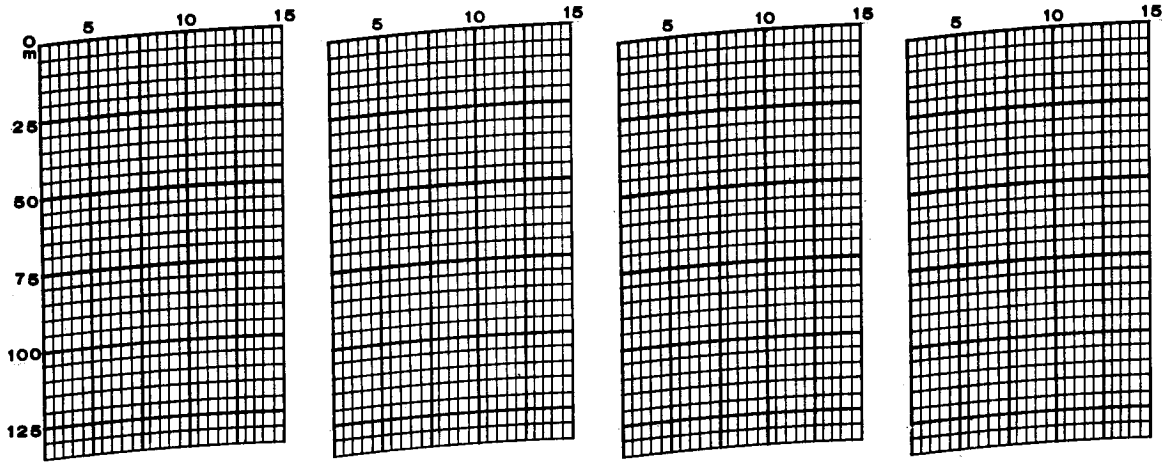
0100/22-v-62
Grid OS

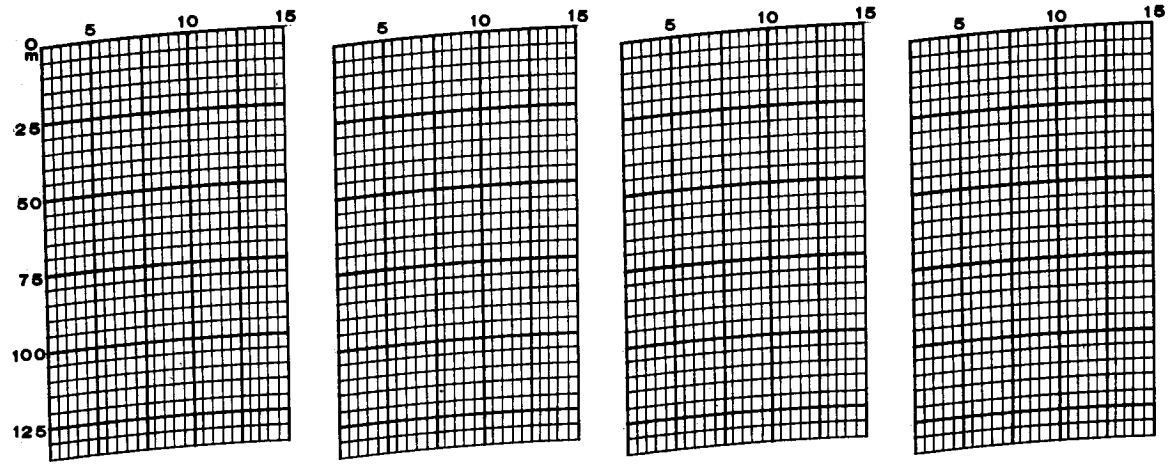


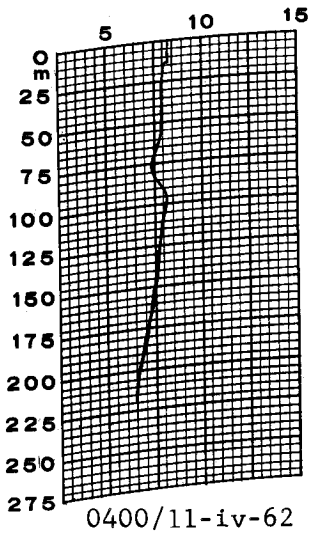
0100/23-v-62
Grid OS

0100/24-v-62
Grid OS

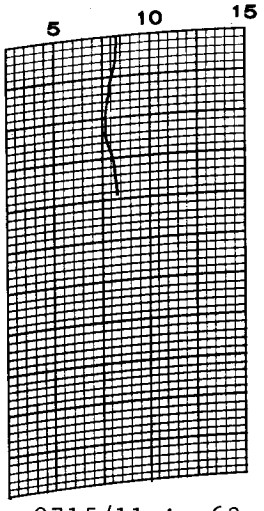
0100/25-v-62
Grid OS



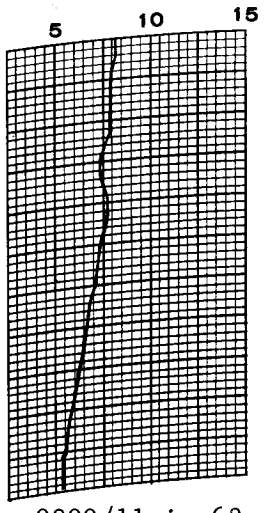




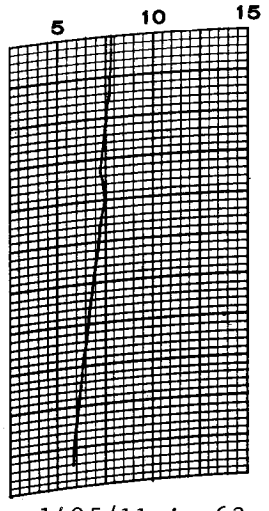
0400/11-iv-62
48° 40'n
126° 40'w



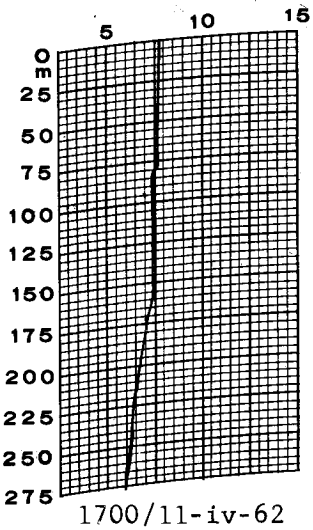
0715/11-iv-62
48° 42'n
127° 40'w



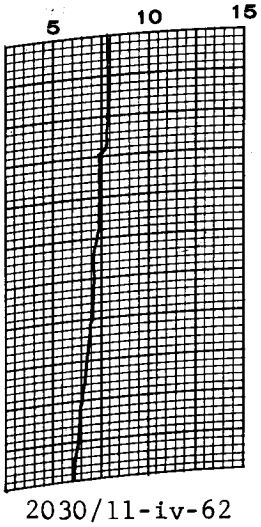
0900/11-iv-62
48° 50'n
128° 40'w



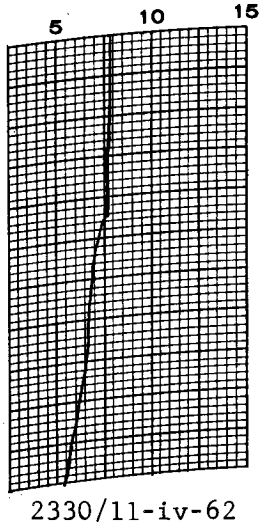
1405/11-iv-62
48° 54'n
129° 42'w



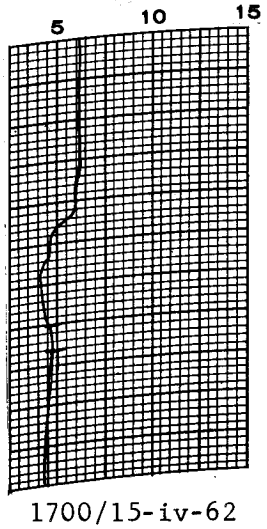
1700/11-iv-62
48° 58'n
130° 40'w



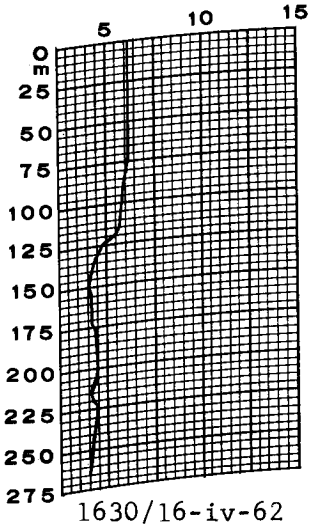
2030/11-iv-62
49° 05'n
131° 40'w



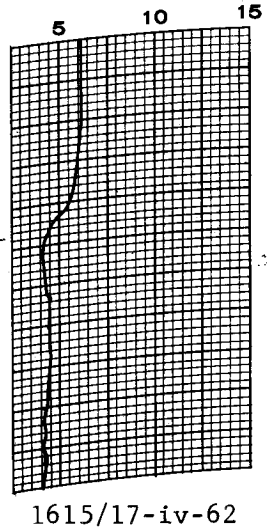
2330/11-iv-62
49° 08'n
132° 40'w



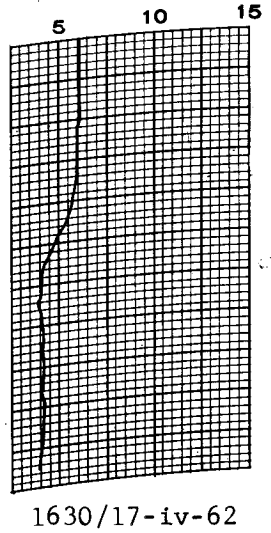
1700/15-iv-62
Grid OS



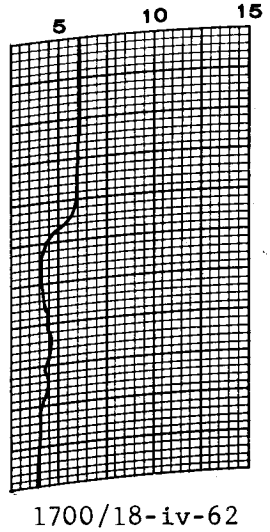
1630/16-iv-62
Grid OJ



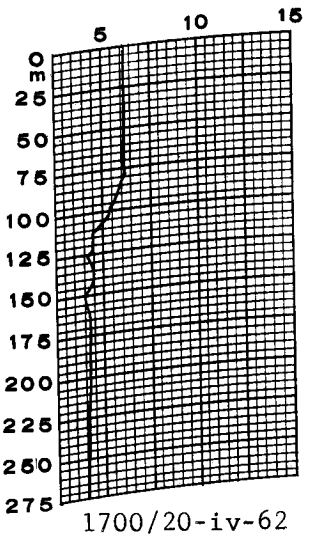
1615/17-iv-62
Grid OJ



1630/17-iv-62
Grid OS



1700/18-iv-62
Grid OJ



1700/20-iv-62
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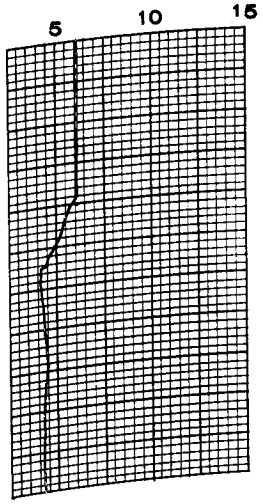
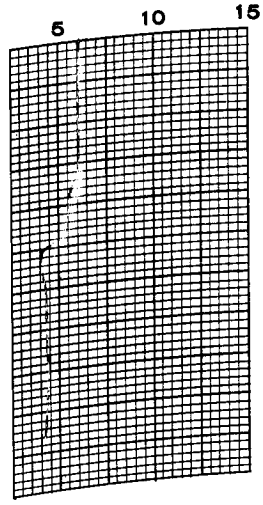
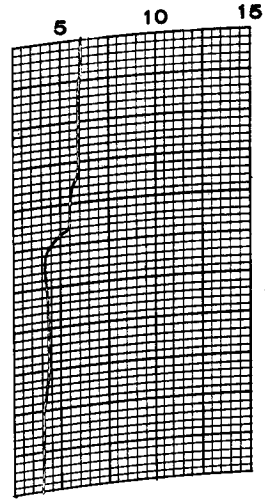
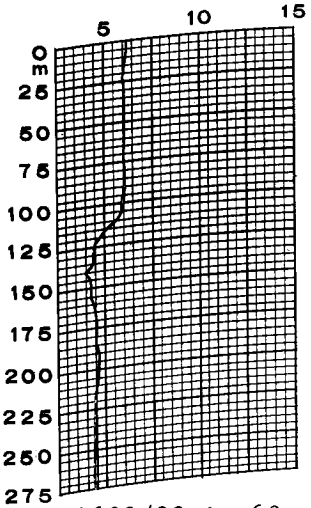


1630/21-iv-62
Grid OS

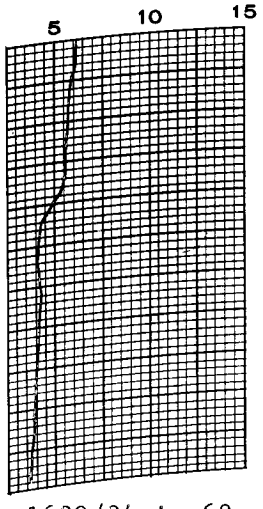




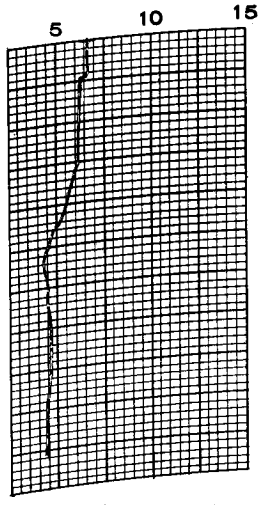
1630/22-iv-62
Grid JS



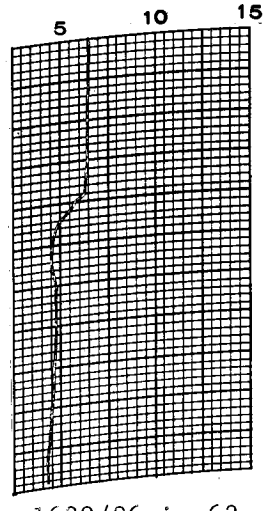
1630/23-iv-62
Grid OK



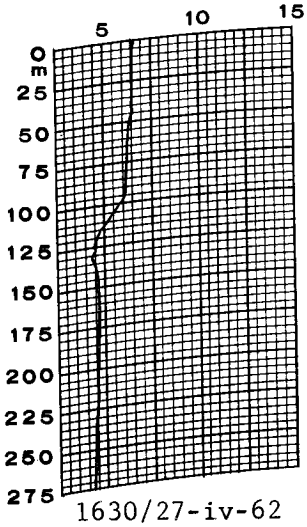
1630/24-iv-62
Grid KS



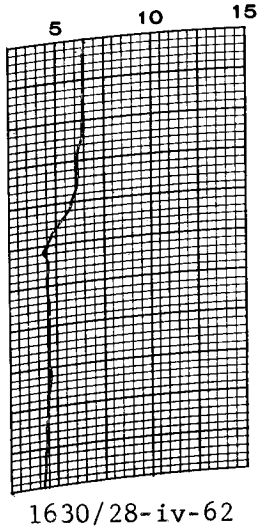
1630/25-iv-62
Grid O



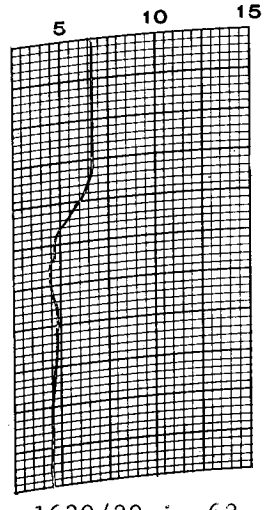
1630/26-iv-62
Grid OS



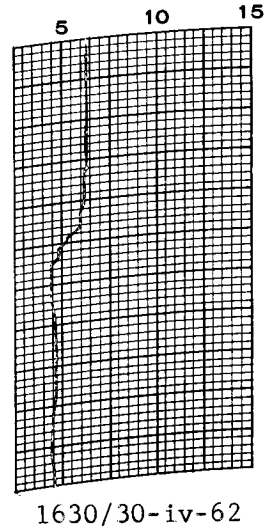
1630/27-iv-62
Grid OS



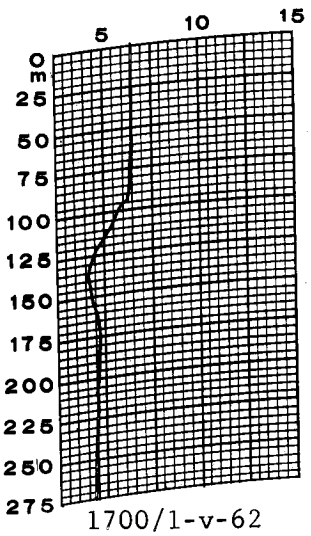
1630/28-iv-62
Grid OS



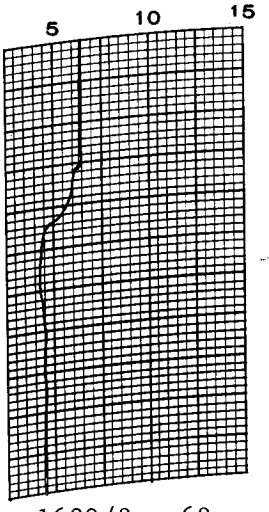
1630/29-iv-62
Grid JS



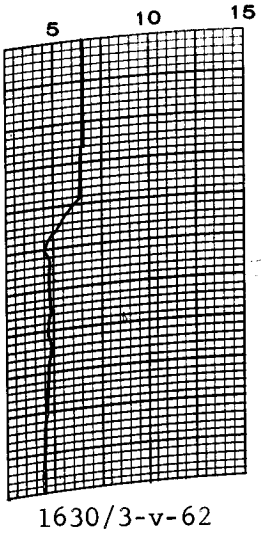
1630/30-iv-62
Grid OJ



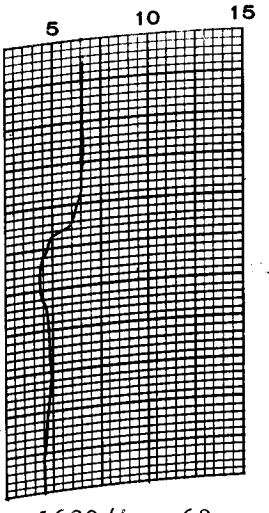
1700/1-v-62
Grid OS



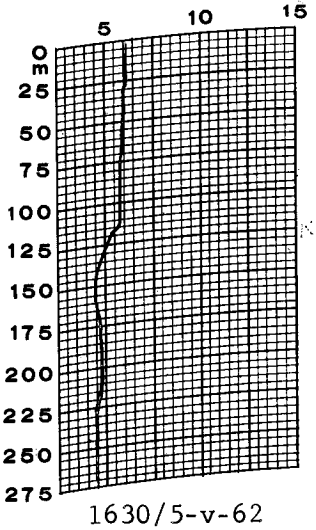
1630/2-v-62
Grid OJ



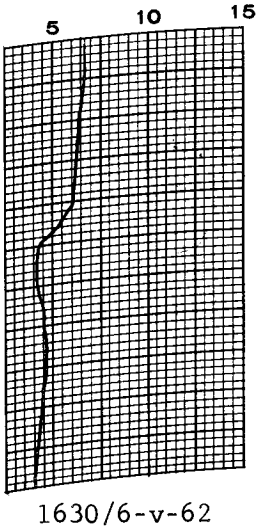
1630/3-v-62
Grid JS



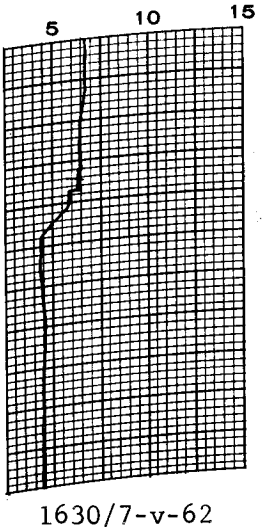
1630/4-v-62
Grid OS



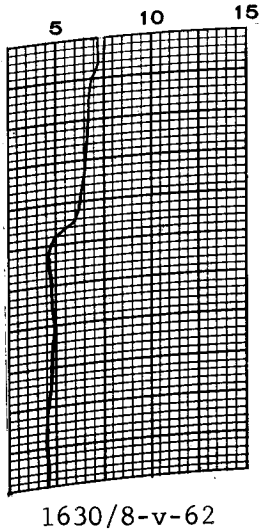
1630/5-v-62
Grid KS



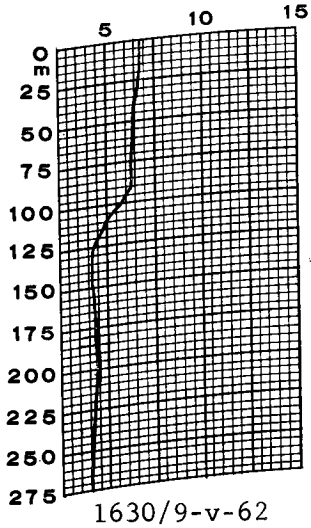
1630/6-v-62
Grid OS



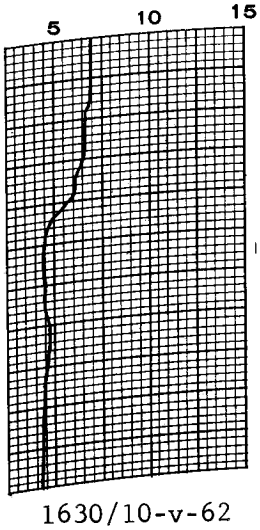
1630/7-v-62
Grid OS



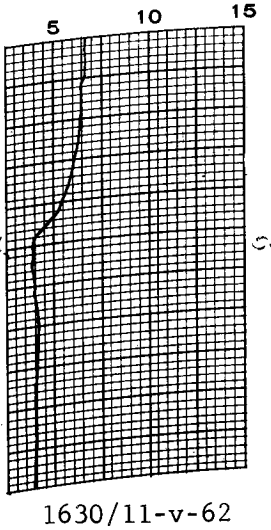
1630/8-v-62
Grid KJ



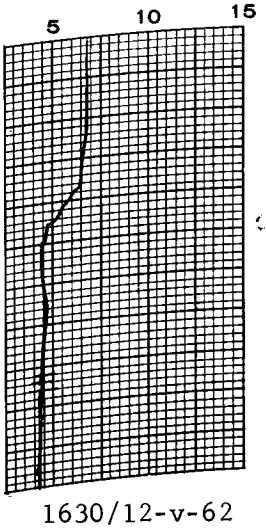
1630/9-v-62
Grid OJ



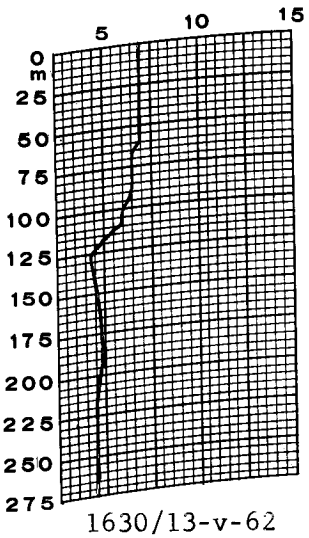
1630/10-v-62
Grid KK



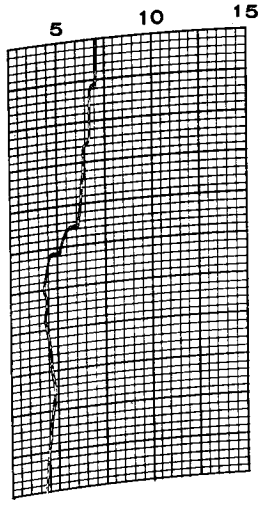
1630/11-v-62
Grid OS



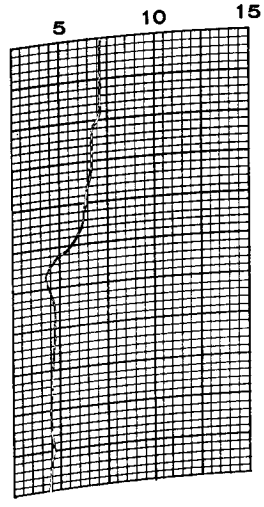
1630/12-v-62
Grid OS



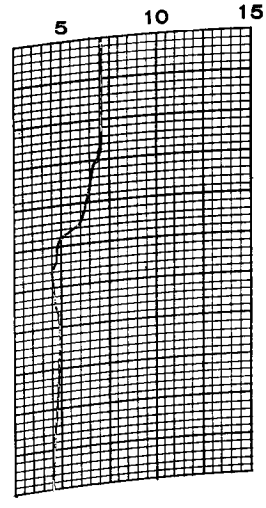
1630/13-v-62
Grid OS



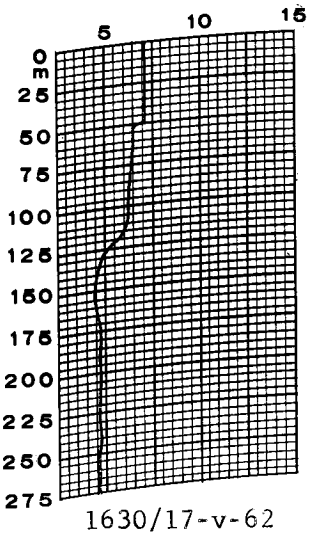
1630/14-v-62
Grid KJ



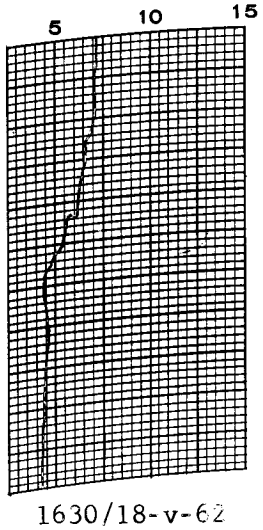
1630/15-v-62
Grid KJ



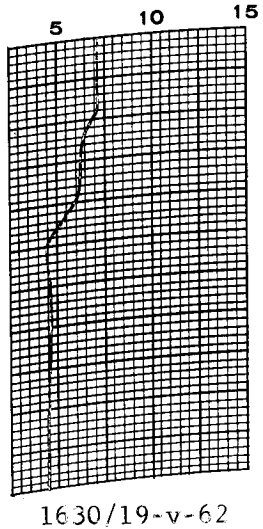
1630/16-v-62
Grid OK



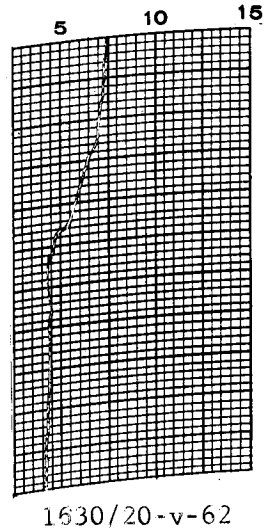
1630/17-v-62
Grid KS



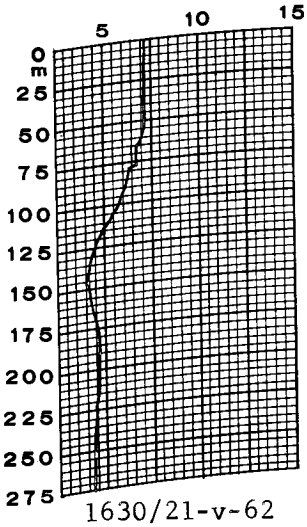
1630/18-v-62
Grid OS



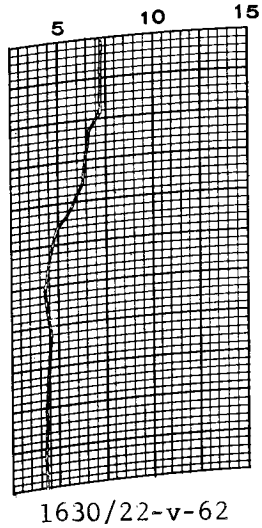
1630/19-v-62
Grid OS



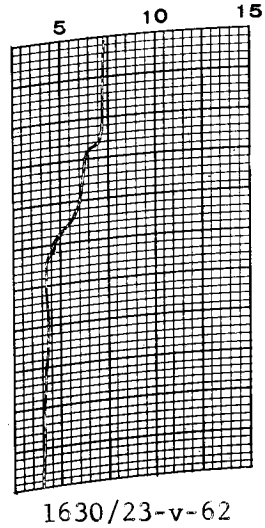
1630/20-v-62
Grid OS



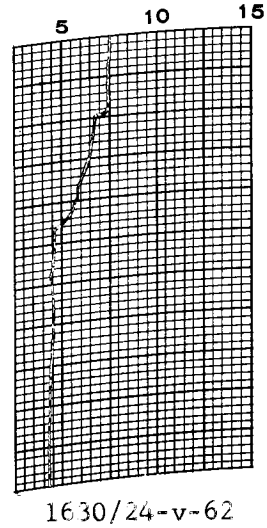
1630/21-v-62
Grid JJ



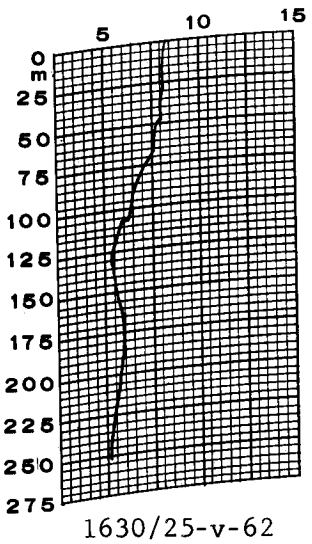
1630/22-v-62
Grid OS



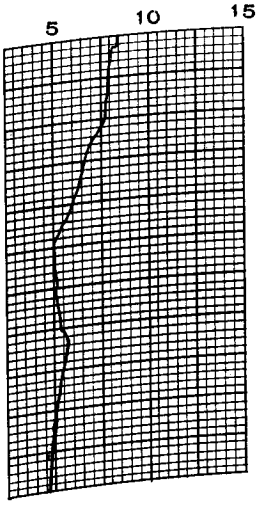
1630/23-v-62
Grid OS



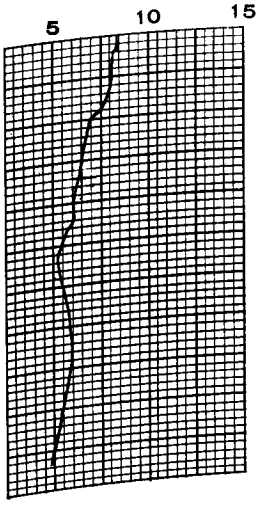
1630/24-v-62
Grid OS



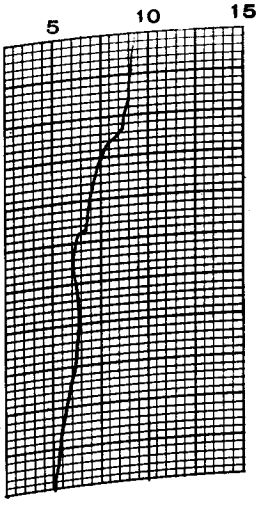
1630/25-v-62
49° 51'n
142° 40'w



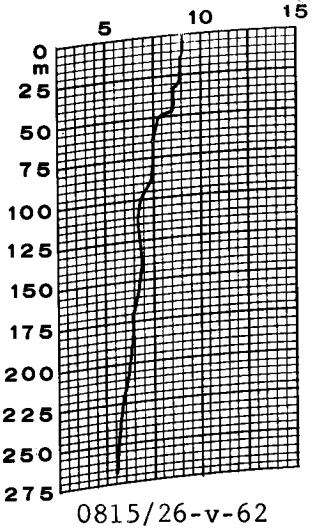
0000/26-v-62
49° 44'n
140° 40'w



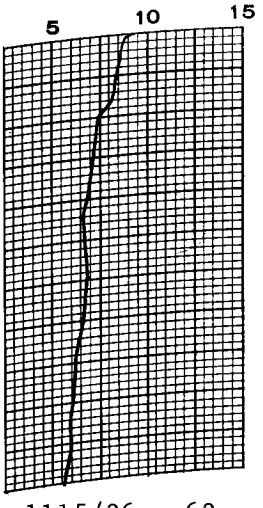
0300/26-v-62
49° 38'n
139° 40'w



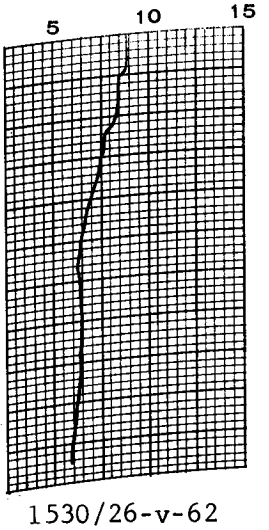
0545/26-v-62
49° 28'n
138° 40'w



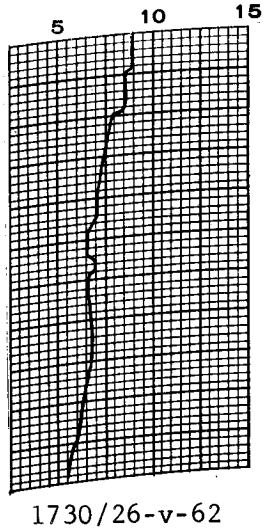
0815/26-v-62
49° 25'n
137° 45'w



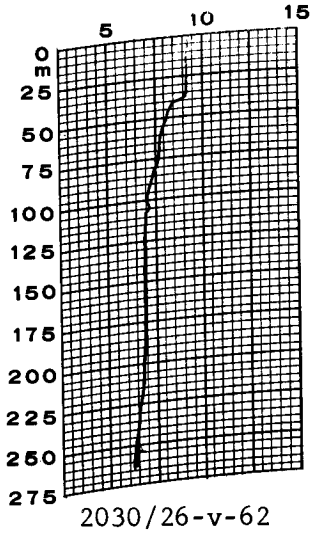
1115/26-v-62
49° 27'n
136° 40'w



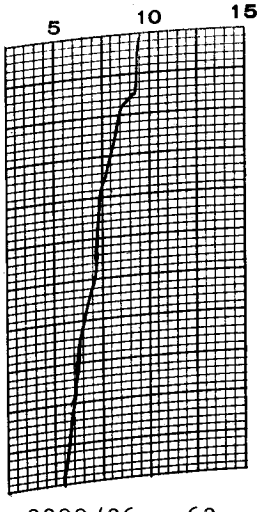
1530/26-v-62
49° 17'n
135° 40'w



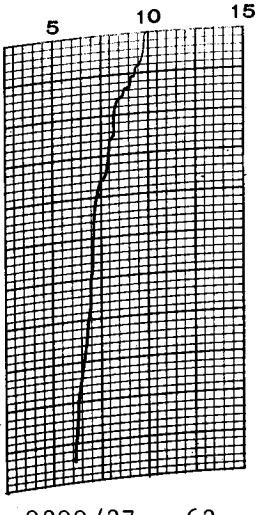
1730/26-v-62
49° 14'n
134° 37'w



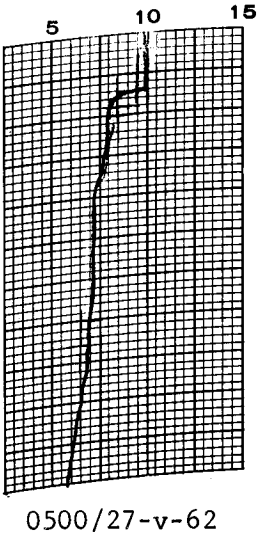
2030/26-v-62
49° 10'n
133° 40'w



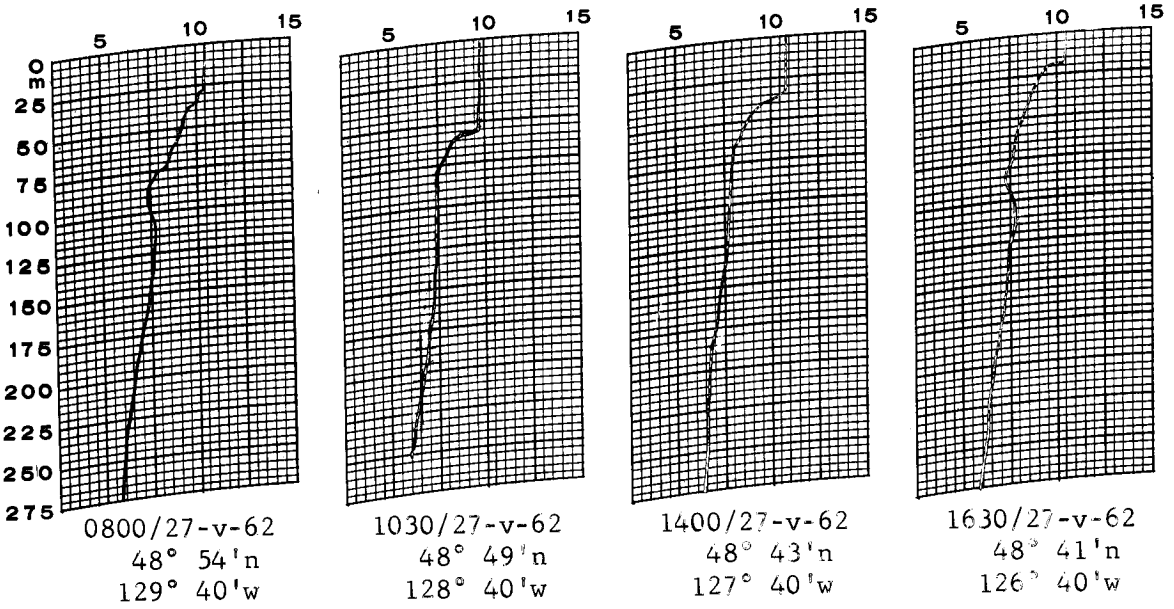
2300/26-v-62
49° 07'n
132° 40'w



0200/27-v-62
49° 00'n
131° 40'w



0500/27-v-62
48° 58'n
130° 40'w

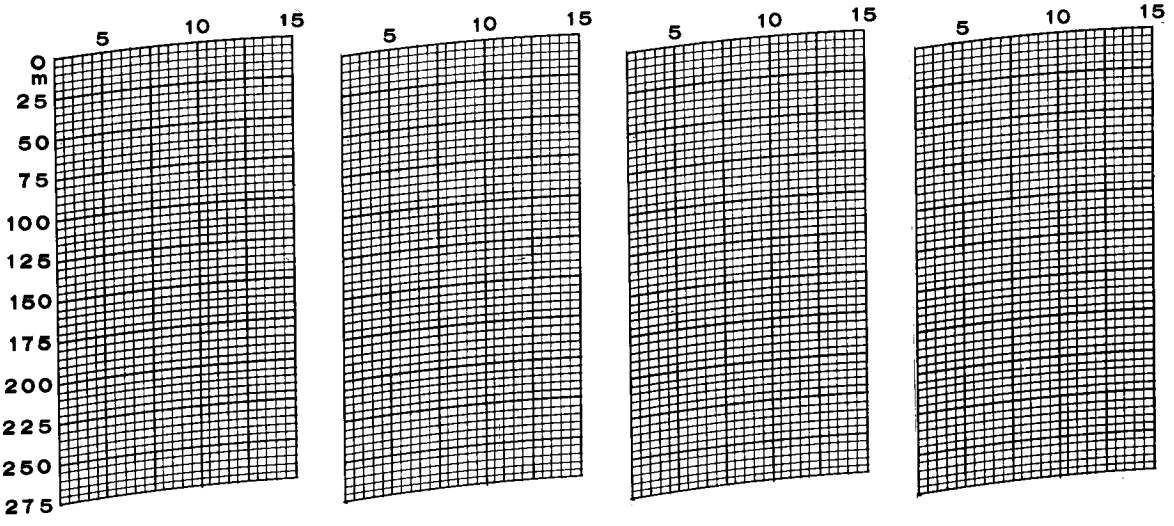


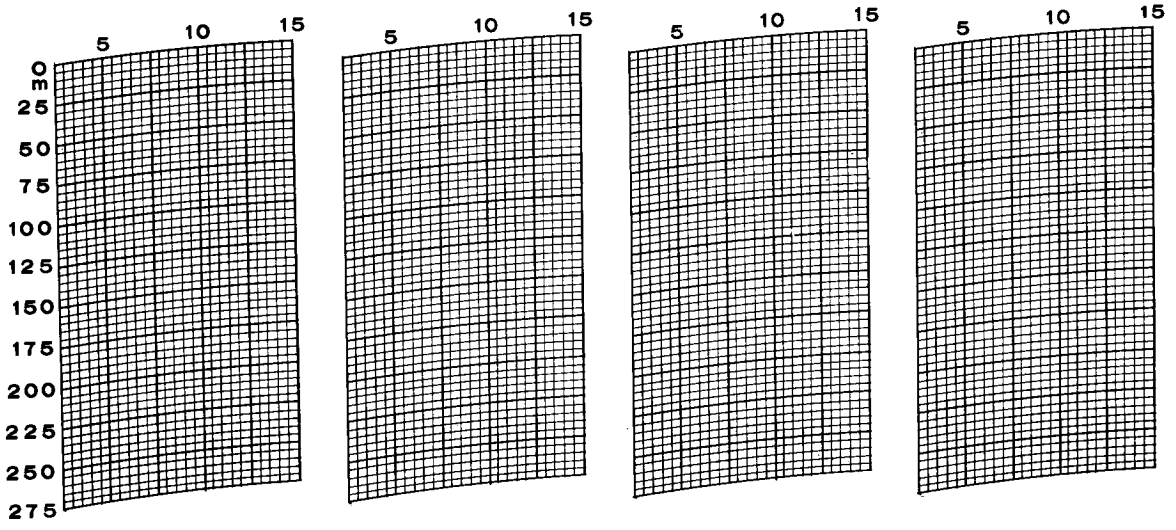
0800/27-v-62
48° 54'n
129° 40'w

1030/27-v-62
48° 49'n
128° 40'w

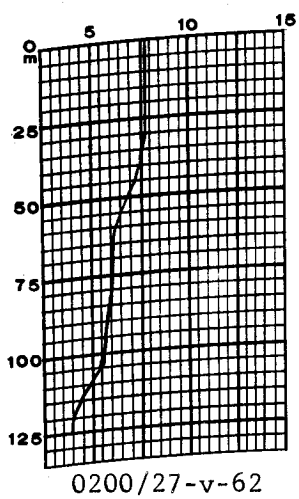
1400/27-v-62
48° 43'n
127° 40'w

1630/27-v-62
48° 41'n
126° 40'w

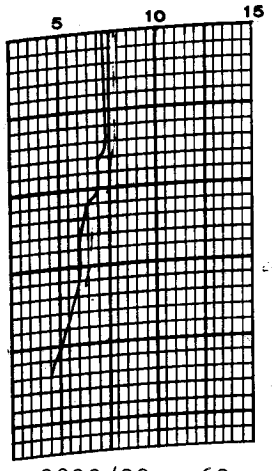




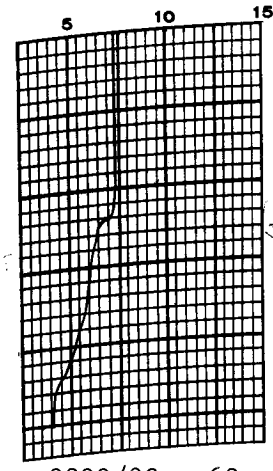
Survey P-62-2, C.C.G.S. "St. Catharines"



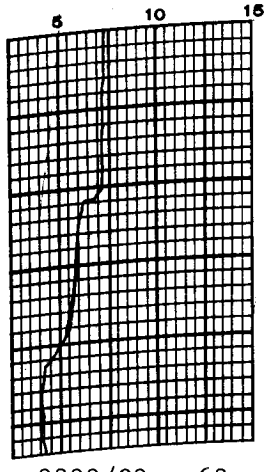
0200/27-v-62
Grid OJ



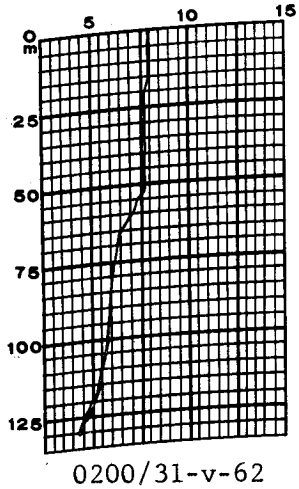
0200/28-v-62
Grid OS



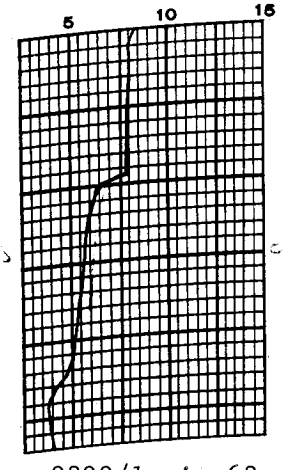
0200/29-v-62
Grid JJ



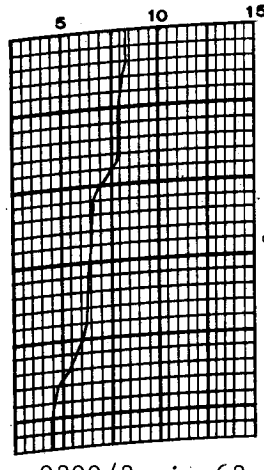
0200/30-v-62
Grid OJ



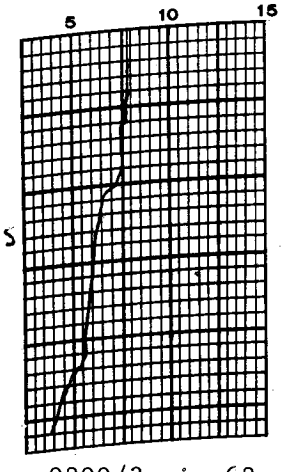
0200/31-v-62
Grid OS



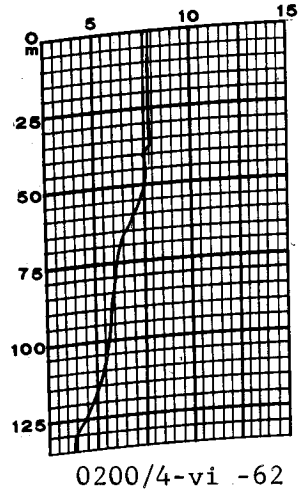
0200/1-vi -62
Grid OS



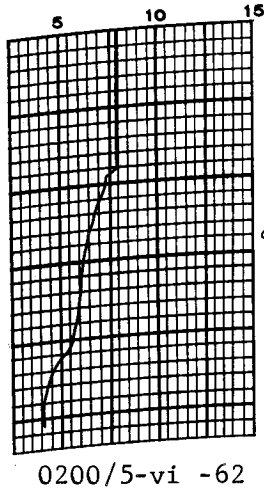
0200/2-vi -62
Grid OS



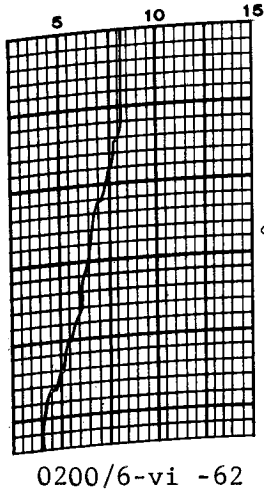
0200/3-vi -62
Grid OS



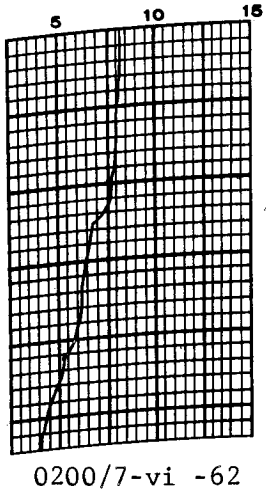
0200/4-vi -62
Grid OS



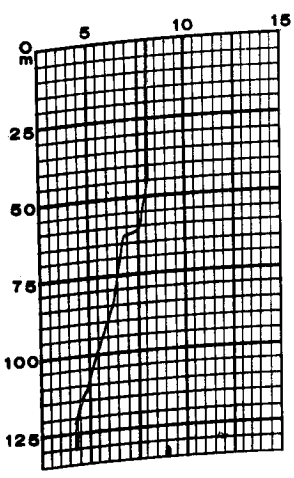
0200/5-vi -62
Grid OS



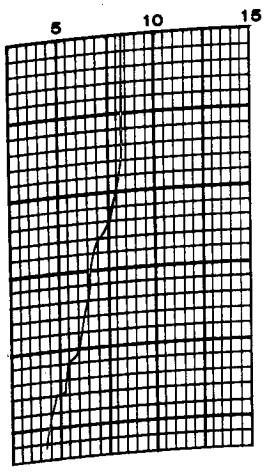
0200/6-vi -62
Grid OS



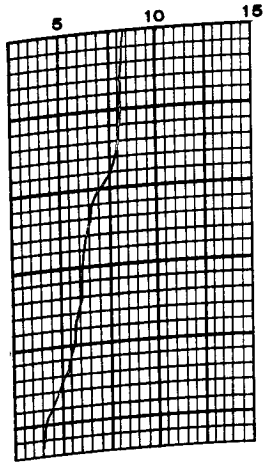
0200/7-vi -62
Grid OS



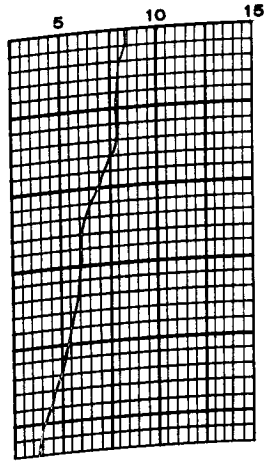
0200/8-vi-62
Grid OS



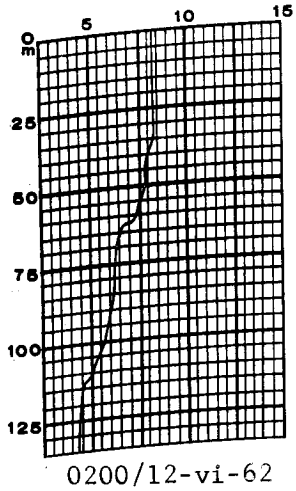
0200/9-vi-62
Grid OS



0200/10-vi-62
Grid OS



0200/11-vi-62
Grid OS



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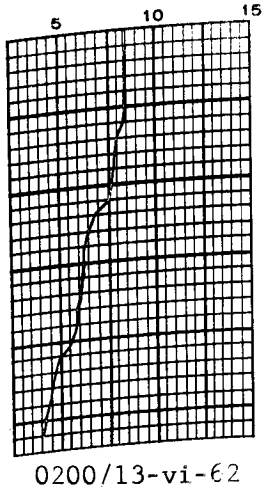
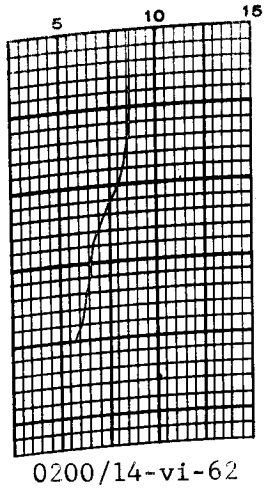
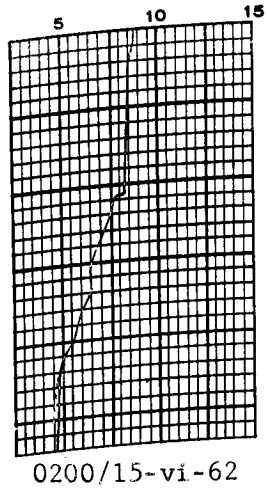
Grid OS



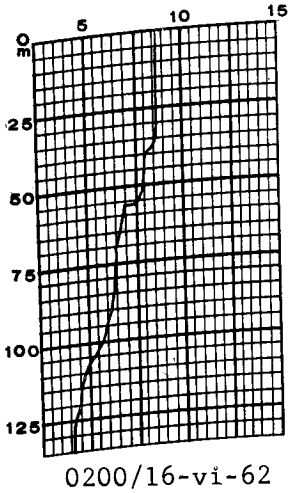
0200/13-vi-62
Grid OS



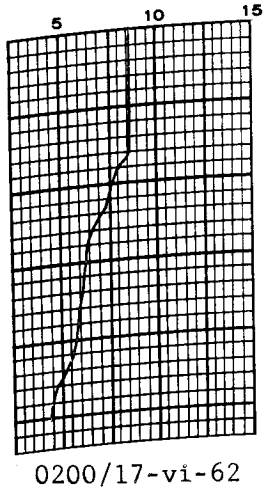
0200/14-vi-62
Grid OS



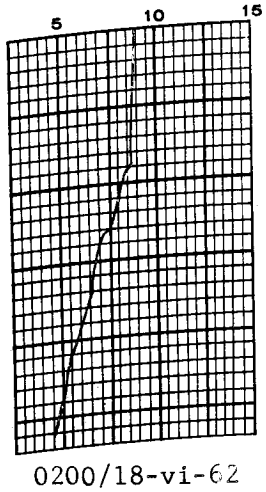
0200/15-vi-62
Grid OS



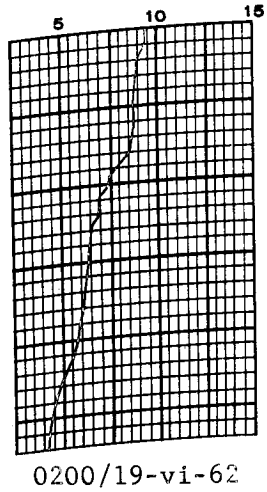
0200/16-vi-62
Grid OS



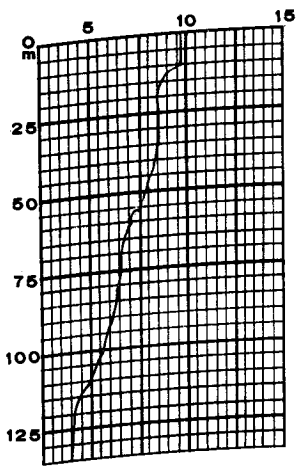
0200/17-vi-62
Grid OS



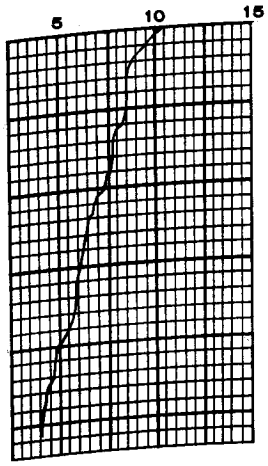
0200/18-vi-62
Grid OS



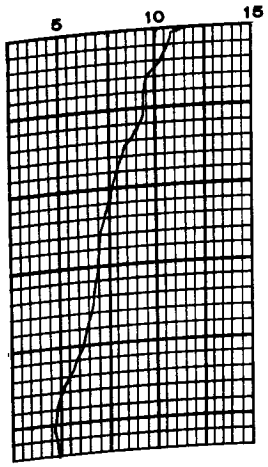
0200/19-vi-62
Grid OS



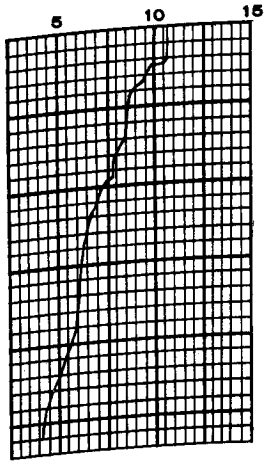
0200/20-vi-62
Grid OS



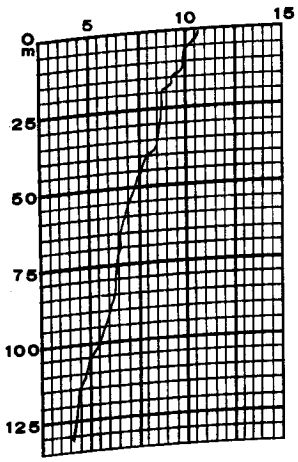
0200/21-vi-62
Grid OS



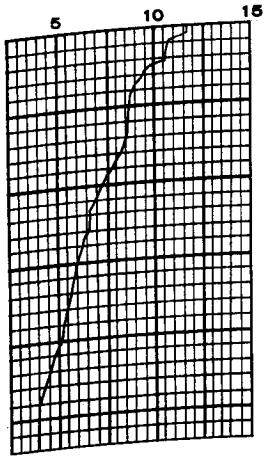
0200/22-vi-62
Grid OS



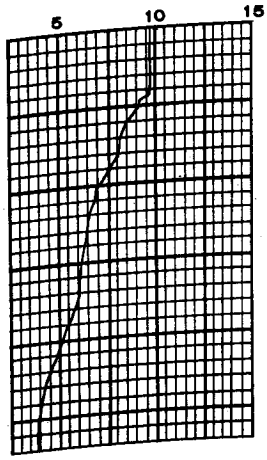
0200/23-vi-62
Grid OS



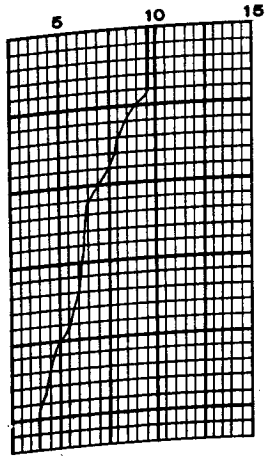
0200/24-vi-62
Grid OS



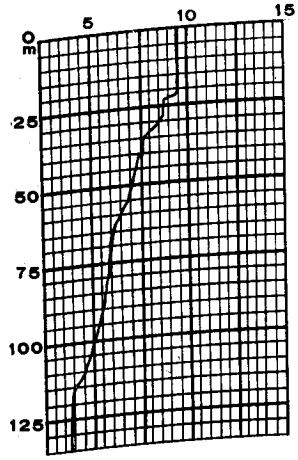
0200/25-vi-62
Grid OS



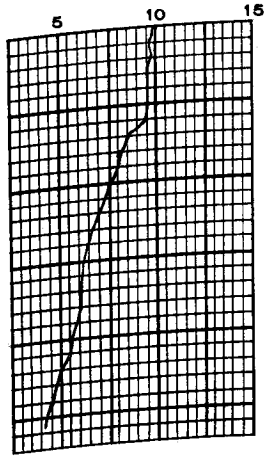
0200/26-vi-62
Grid OS



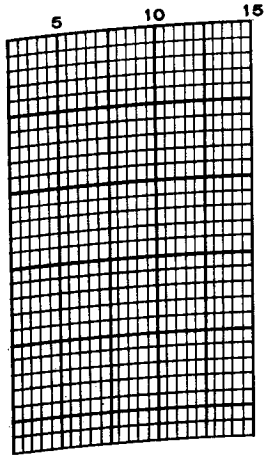
0200/27-vi-62
Grid OS

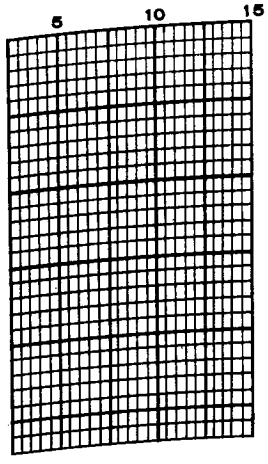


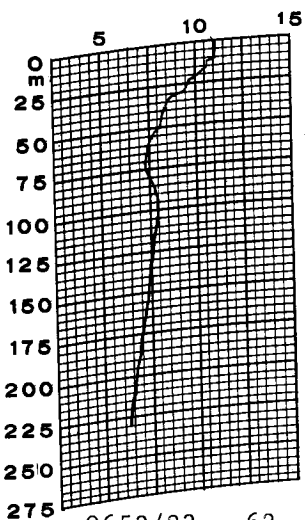
0200/28-vi-62
Grid OS



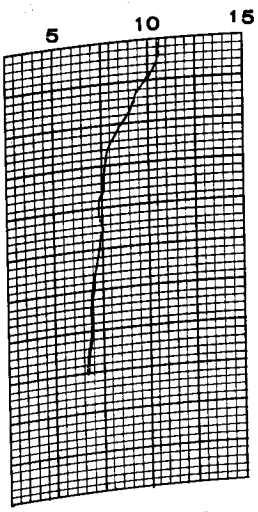
0200/29-vi-62
Grid OS



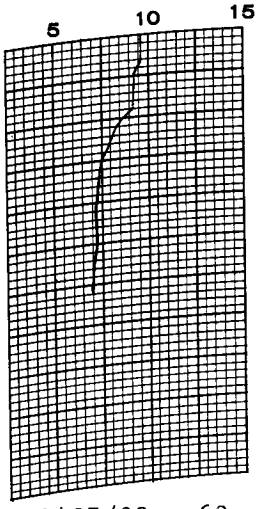




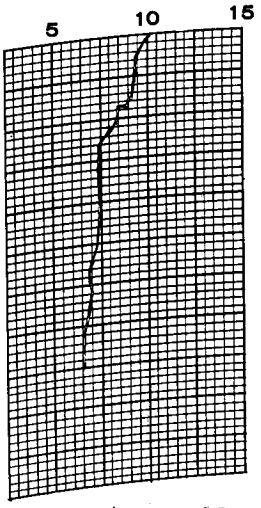
0653/23-v-62
48° 41'n
126° 40'w
Station 1



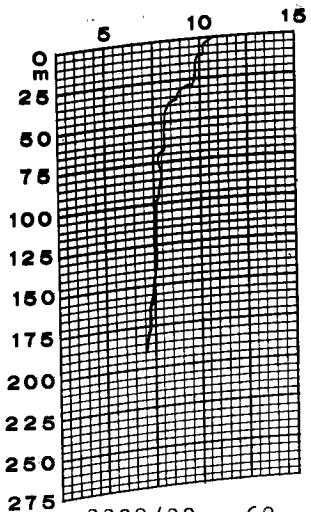
1128/23-v-62
48° 46'n
127° 40'w



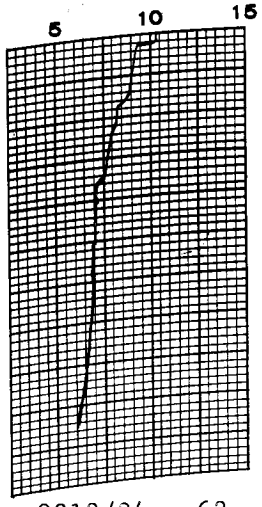
1437/23-v-62
48° 51'n
128° 39'w
Station 2



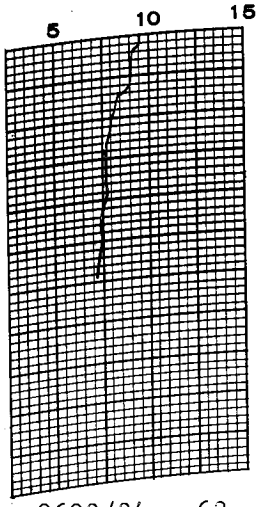
1922/23-v-62
48° 56'n
129° 40'w



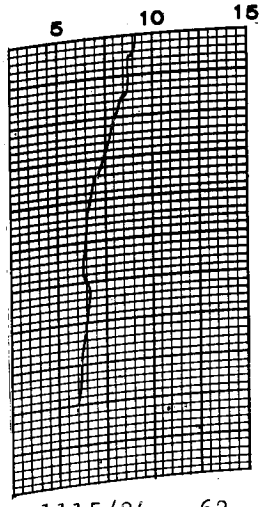
2238/23-v-62
49° 01'n
130° 40'w
Station 3



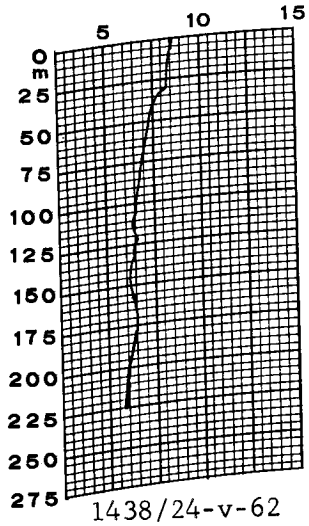
0312/24-v-62
49° 05'n
131° 41'w



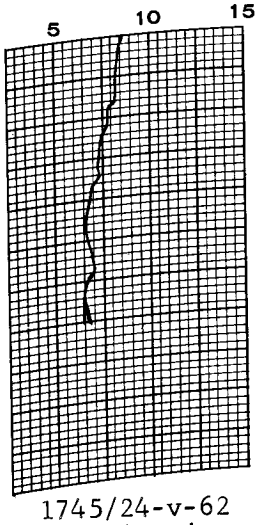
0602/24-v-62
49° 10'n
132° 40'w
Station 4



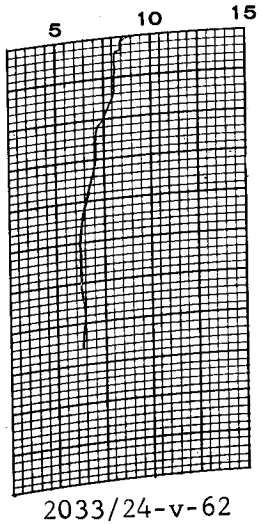
1115/24-v-62
49° 15'n
133° 40'w



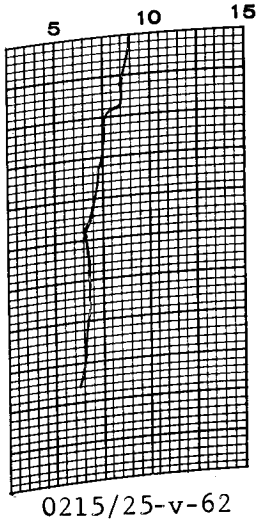
1438/24-v-62
49° 19'n
134° 40'w



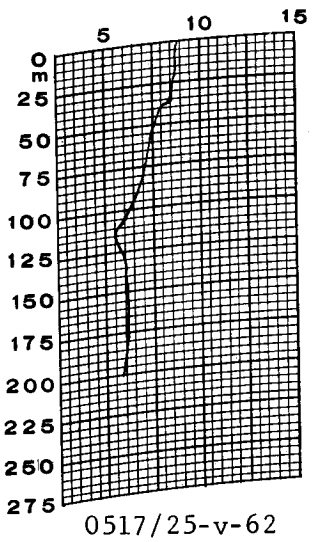
1745/24-v-62
49° 22'n
135° 40'w



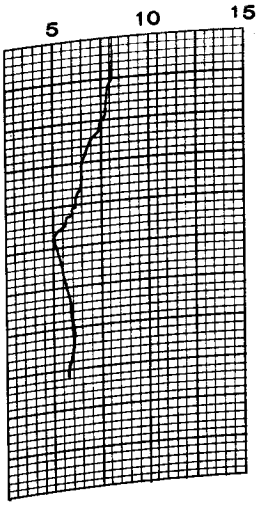
2033/24-v-62
49° 26'n
136° 40'w
Station 5



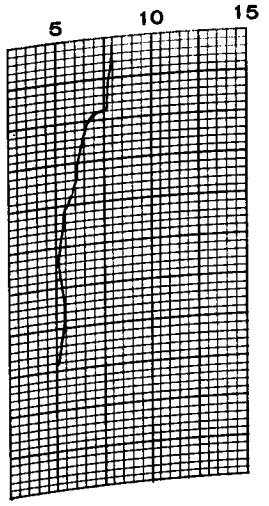
0215/25-v-62
49° 30'n
137° 40'w



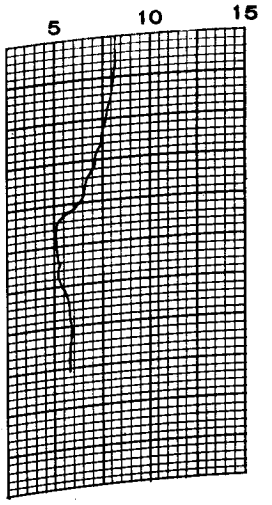
0517/25-v-62
49° 33'n
138° 40'w



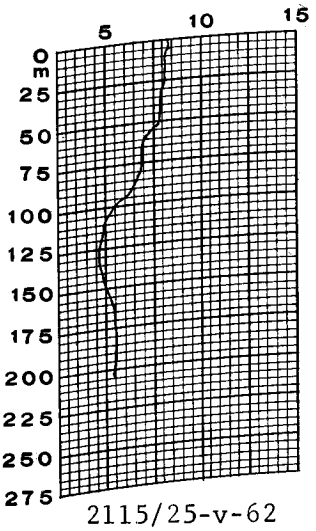
0820/25-v-62
49° 37'n
139° 40'w



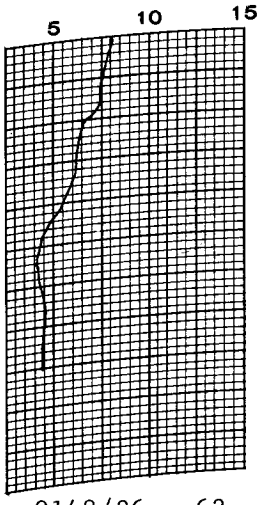
1130/25-v-62
49° 40'n
140° 40'w
Station 6



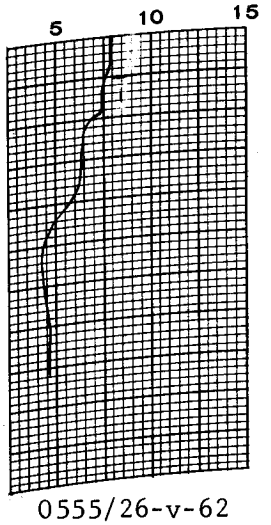
1703/25-v-62
49° 45'n
141° 40'w



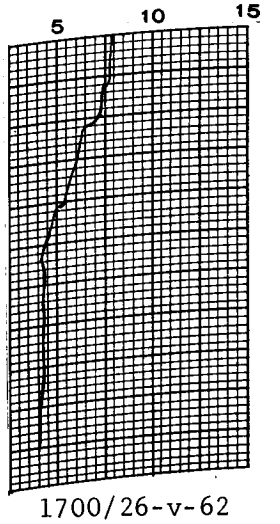
2115/25-v-62
Grid KU



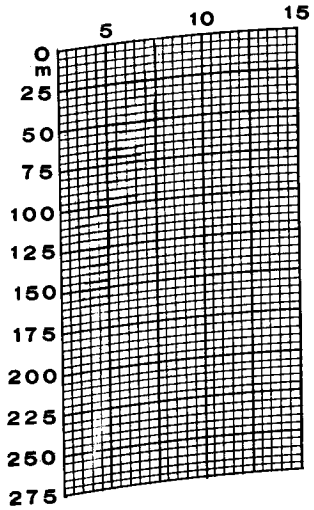
0148/26-v-62
Grid KP

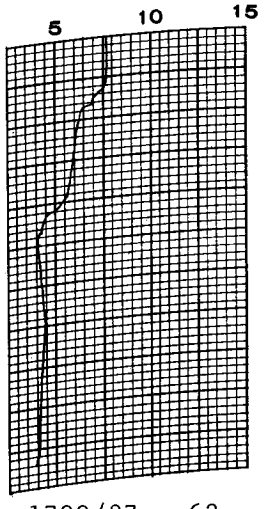


0555/26-v-62
Grid OK

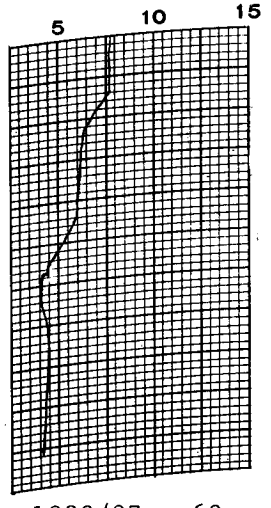


1700/26-v-62
Grid OS

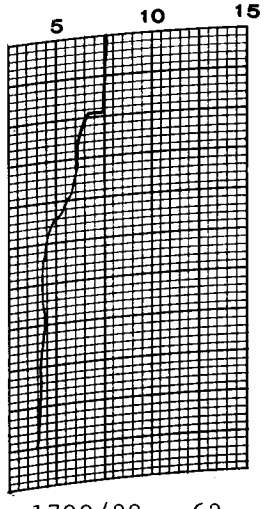




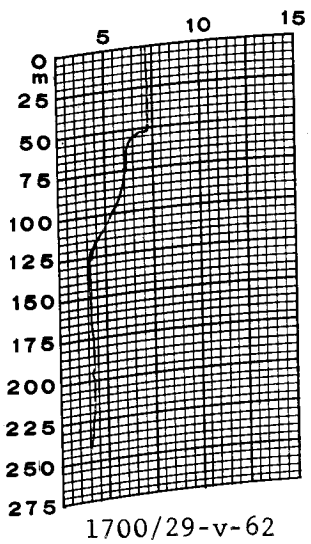
1700/27-v-62
Grid KS



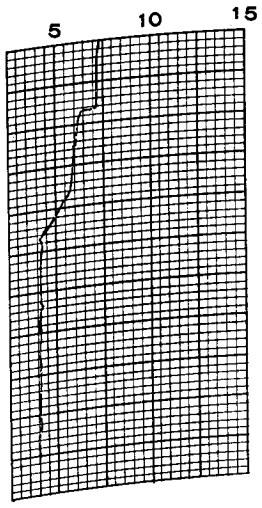
1832/27-v-62
Grid KS
Station 201



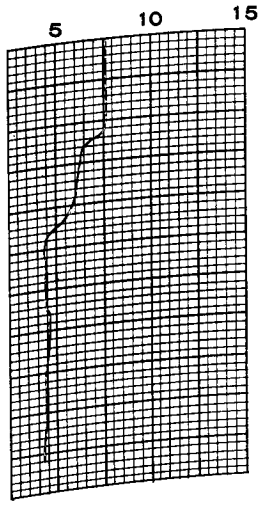
1700/28-v-62
Grid OS



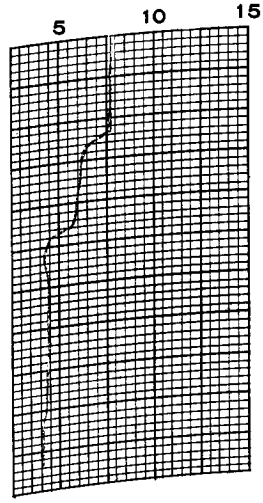
1700/29-v-62
Grid OS



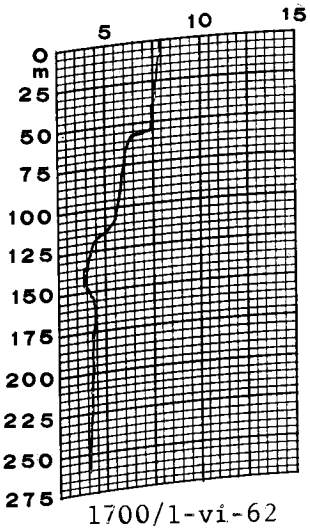
1846/29-v-62
Grid OS
Station 202



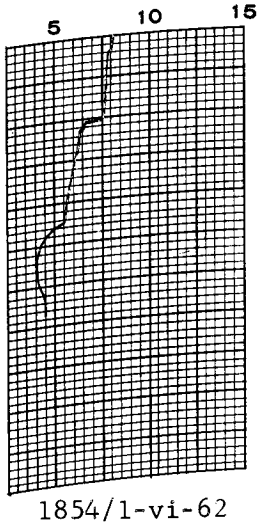
1700/30-v-62
Grid OS



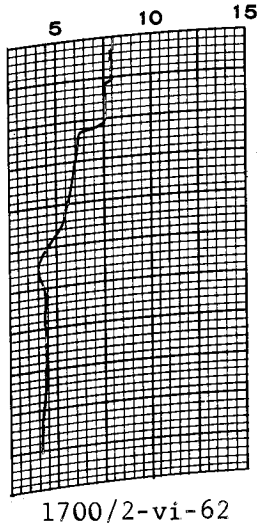
1700/31-v-62
Grid OS



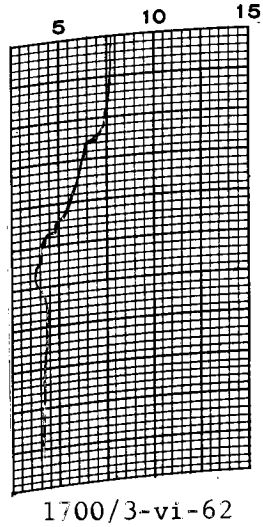
1700/1-vi-62
Grid OS



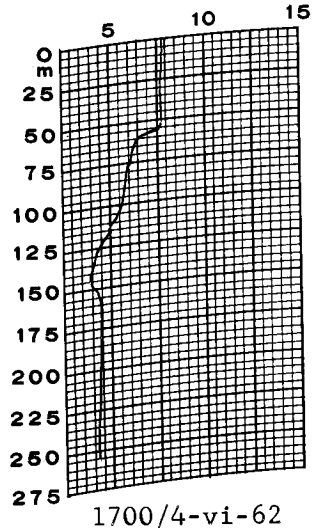
1854/1-vi-62
Grid OS
Station 203



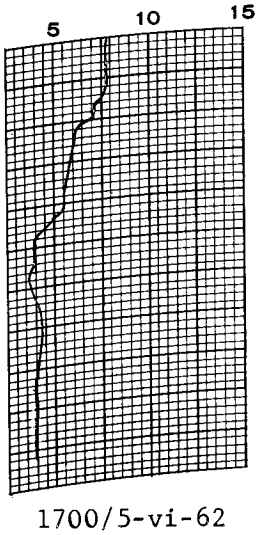
1700/2-vi-62
Grid OS



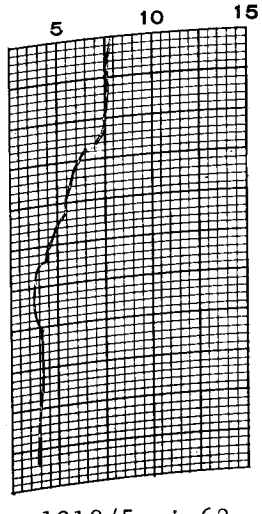
1700/3-vi-62
Grid OS



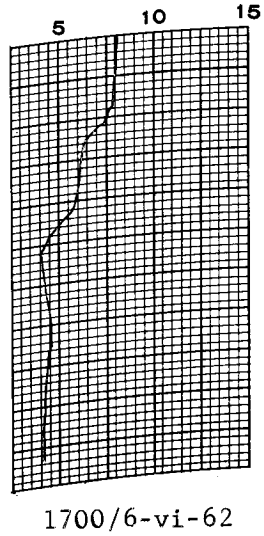
1700/4-vi-62
Grid OS



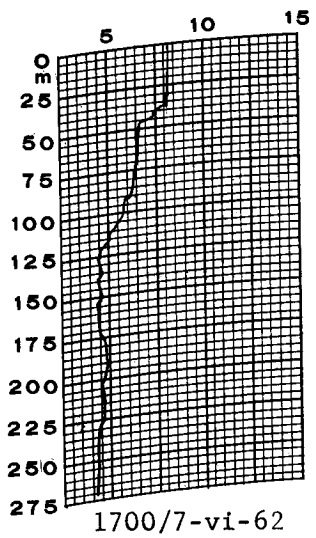
1700/5-vi-62
Grid OS



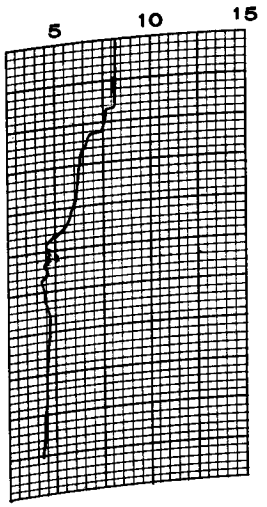
1918/5-vi-62
Grid OS
Station 204



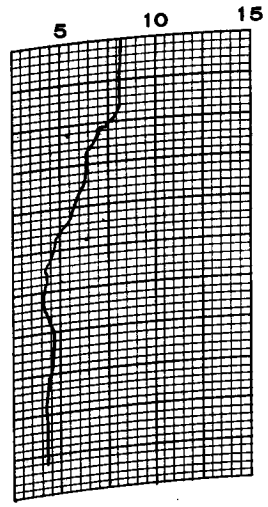
1700/6-vi-62
Grid OS



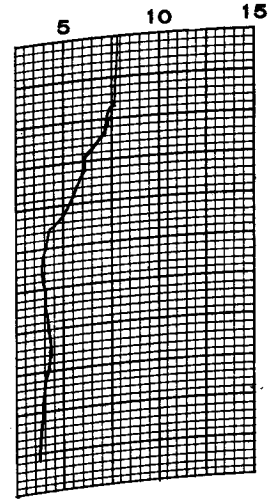
1700/7-vi-62
Grid OS



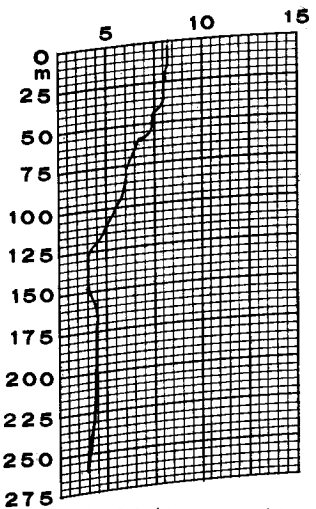
1700/8-vi-62
Grid OS



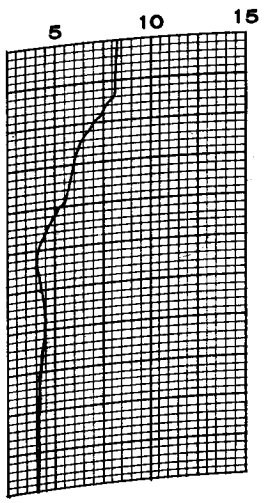
1831/8-vi-62
Grid OS
Station 205



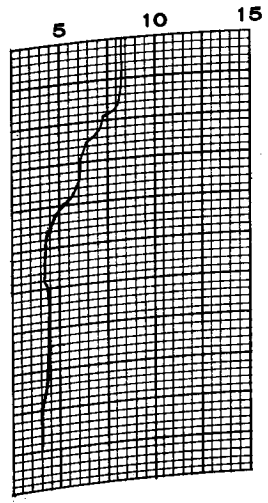
1700/9-vi-62
Grid OS



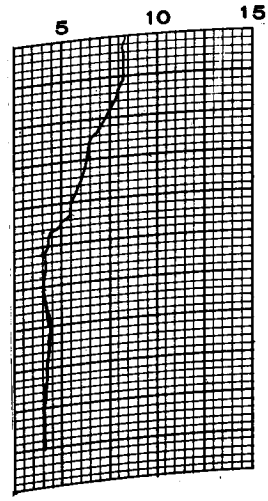
1700/10-vi-62
Grid OS



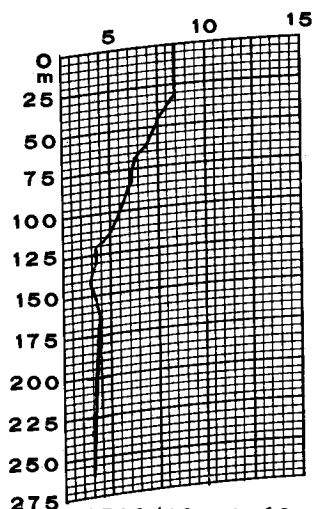
1700/11-vi-62
Grid OS



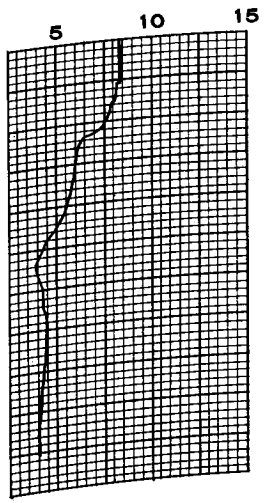
1700/12-vi-62
Grid OS



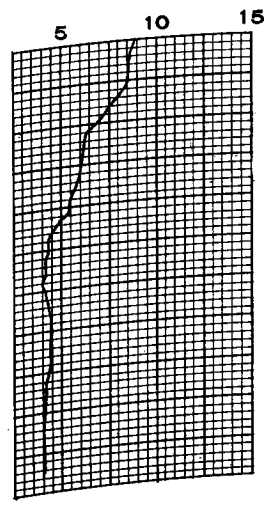
1848/12-vi-62
Grid OS
Station 206



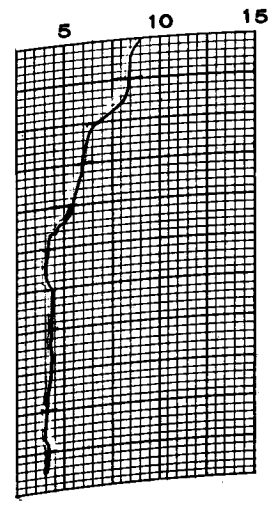
1700/13-vi-62
Grid OS



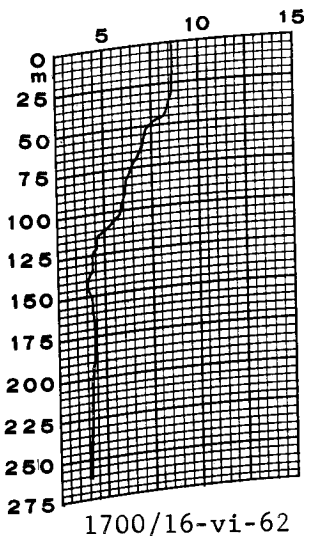
1700/14-vi-62
Grid OS



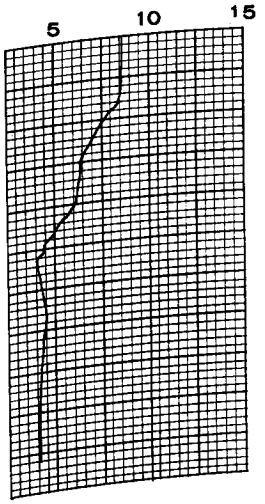
1700/15-vi-62
Grid OS



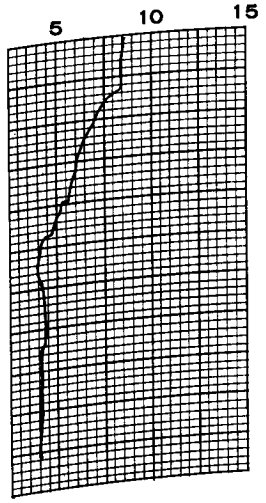
1823/15-vi-62
Grid OS
Station 207



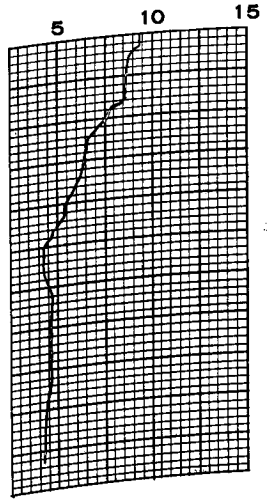
1700/16-vi-62
Grid OS



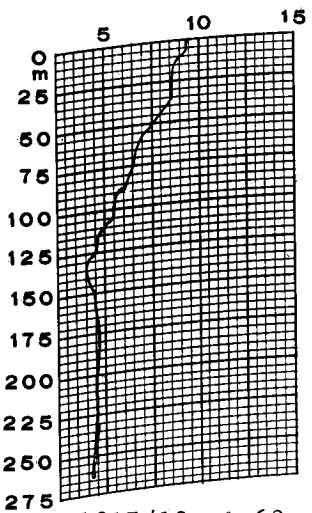
1700/17-vi-62
Grid OS



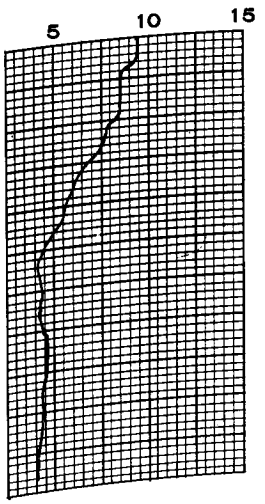
1700/18-vi-62
Grid OS



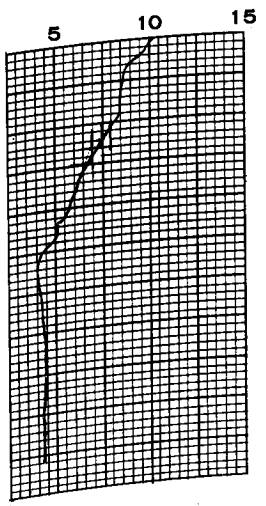
1700/19-vi-62
Grid JS



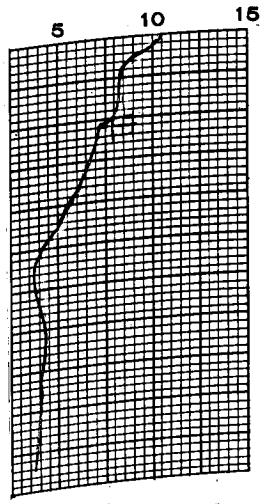
1817/19-vi-62
Grid JS
Station 208



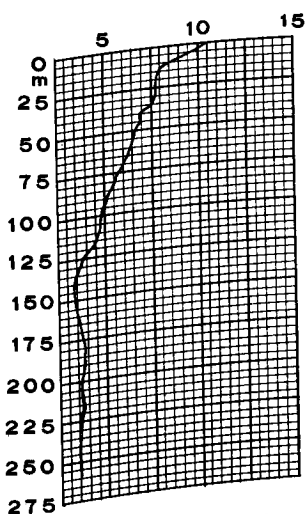
1700/20-vi-62
Grid OS



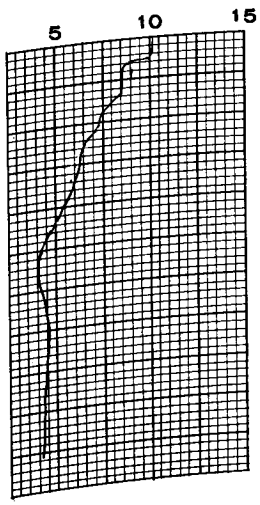
1700/21-vi-62
Grid OS



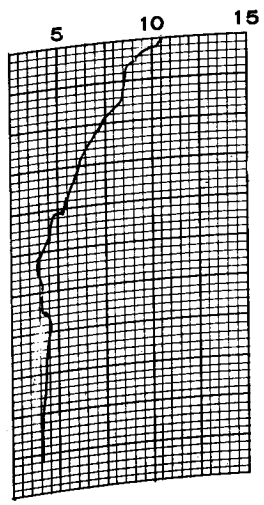
1700/22-vi-62
Grid OS



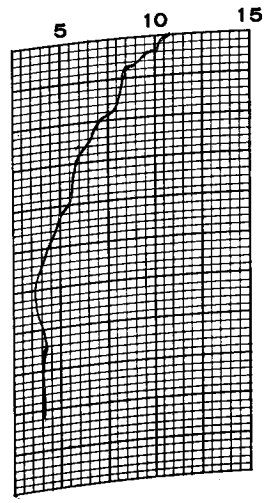
1827/22-vi-62
Grid OS
Station 209



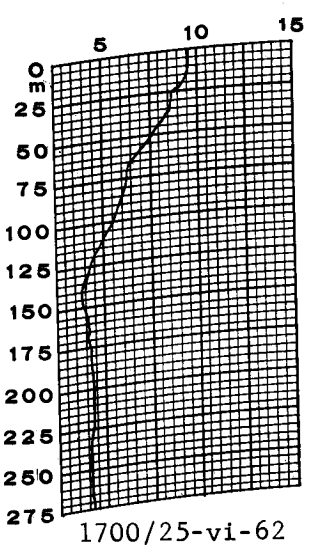
1700/23-vi-62
Grid OS



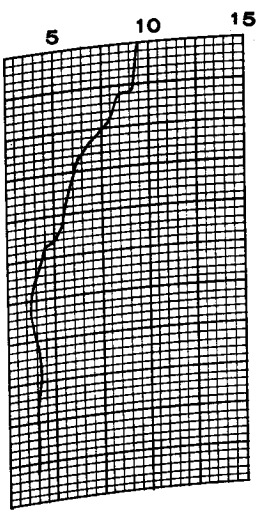
1700/24-vi-62
Grid OS



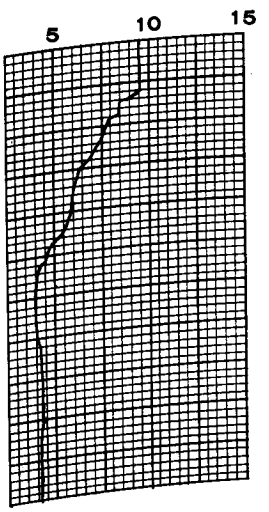
1755/24-vi-62
Grid OS



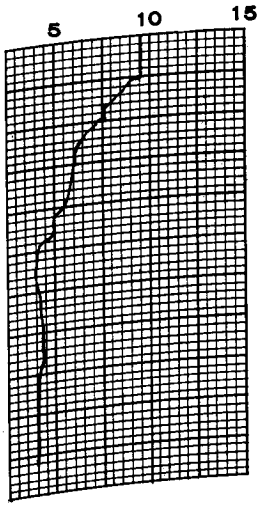
1700/25-vi-62
Grid OS



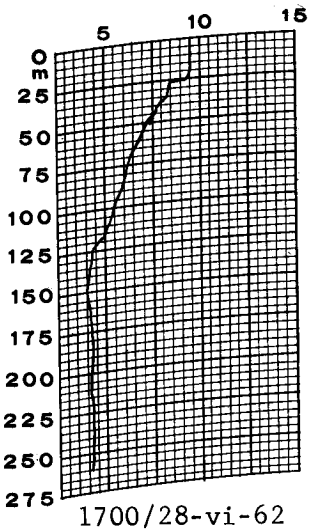
1700/26-vi-62
Grid OS



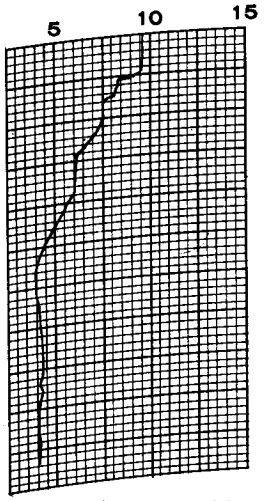
1825/26-vi-62
Grid OS
Station 210



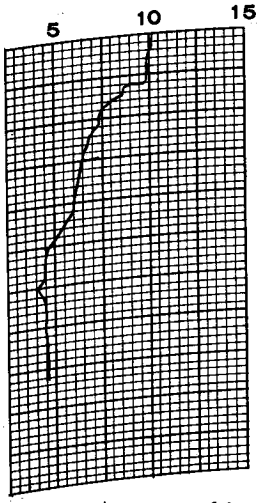
1700/27-vi-62
Grid OS



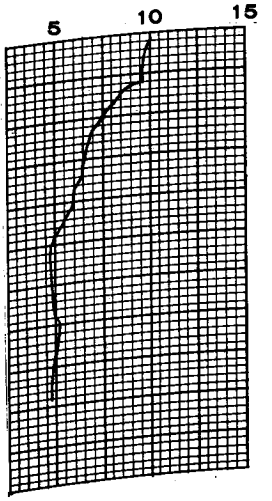
1700/28-vi-62
Grid OS



1820/28-vi-62
Grid OS
Station 211



0720/29-vi-62
49° 58'n
144° 40'w



1100/29-vi-62
49° 54'n
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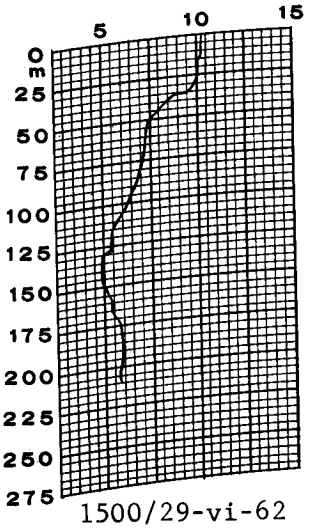
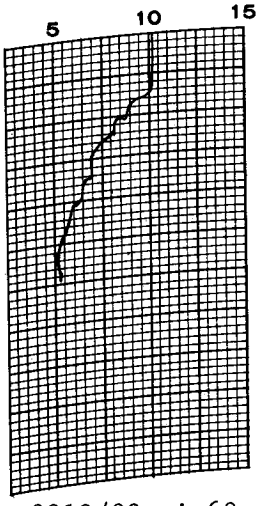
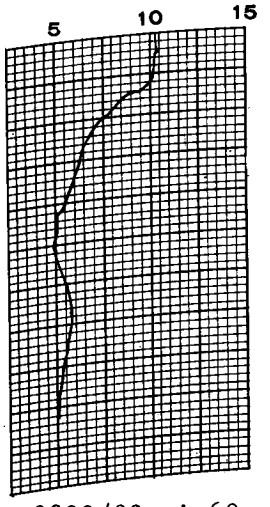


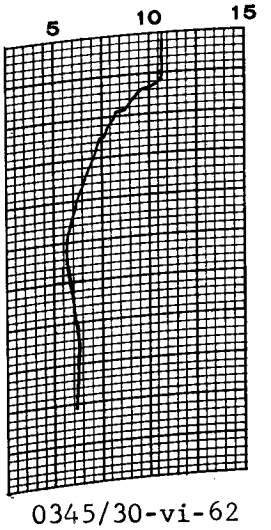
1500/29-vi-62
49° 50'n
142° 40'w
Station 6A



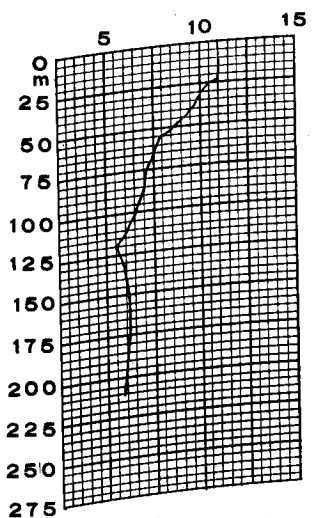
2010/29-vi-62
49° 45'n
141° 40'w



2300/29-vi-62
49° 41'n
140° 40'w
Station 6



0345/30-vi-62
49° 37'n
139° 40'w



0645/30-vi-62
49° 33'n
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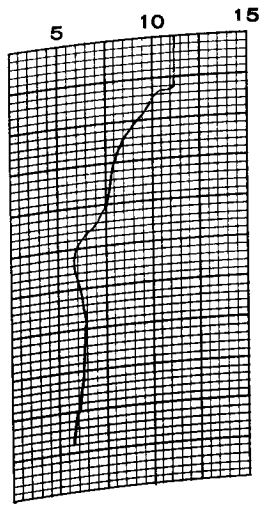

0900/30-vi-62
49° 29'n
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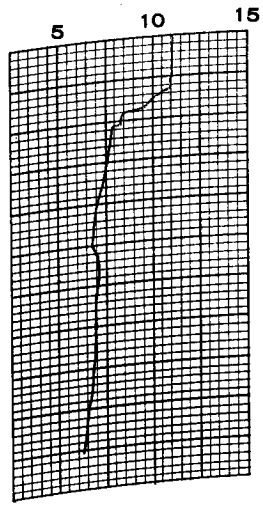
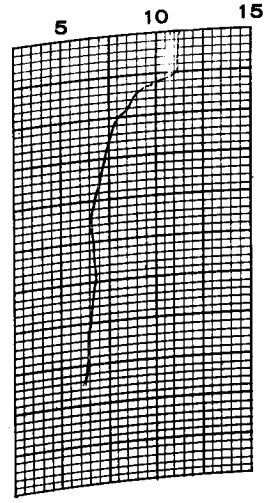
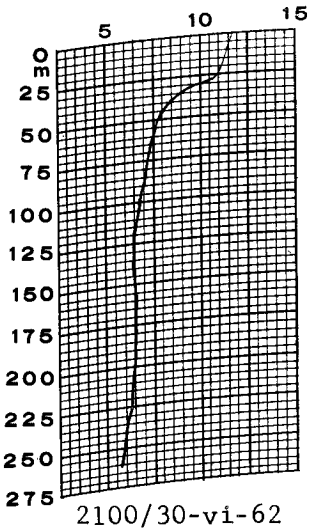


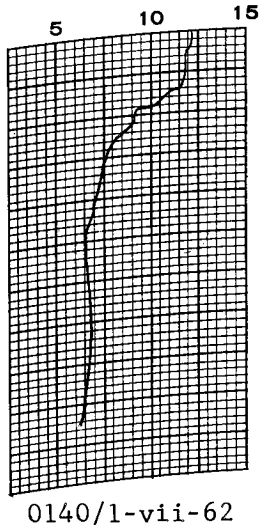
1245/30-vi-62
49° 17'n
136° 40'w
Station 5



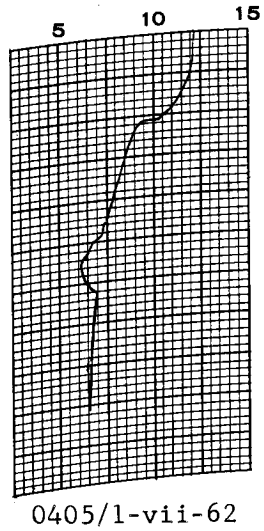
1800/30-vi-62
49° 23'n
135° 40'w



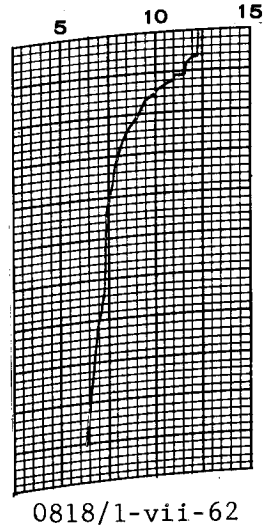
2100/30-vi-62
49° 20'n
134° 40'w
Station 4A



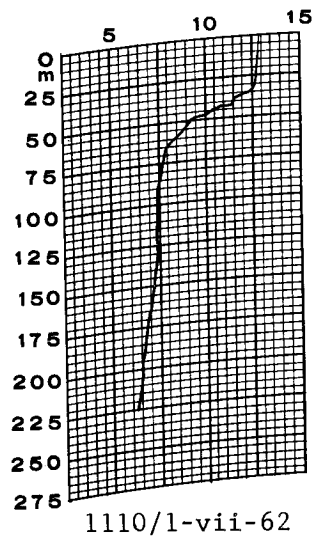
0140/1-vii-62
49° 14'n
133° 40'w



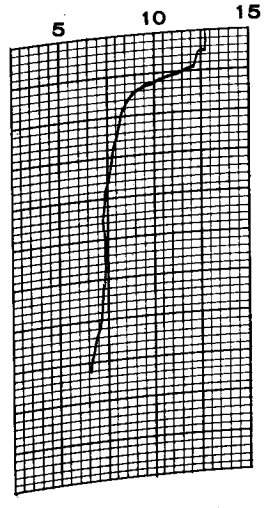
0405/1-vii-62
49° 10'n
132° 40'w
Station 4



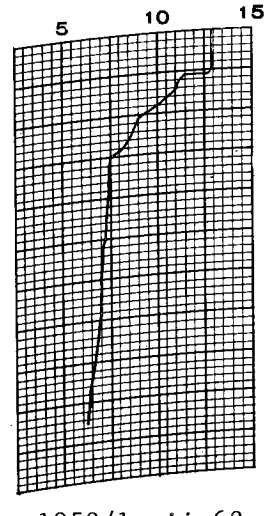
0818/1-vii-62
49° 05'n
131° 40'w



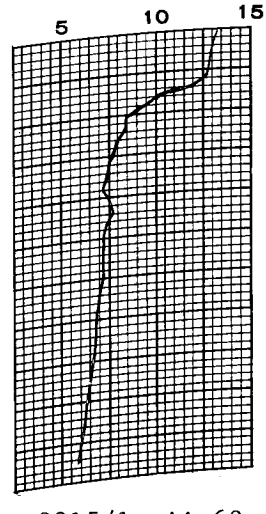
1110/1-vii-62
49° 01'n
130° 40'w
Station 3



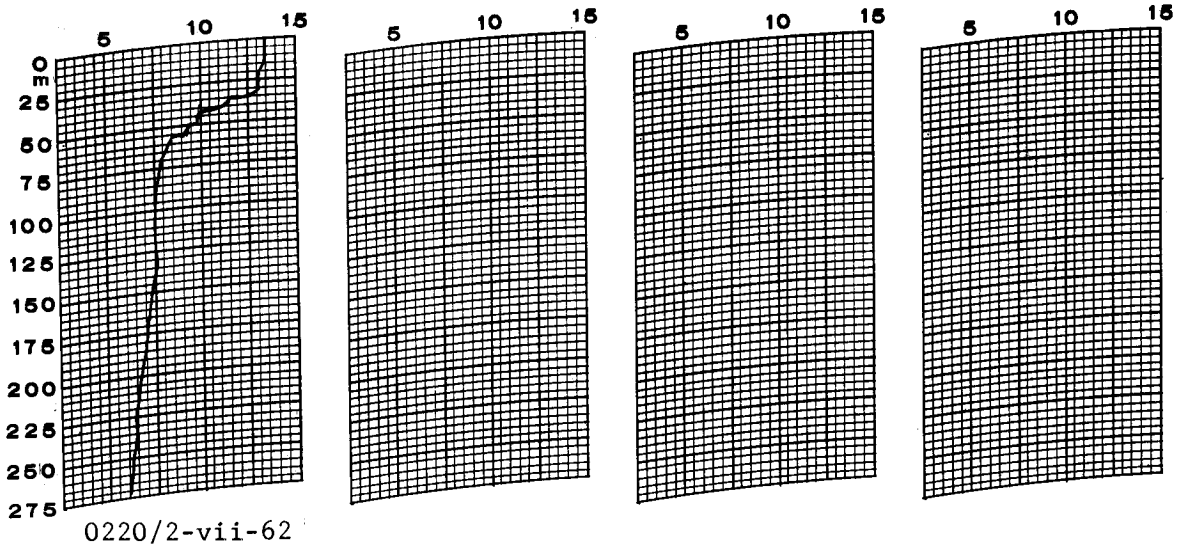
1547/1-vii-62
48° 58'n
129° 40'w



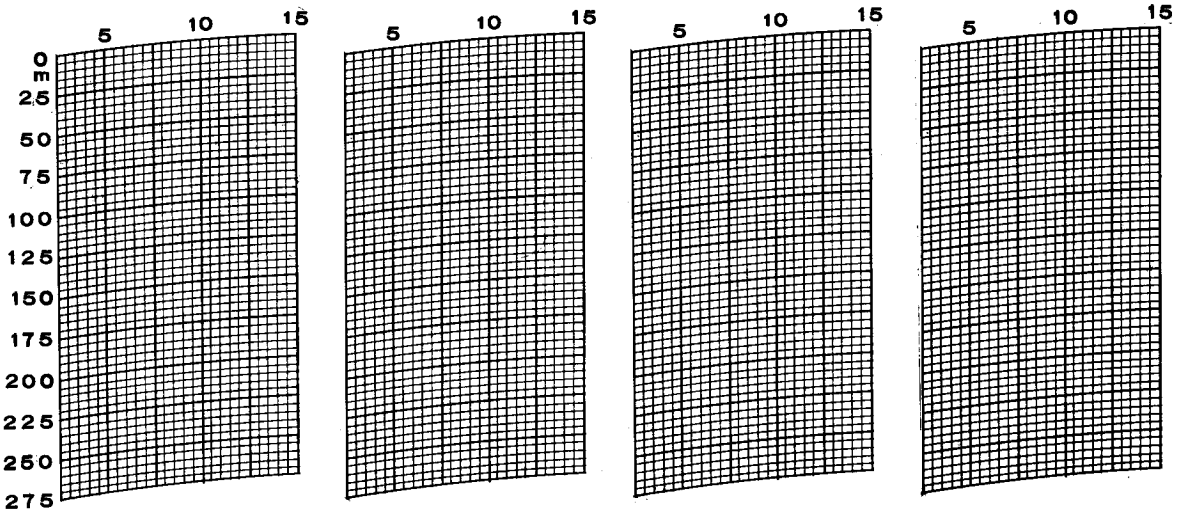
1852/1-vii-62
48° 51'n
128° 40'w
Station 2

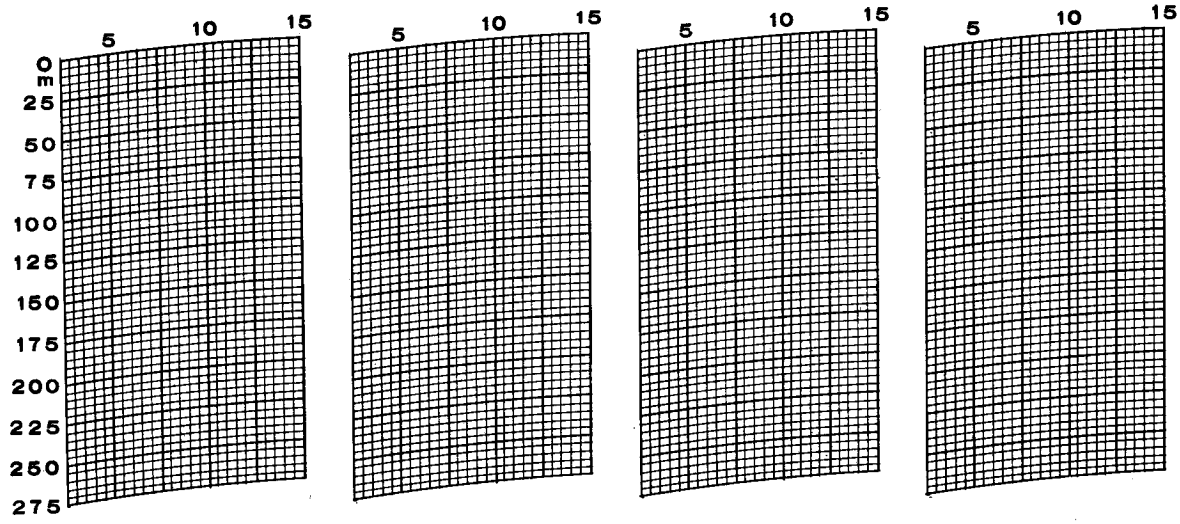


2315/1-vii-62
48° 46'n
127° 40'w

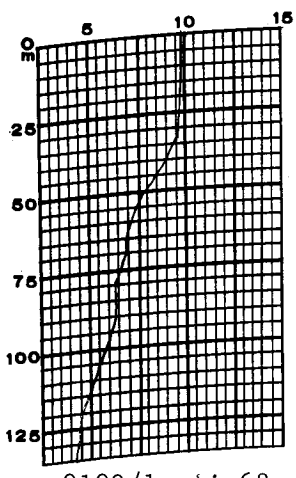


0220/2-vii-62
48° 41'n
126° 40'w
Station 1

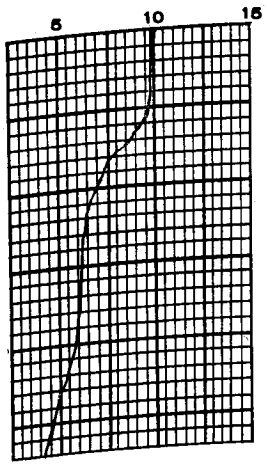




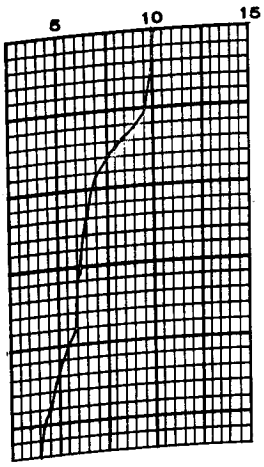
Patrol No. 52, C.C.G.S. "Stonetown"



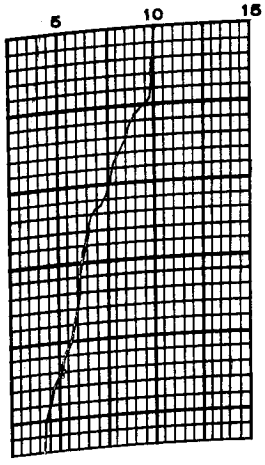
0100/1-vii-62
Grid OS



0300/1-vii-62
Grid OS



0400/1-vii-62
Grid OS



0600/1-vii-62
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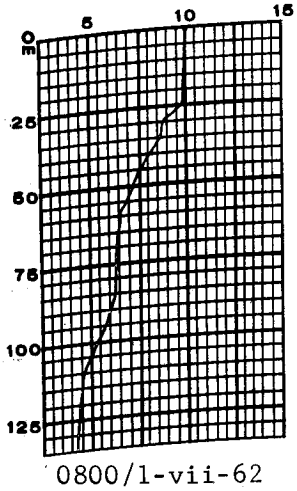
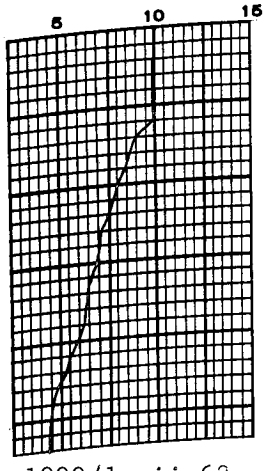
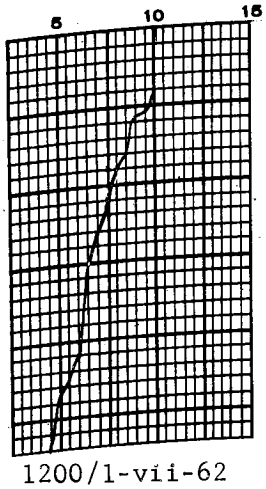


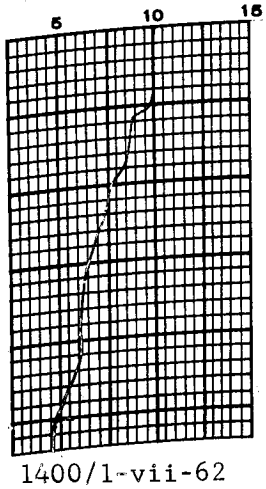
0800/1-vii-62
Grid OS



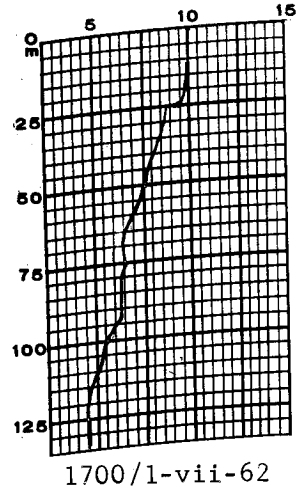
1000/1-vii-62
Grid OS



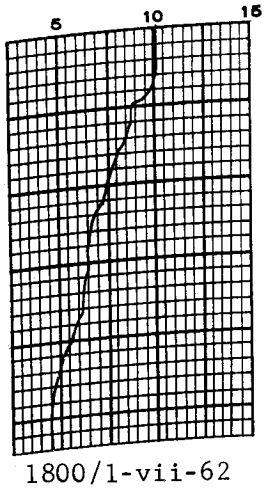
1200/1-vii-62
Grid OK



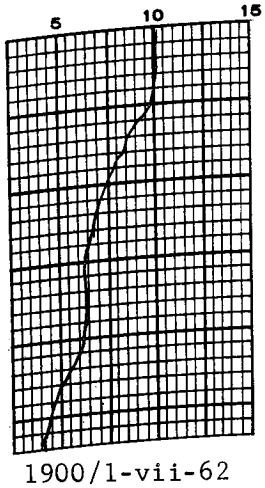
1400/1-vii-62
Grid OS



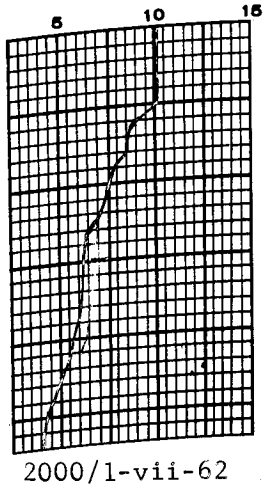
1700/1-vii-62
Grid OS



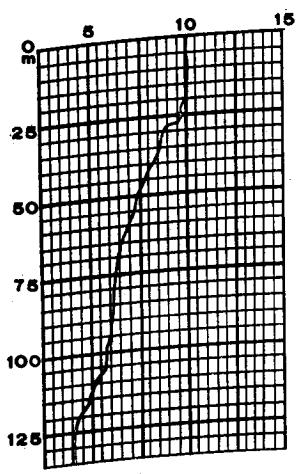
1800/1-vii-62
Grid OS



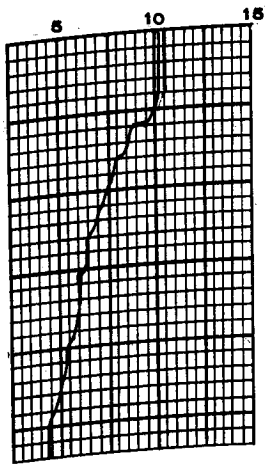
1900/1-vii-62
Grid OS



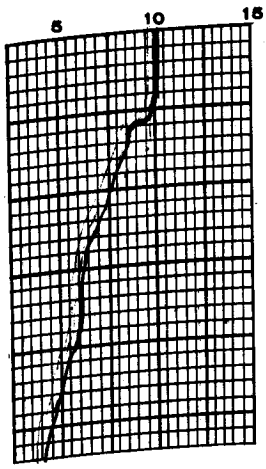
2000/1-vii-62
Grid OS



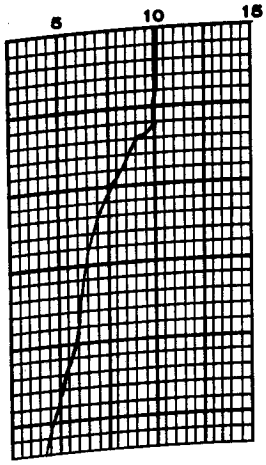
2100/1-vii-62
Grid OS



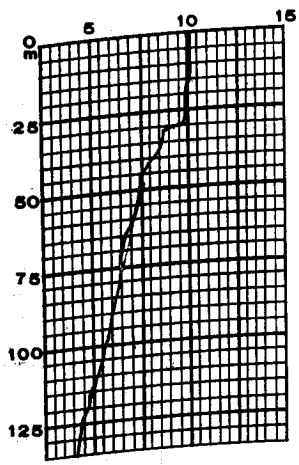
2200/1-vii-62
Grid OS



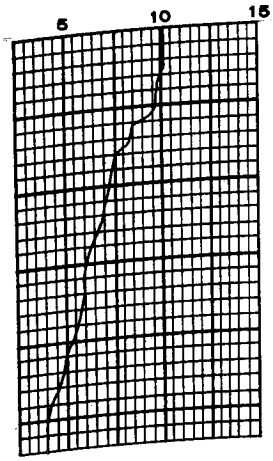
2300/1-vii-62
Grid OS



0000/2-vii-62
Grid JS



0100/2-vii-62
Grid JS



0200/2-vii-62
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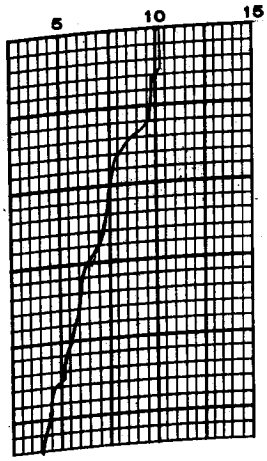
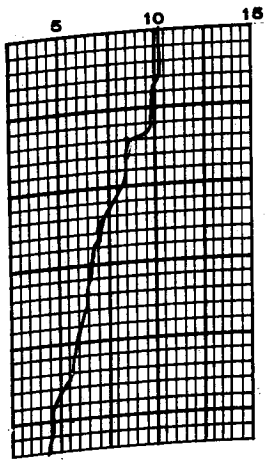
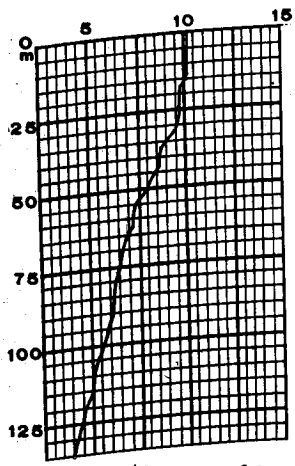


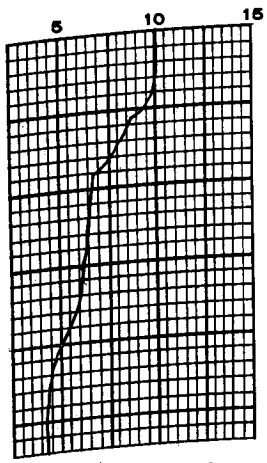
0300/2-vii-62
Grid OS



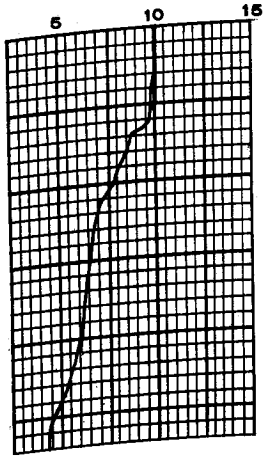
0400/2-vii-62
Grid OS



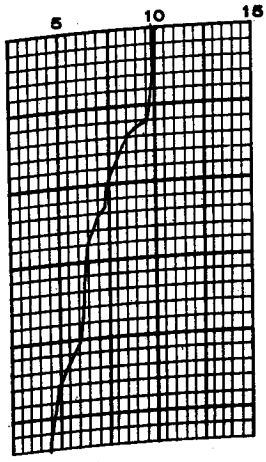
0500/2-vii-62
Grid OS



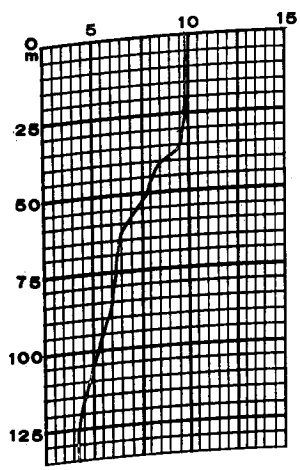
0700/2-vii-62
Grid OS



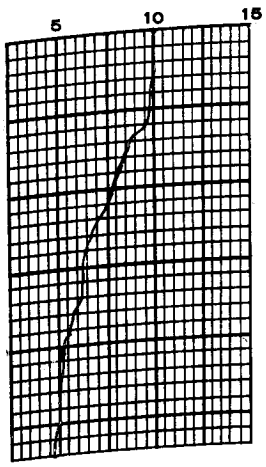
0900/2-vii-62
Grid JS



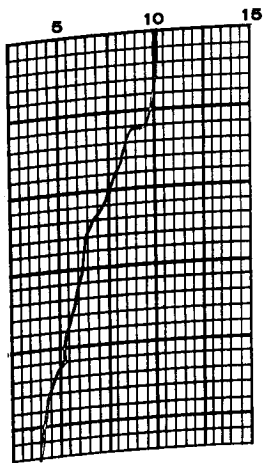
1100/2-vii-62
Grid JS



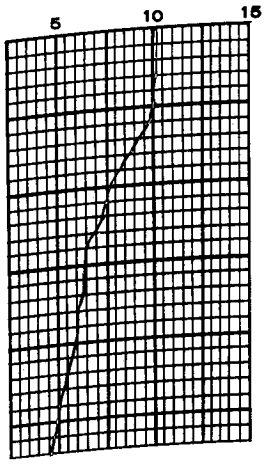
1300/2-vii-62
Grid JS



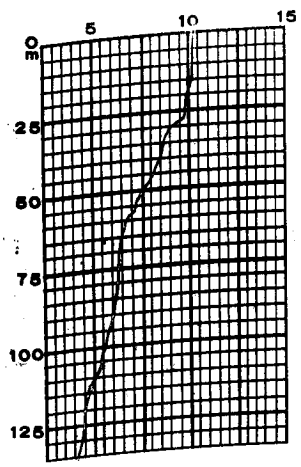
1700/2-vii-62
Grid OS



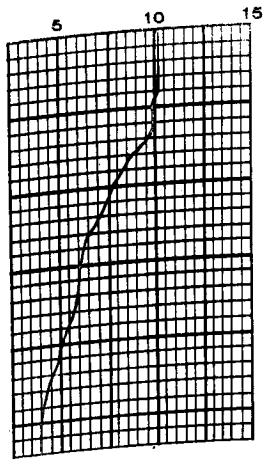
2300/2-vii-62
Grid OS



0100/3-vii-62
Grid OS



0200/3-vii-62
Grid OS



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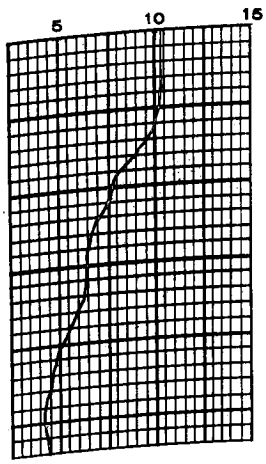

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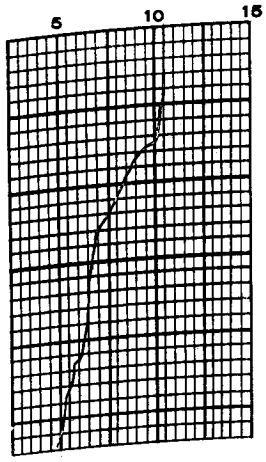

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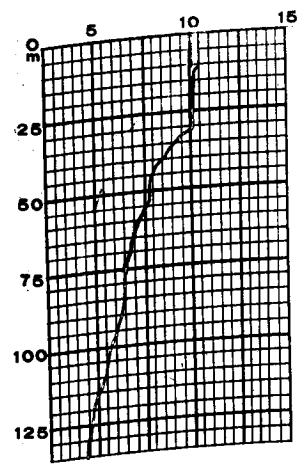

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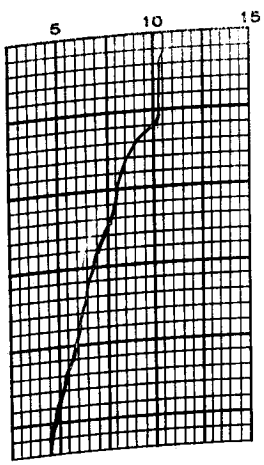

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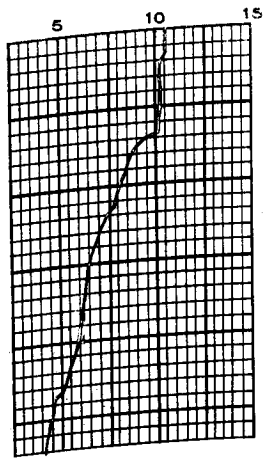

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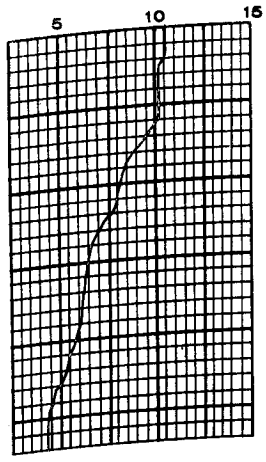

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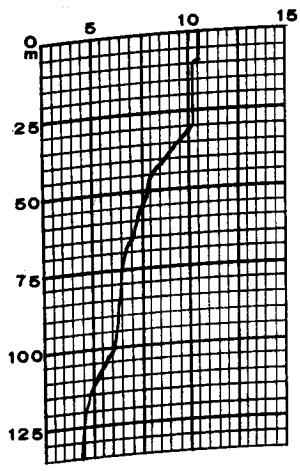

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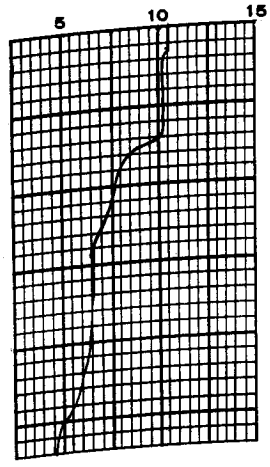

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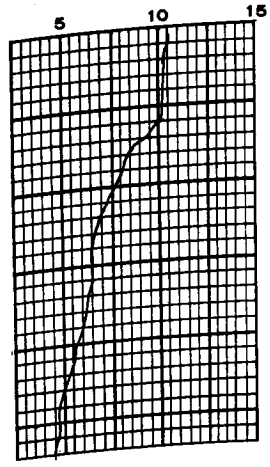

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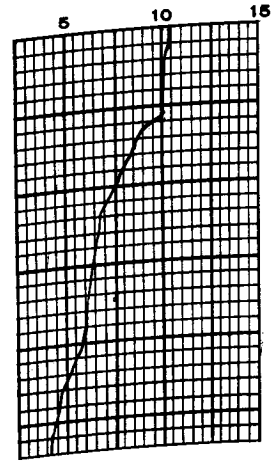

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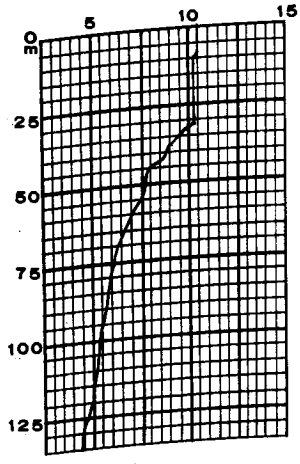

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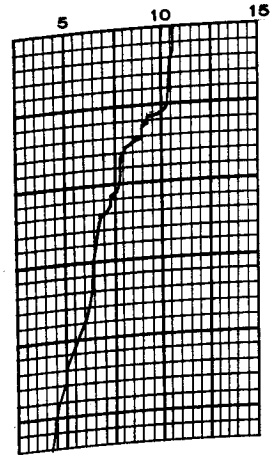

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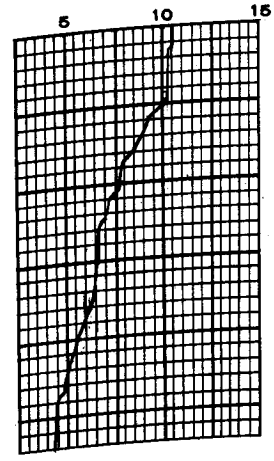

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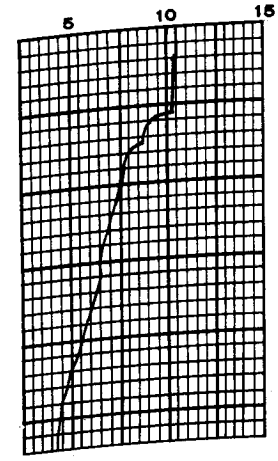

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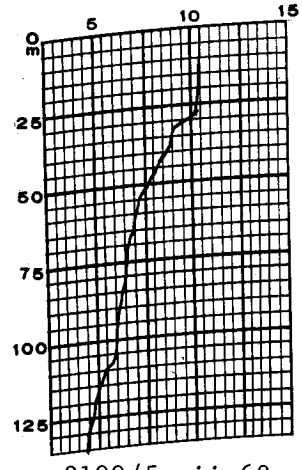

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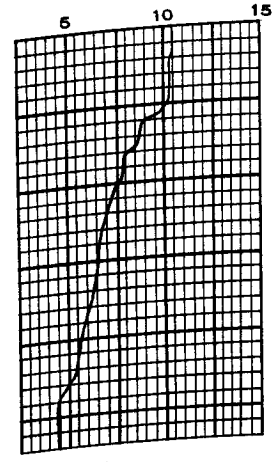

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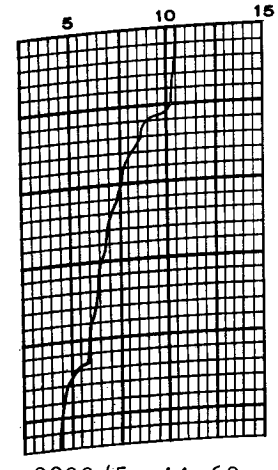

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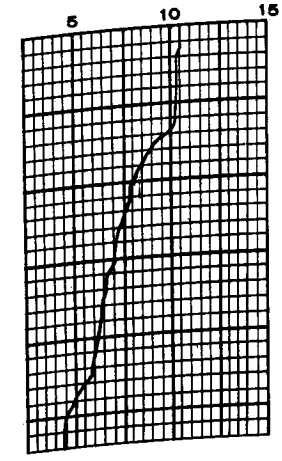

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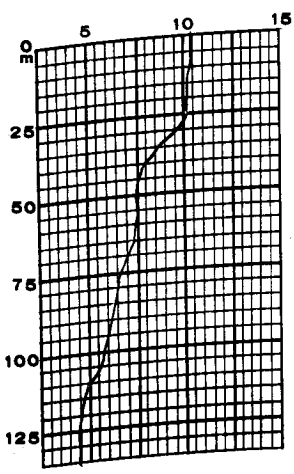

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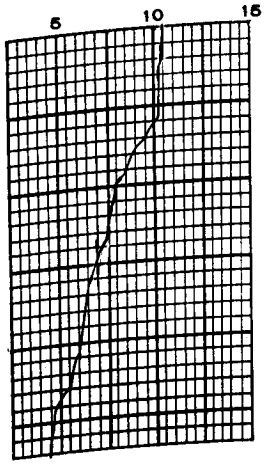

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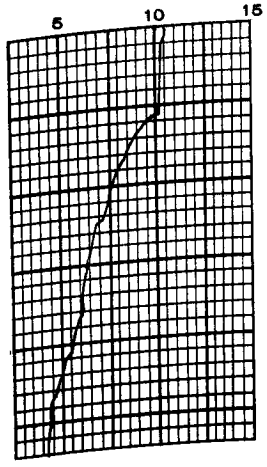

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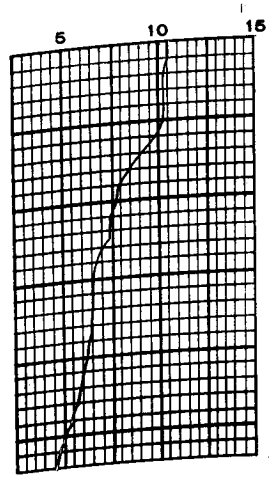

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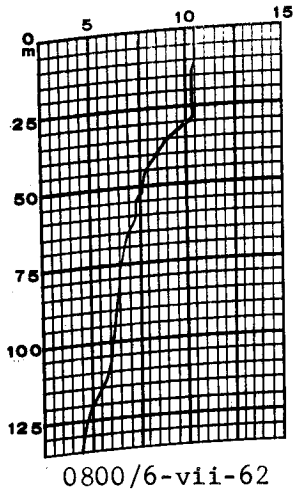

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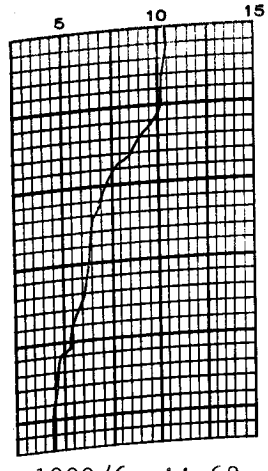

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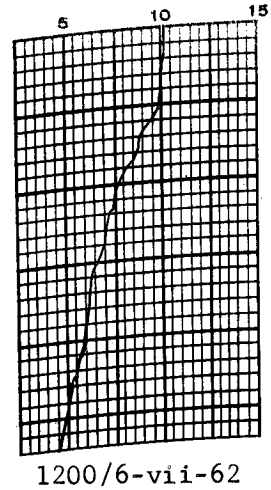

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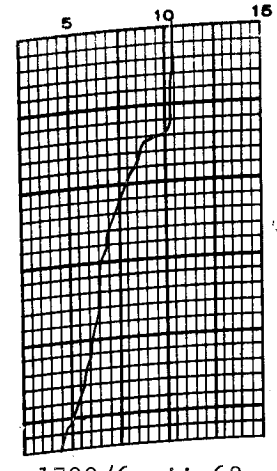

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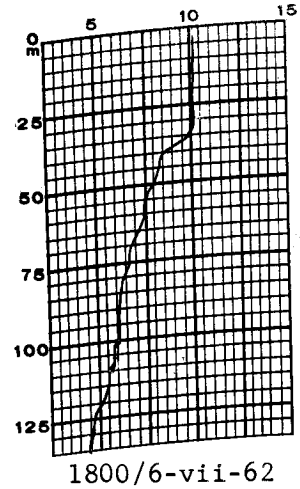

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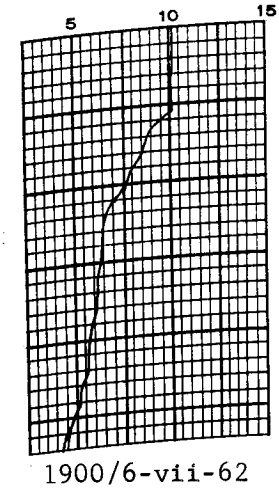

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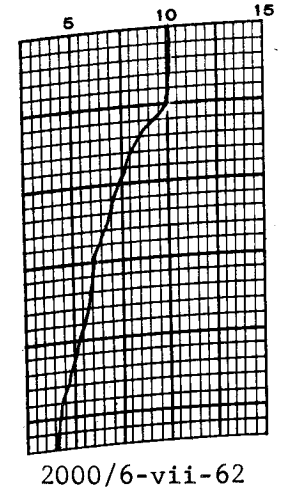

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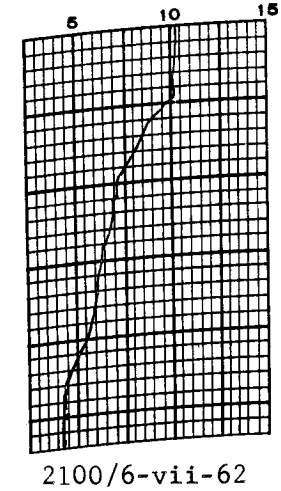

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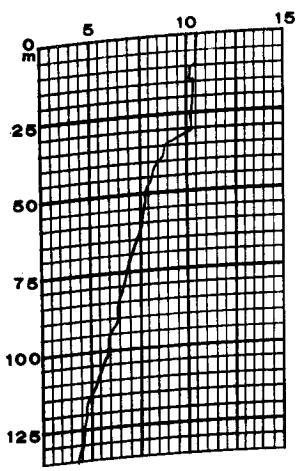

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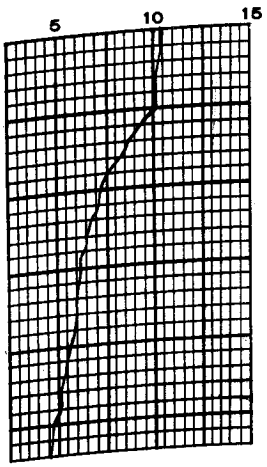

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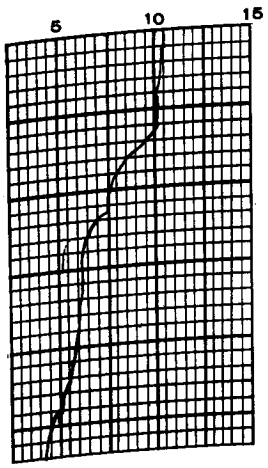

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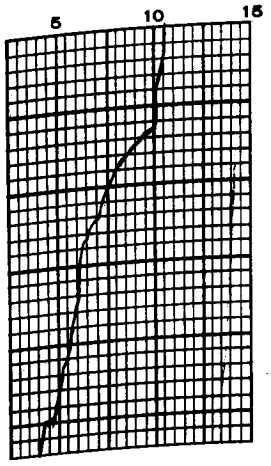

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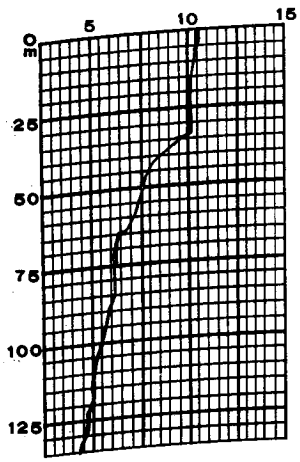

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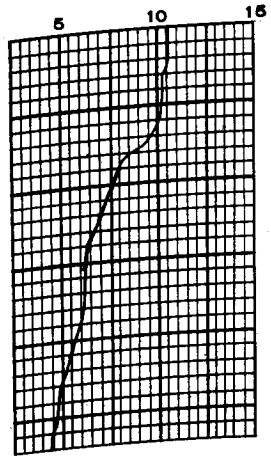

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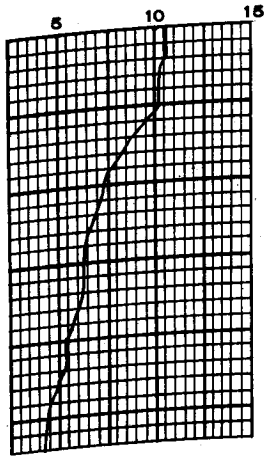

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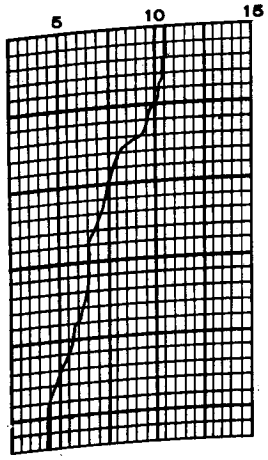

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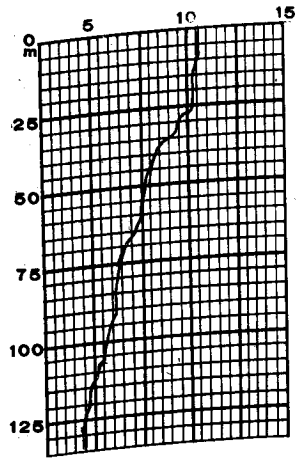

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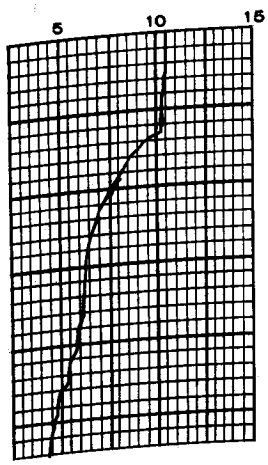

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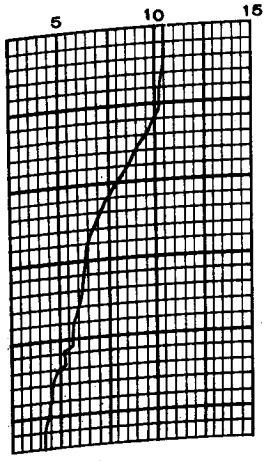

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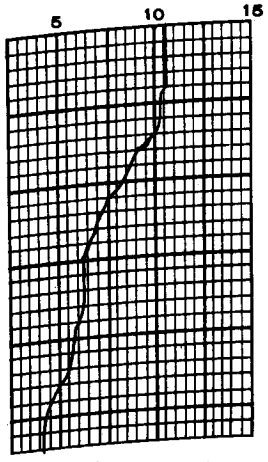

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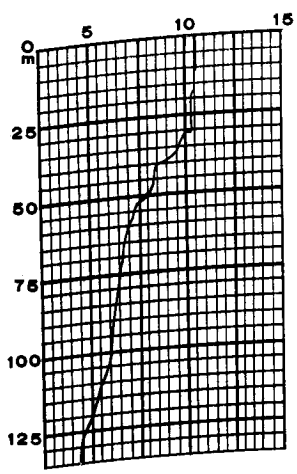

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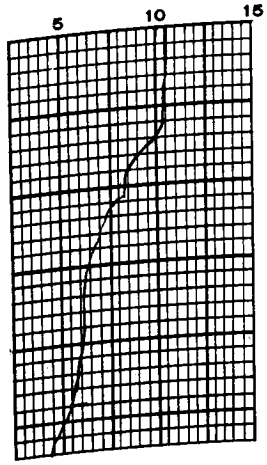

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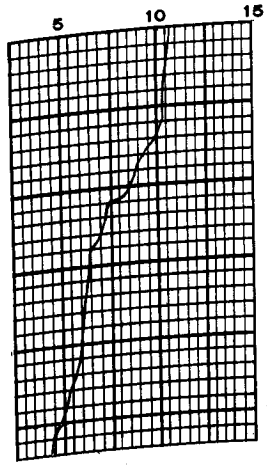

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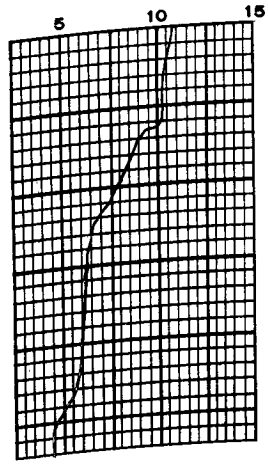

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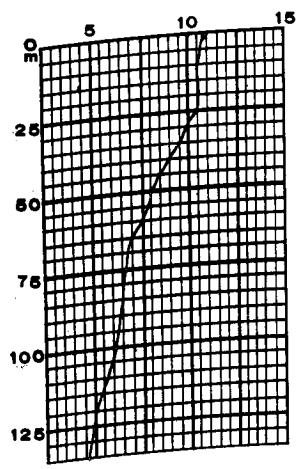

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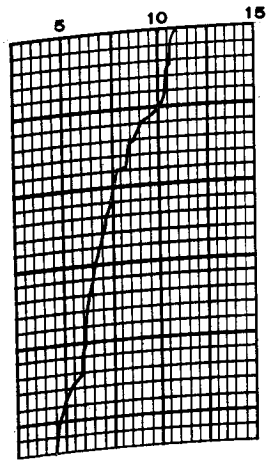

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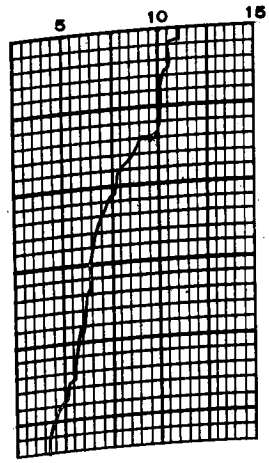

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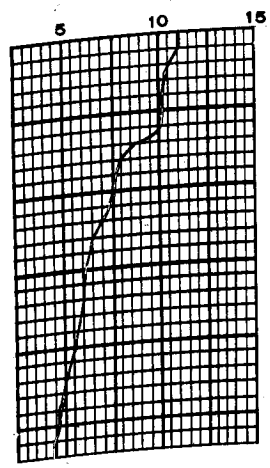

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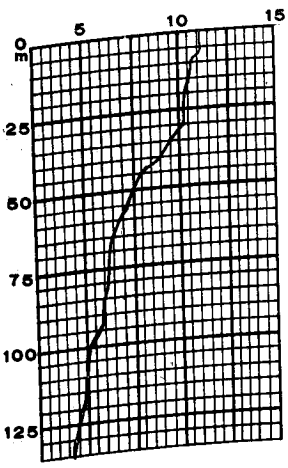

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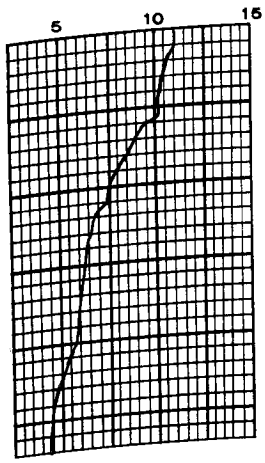

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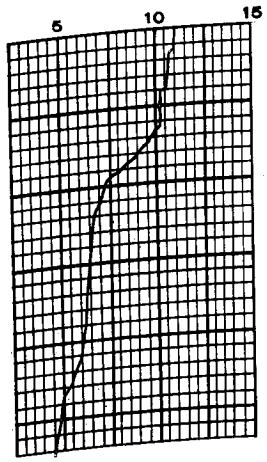

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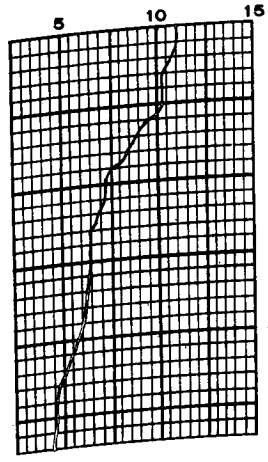

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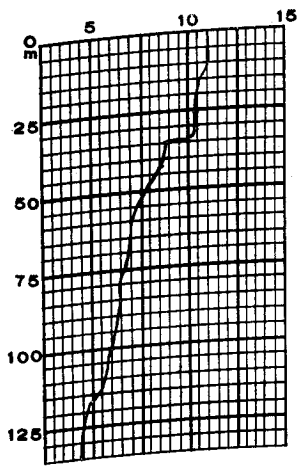

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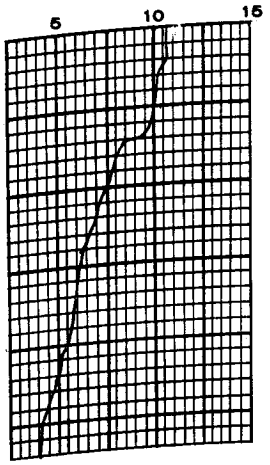

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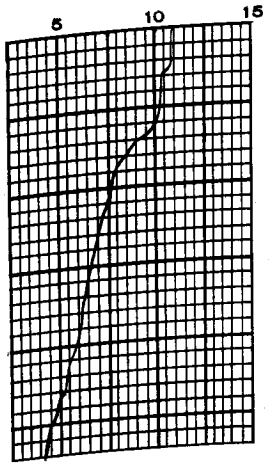

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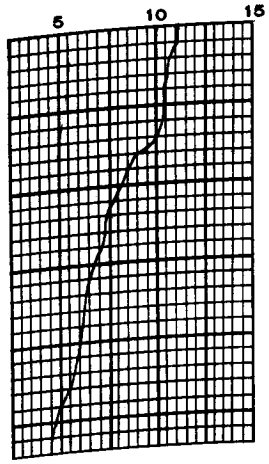

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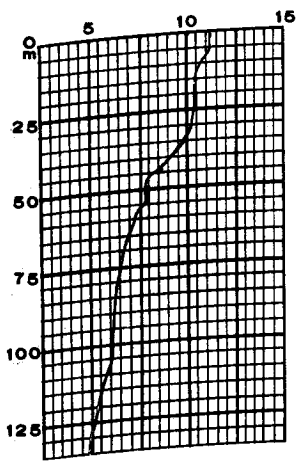

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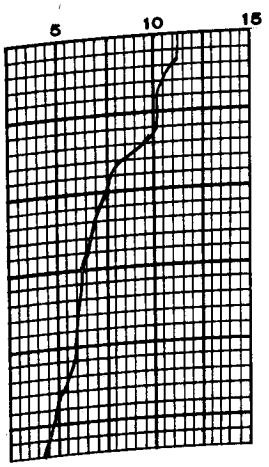

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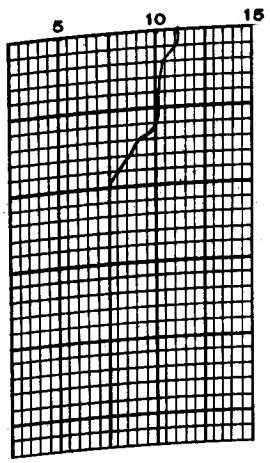

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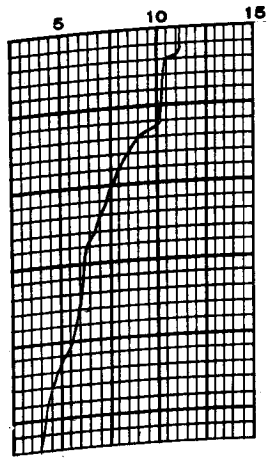

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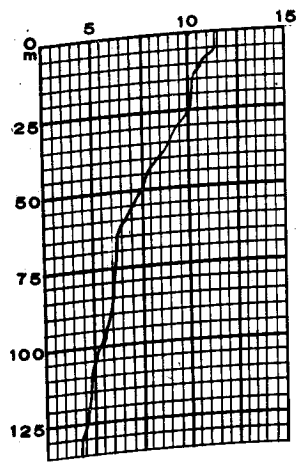

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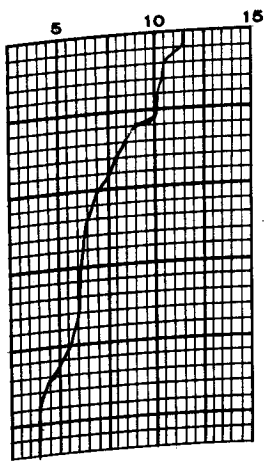

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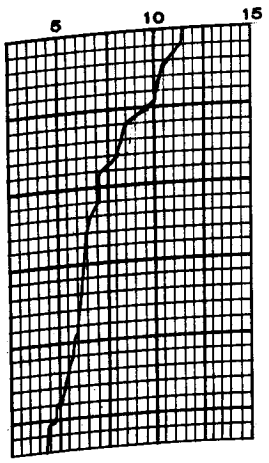

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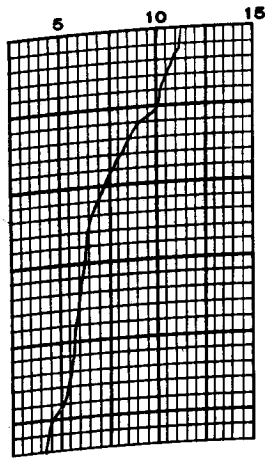

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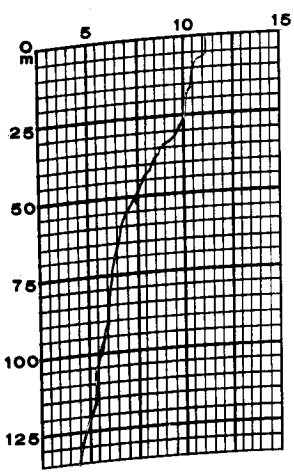

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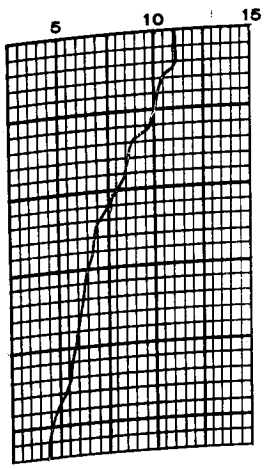

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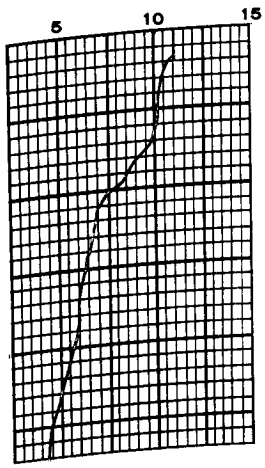

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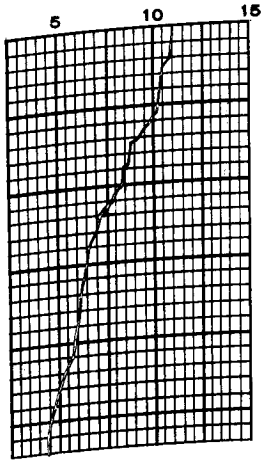

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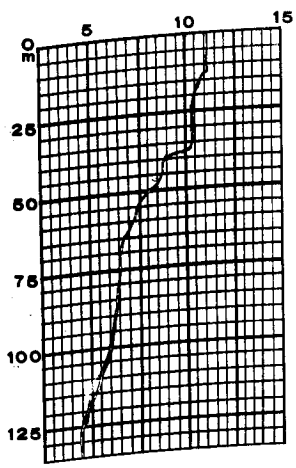

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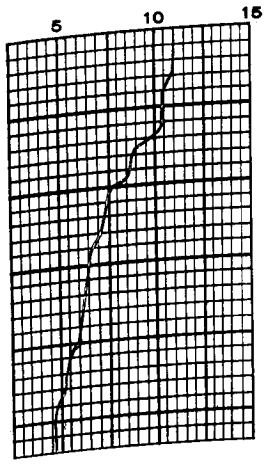

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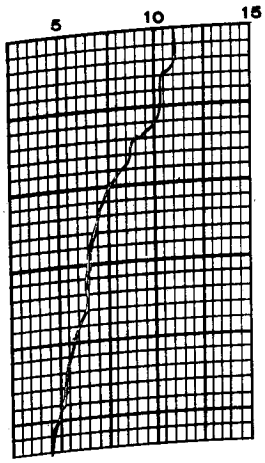

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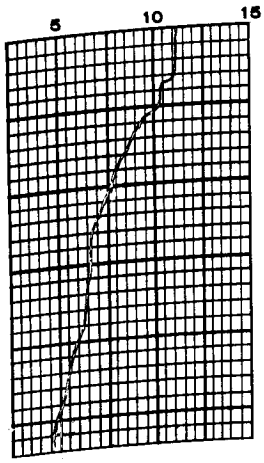

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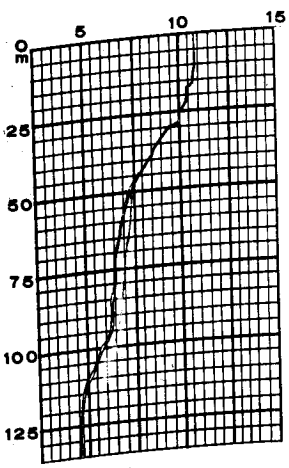

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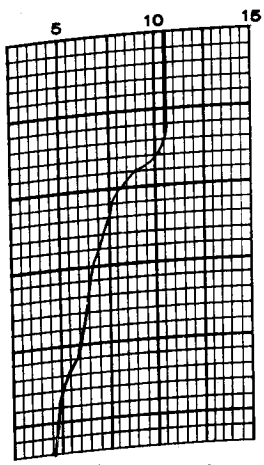

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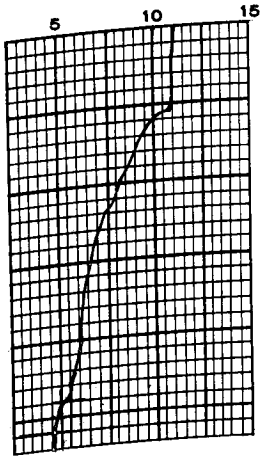

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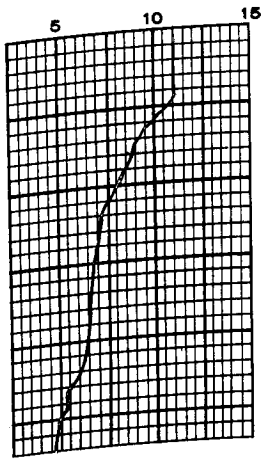

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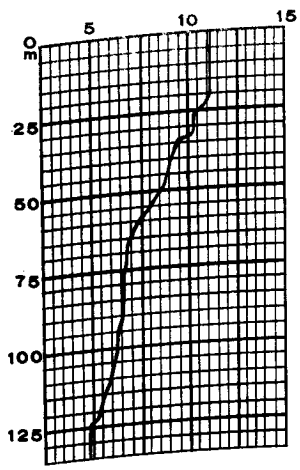

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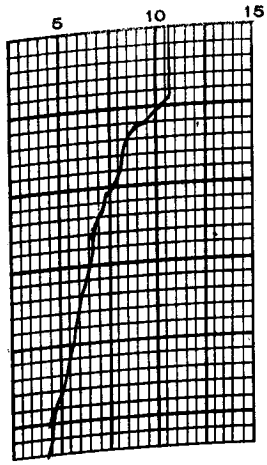

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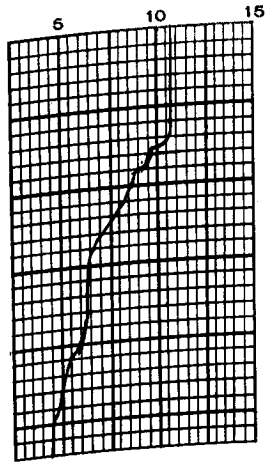

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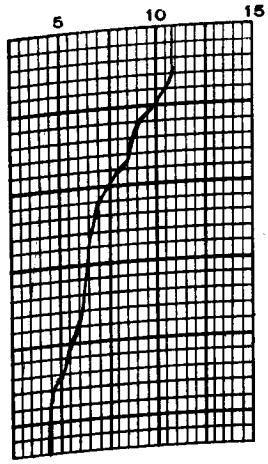

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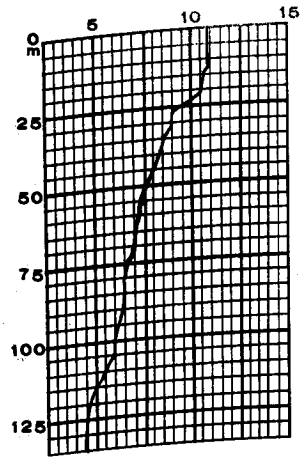

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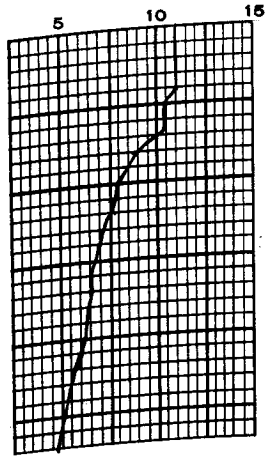

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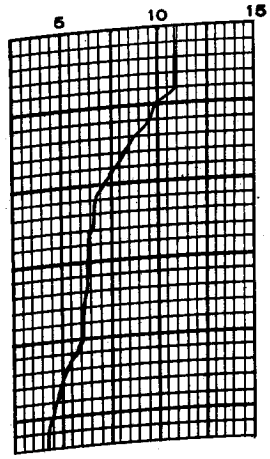

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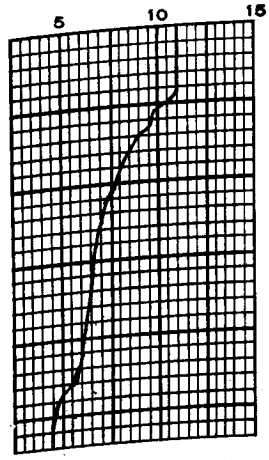

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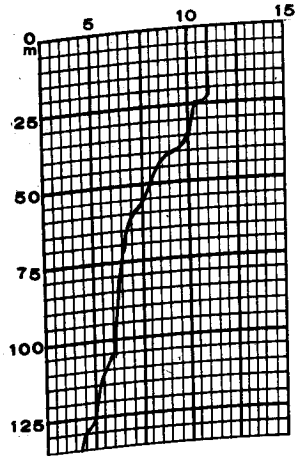

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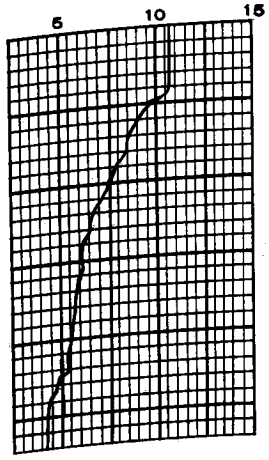

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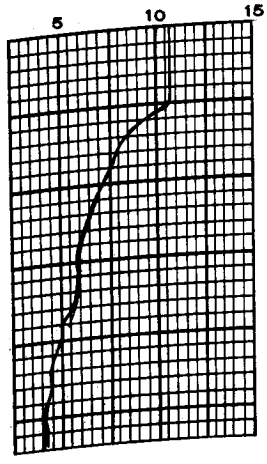

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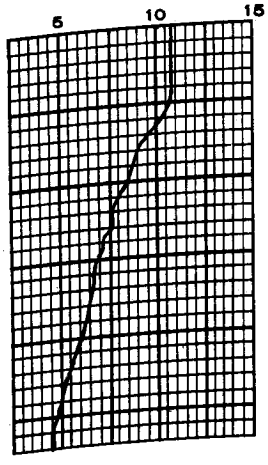

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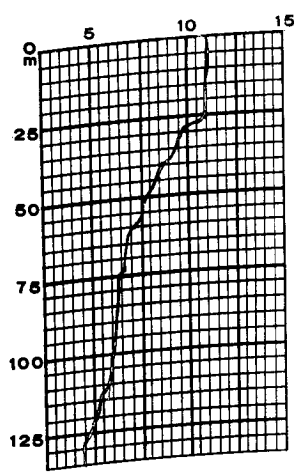

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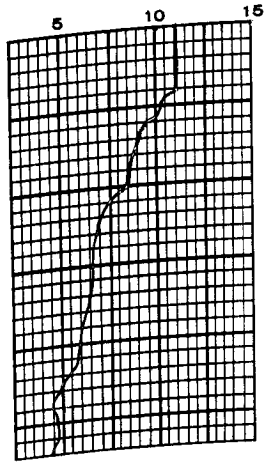

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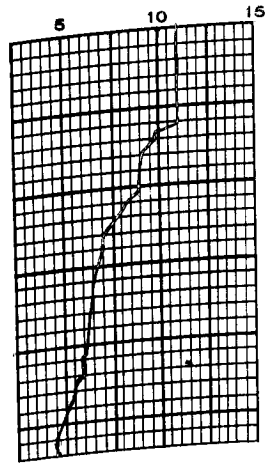

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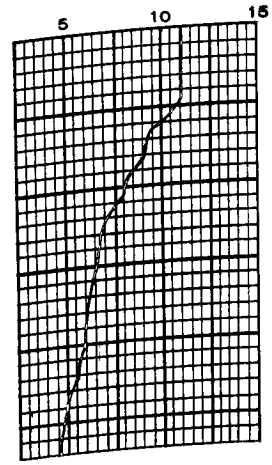

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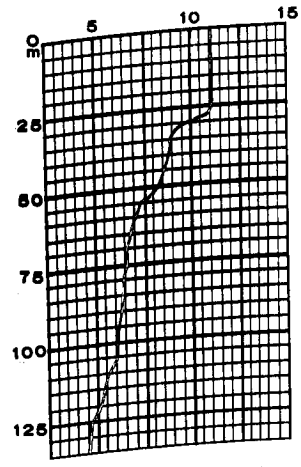

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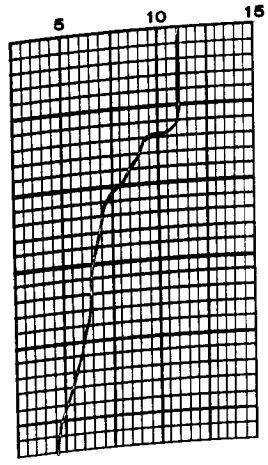

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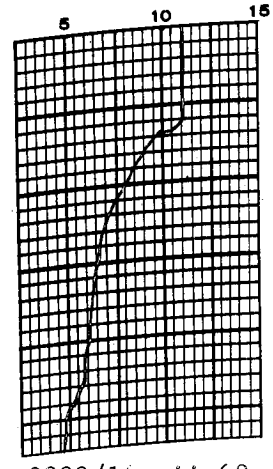

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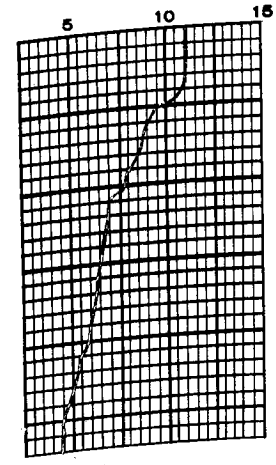

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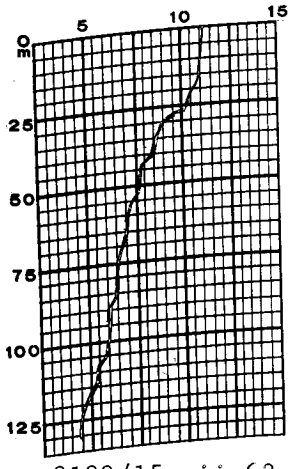

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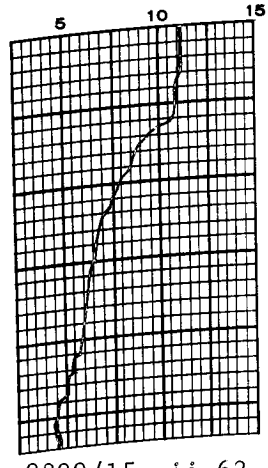

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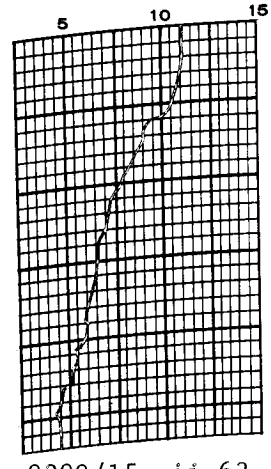

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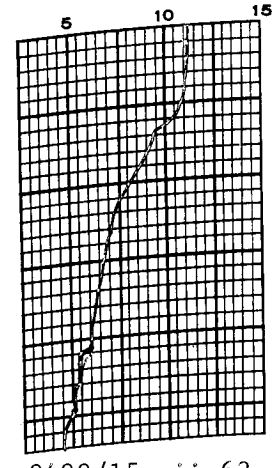

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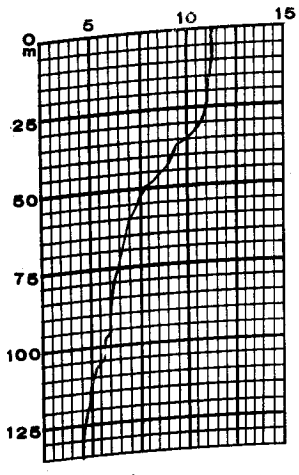

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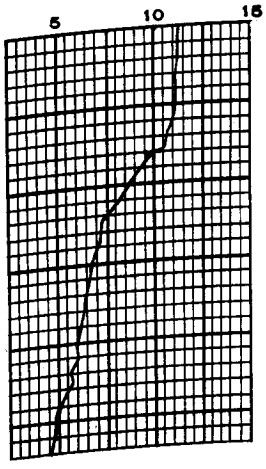

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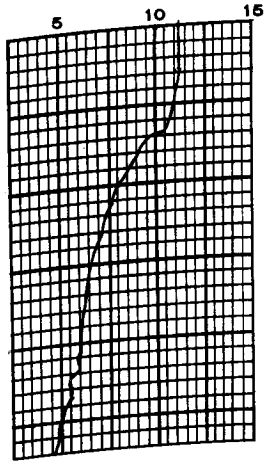

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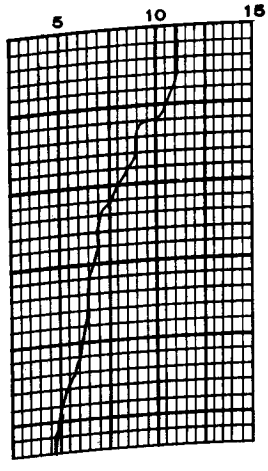

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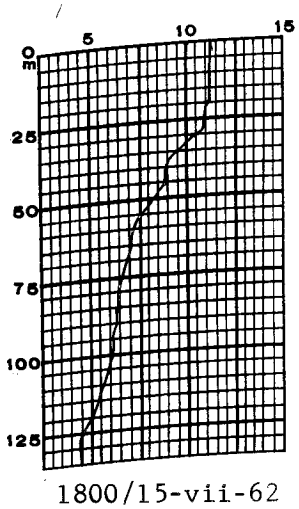

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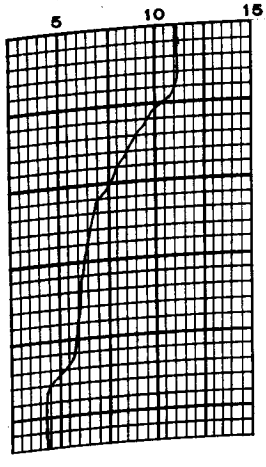

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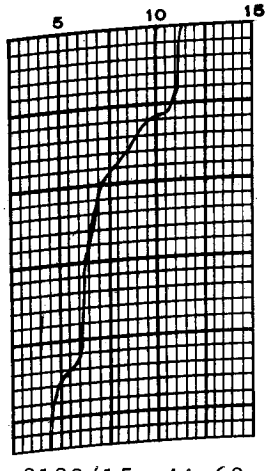

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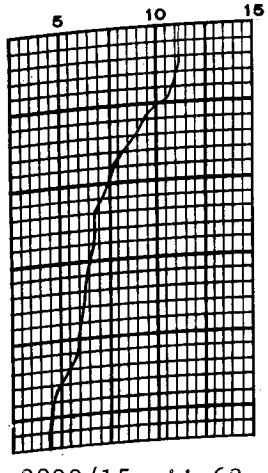

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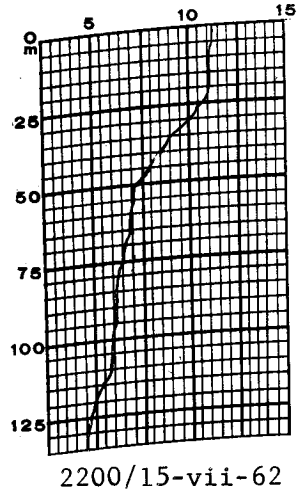

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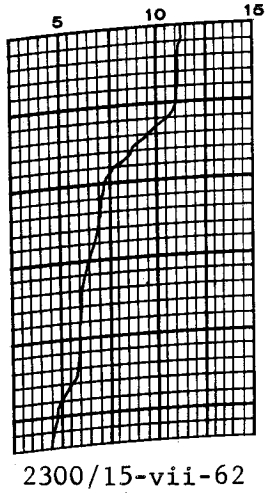

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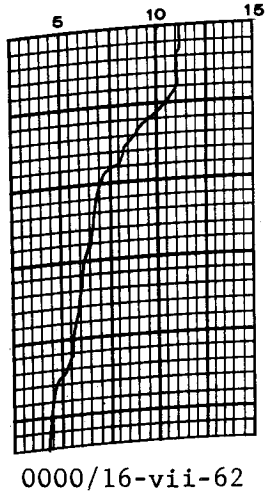

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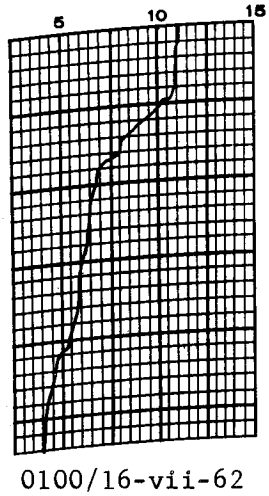

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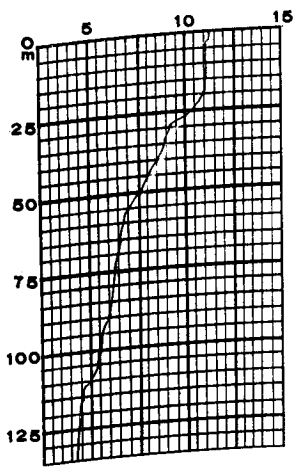

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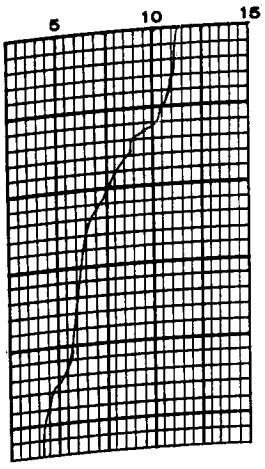

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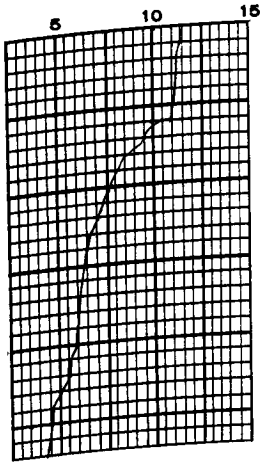

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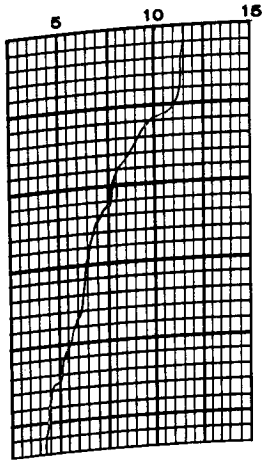

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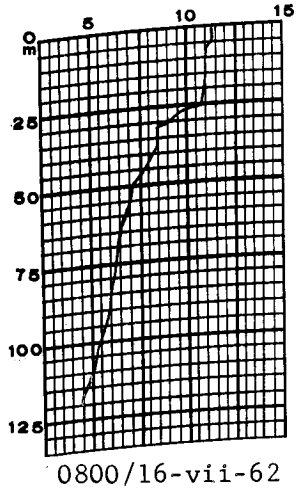

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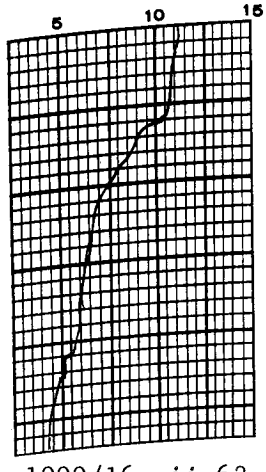

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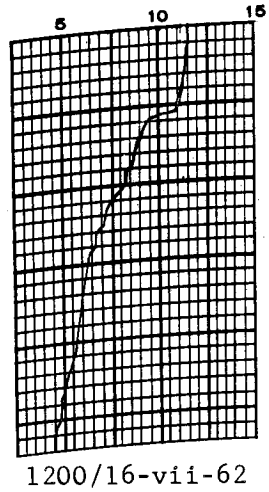

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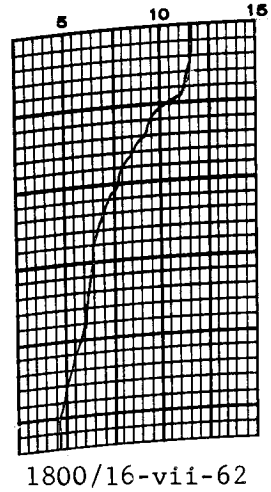

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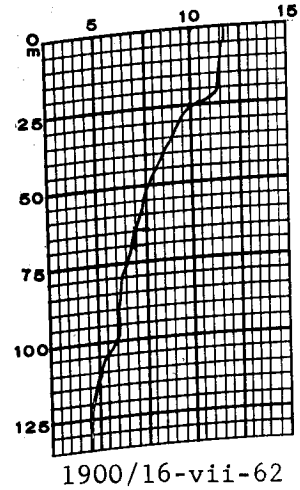

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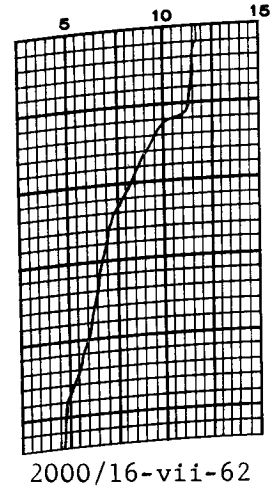

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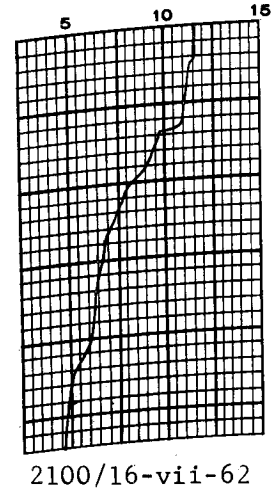

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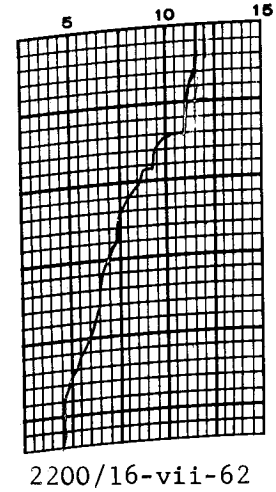

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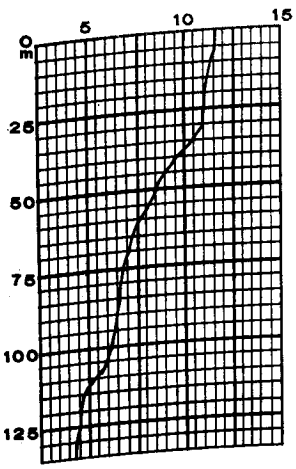

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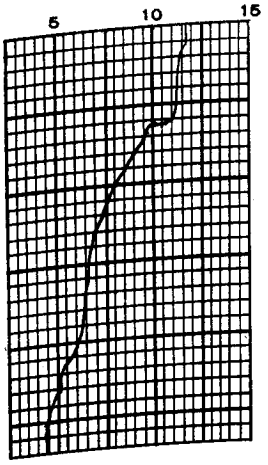

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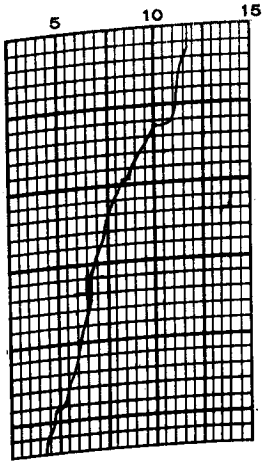

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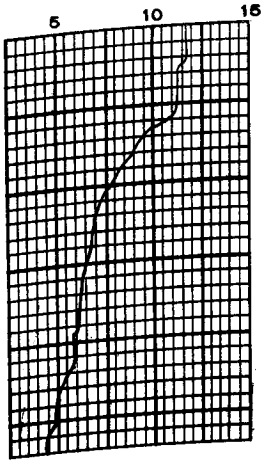

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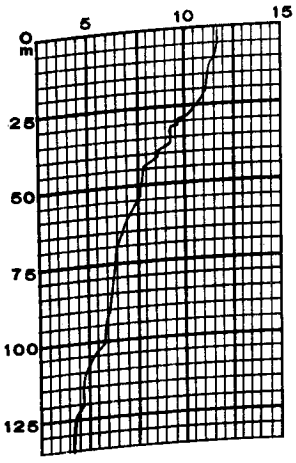

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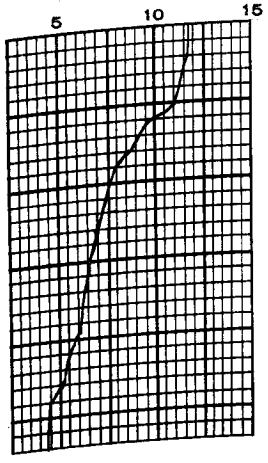

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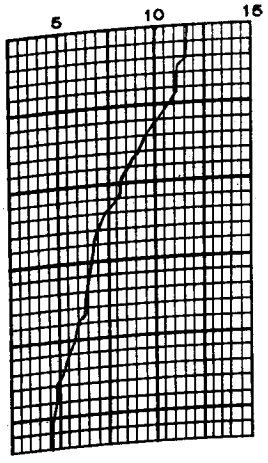

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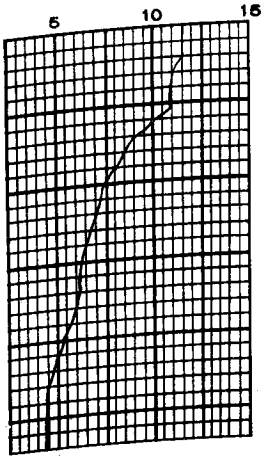

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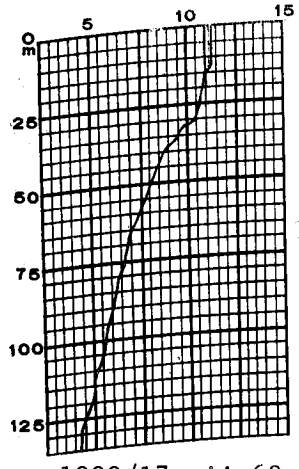

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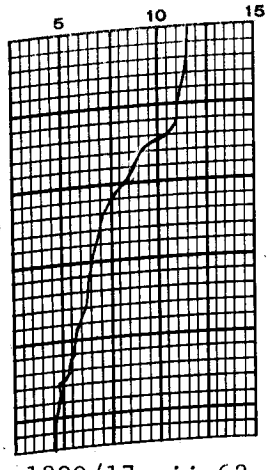

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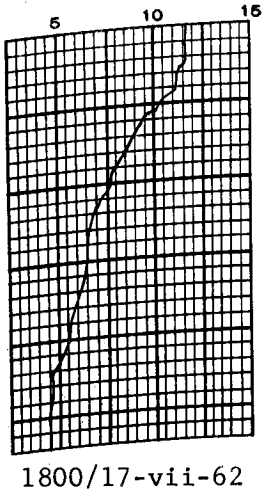

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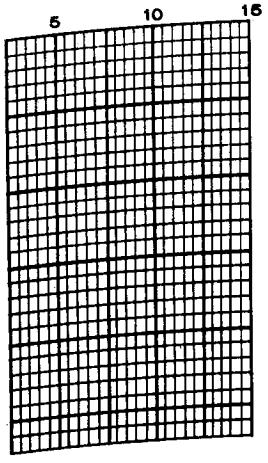

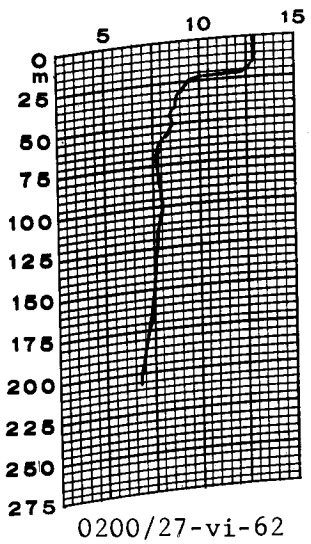

0200/27-vi-62
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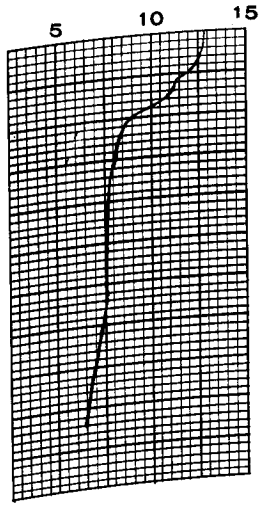
126° 10'w



0400/27-vi-62
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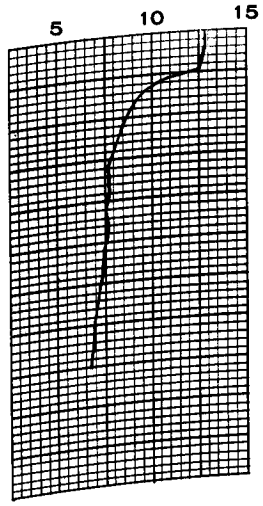

0700/27-vi-62
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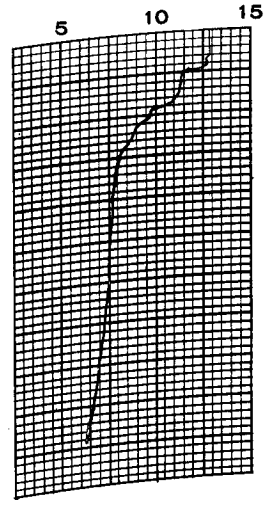

1030/27-vi-62
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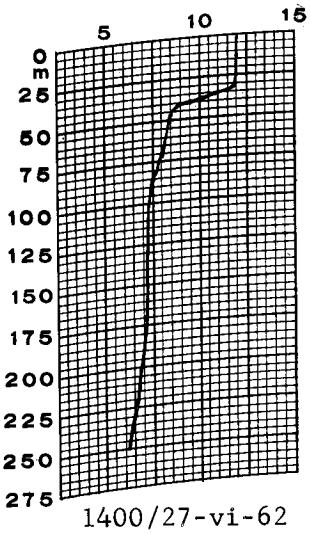

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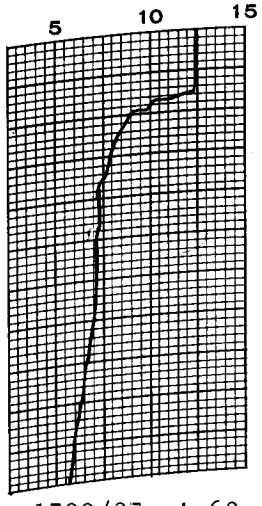

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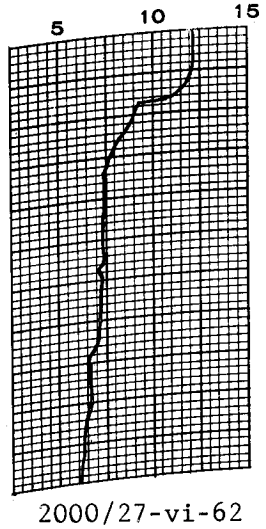

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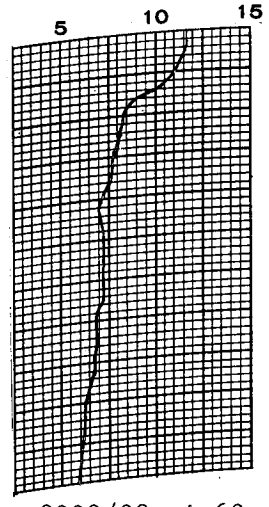

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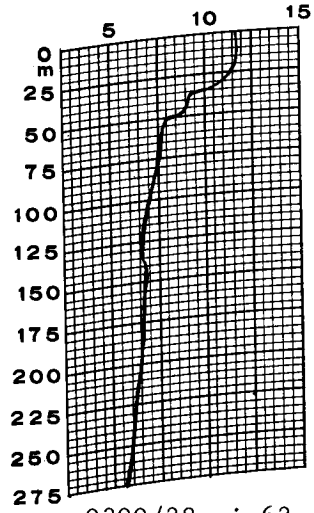

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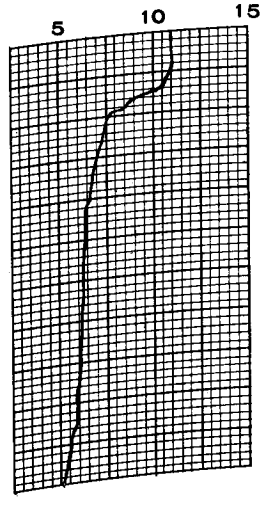

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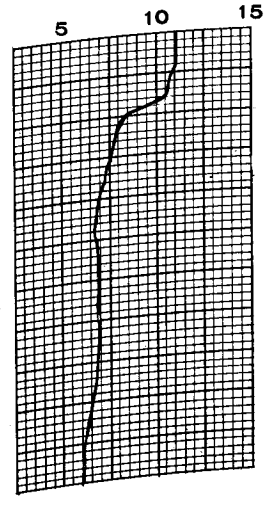

1015/28-vi-62
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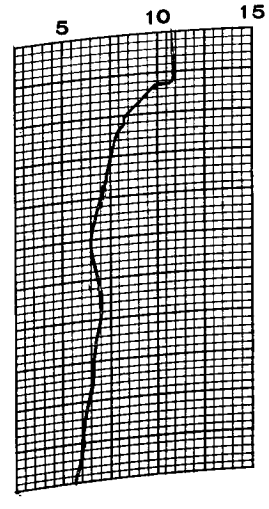

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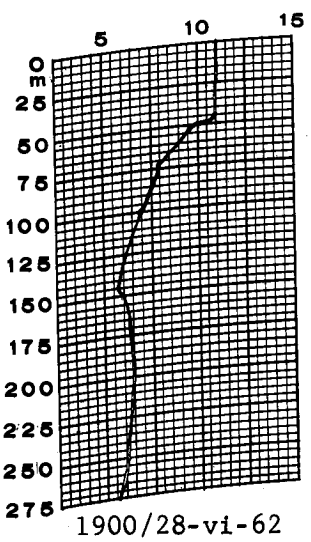

1900/28-vi-62
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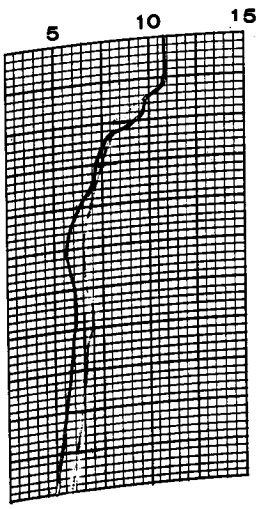

2130/28-vi-62
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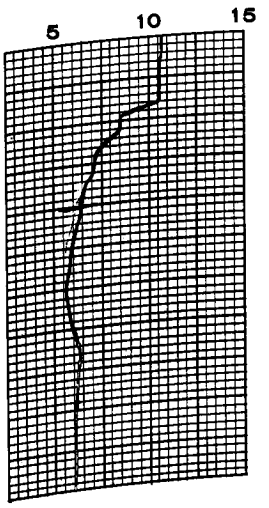

0115/28-vi-62
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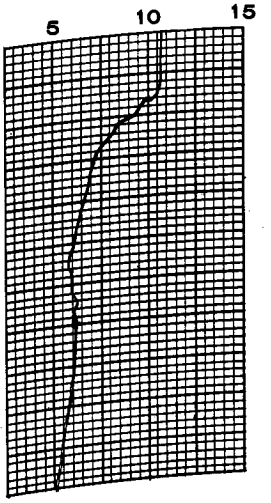

0545/28-vi-62
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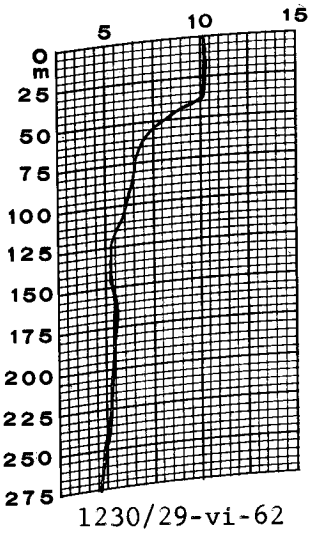

1230/29-vi-62
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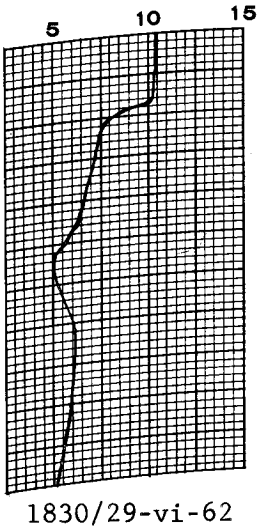

1830/29-vi-62
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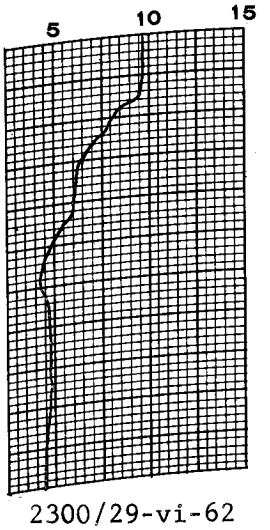

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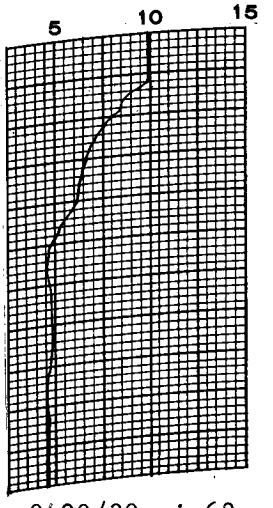

0400/30-vi-62
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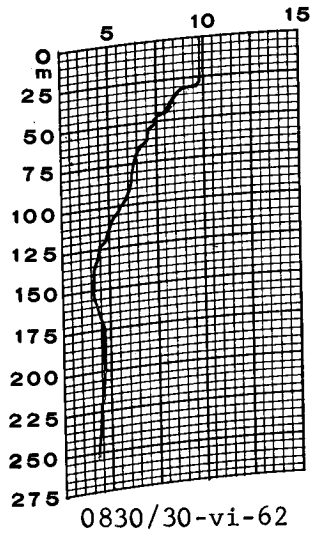
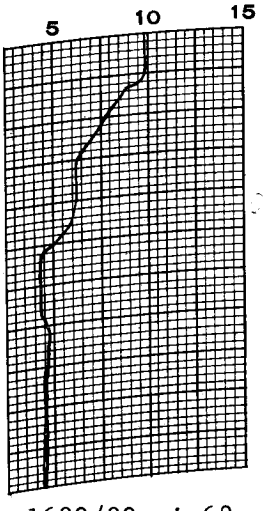


0830/30-vi-62
Grid OS



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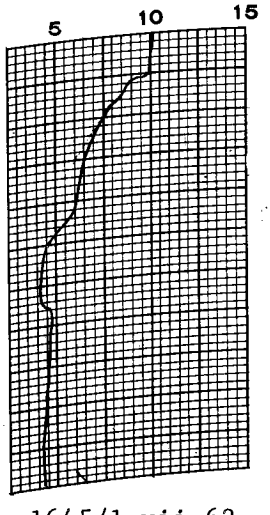
Grid OJ



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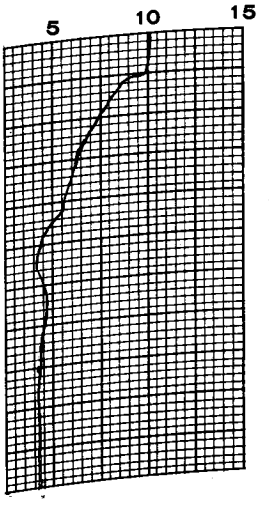

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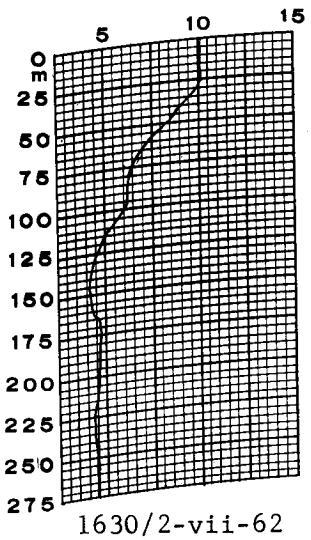
Grid JS



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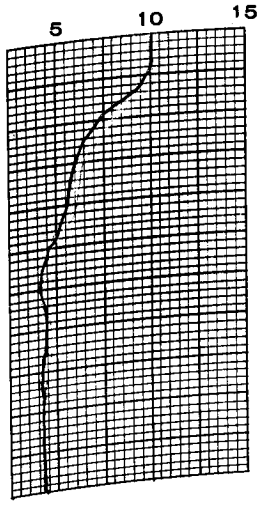

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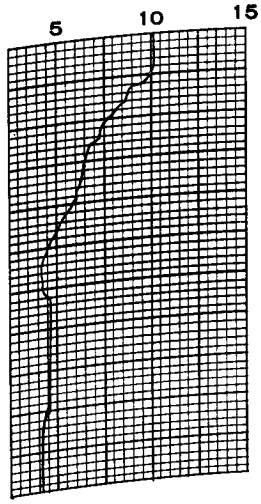
Grid OS



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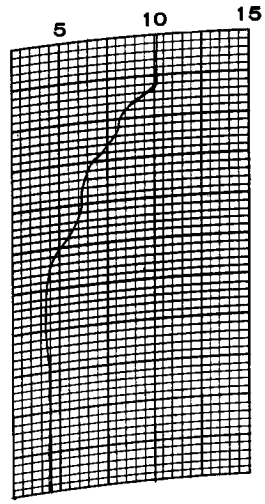

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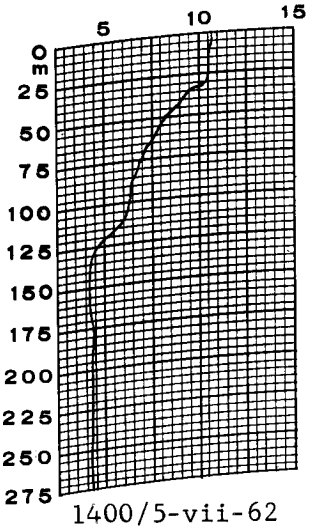

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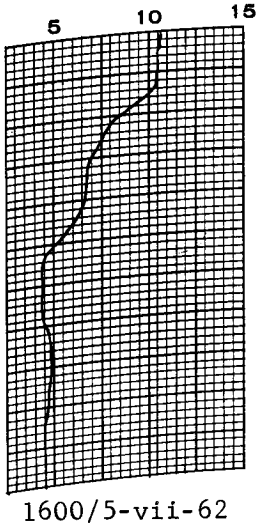
Grid OS



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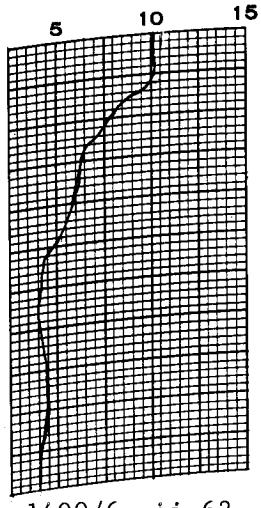
Grid OS



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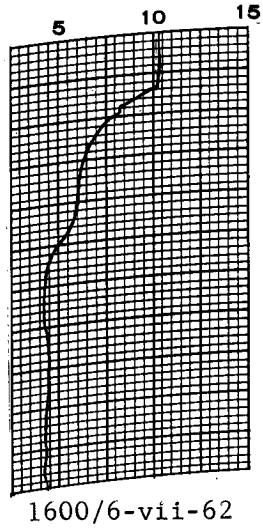

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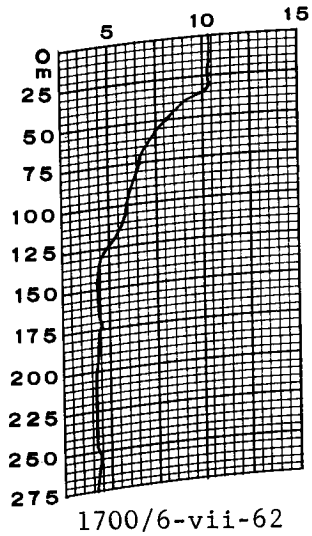

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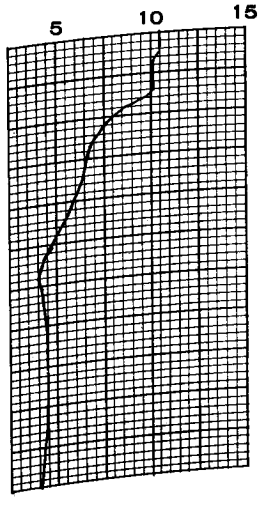

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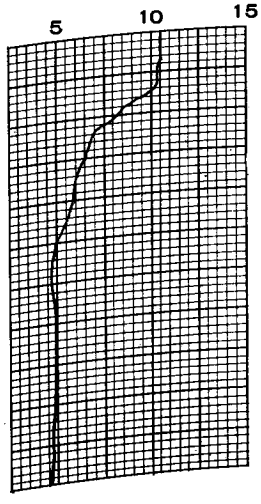

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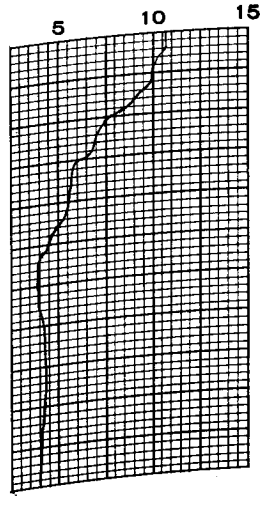

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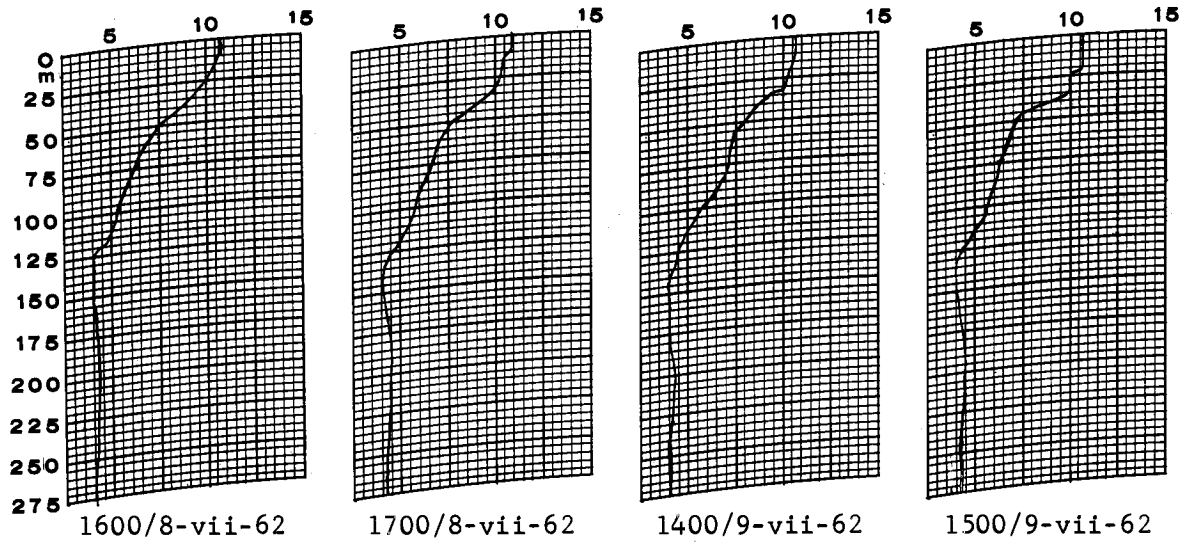

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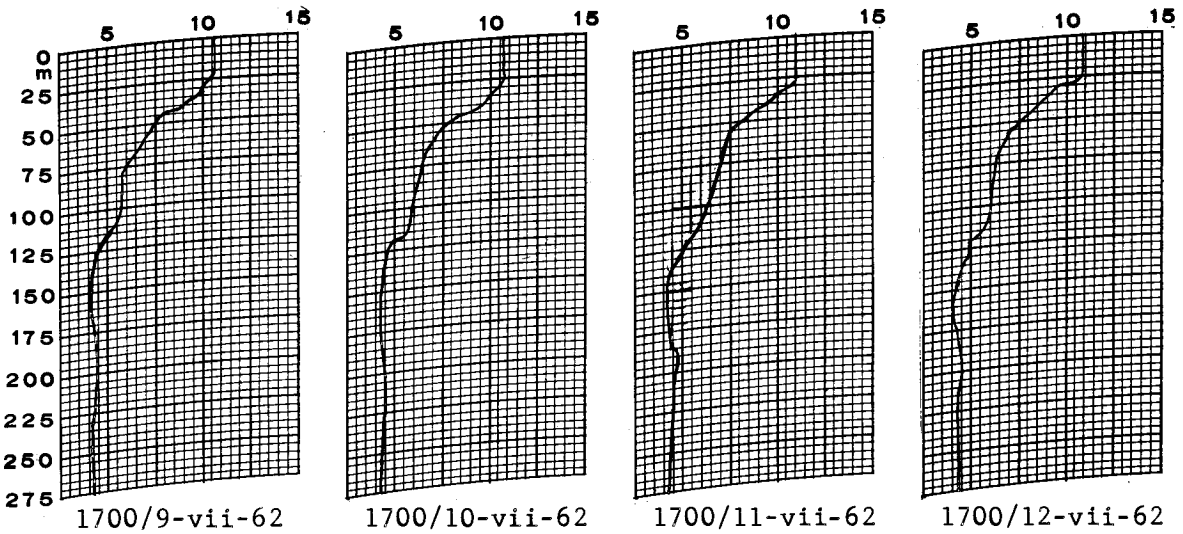
Grid OS

1700/8-vii-62
Grid OS

1400/9-vii-62
Grid OS

1500/9-vii-62
Grid OS



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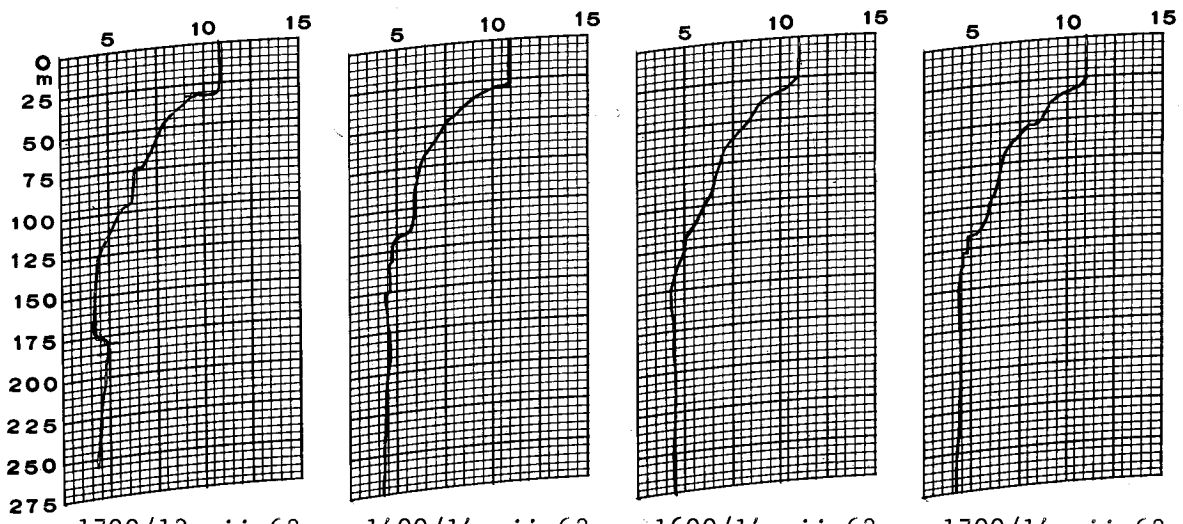
1700/10-vii-62
Grid OS

1700/11-vii-62
Grid OK

1700/12-vii-62
Grid OK



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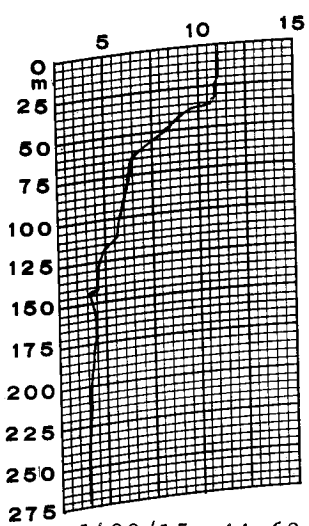
Grid OK

1400/14-vii-62
Grid OS

1600/14-vii-62
Grid OS

1700/14-vii-62
Grid OS



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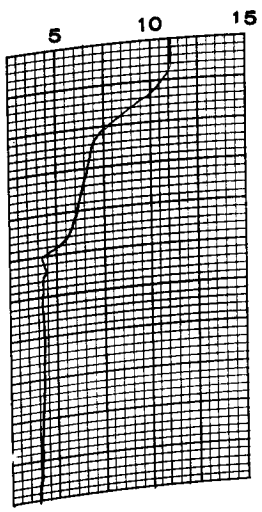

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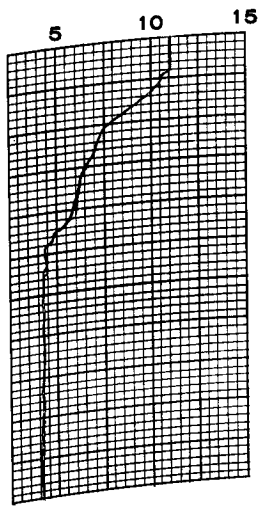

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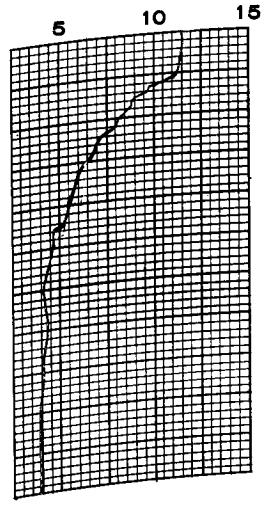

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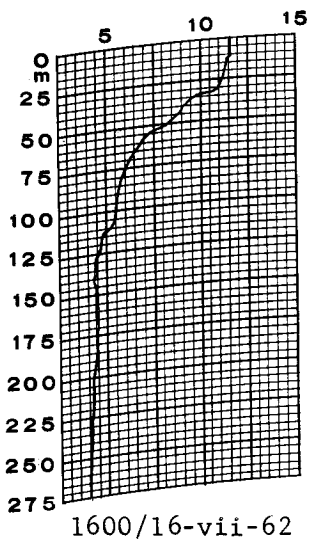
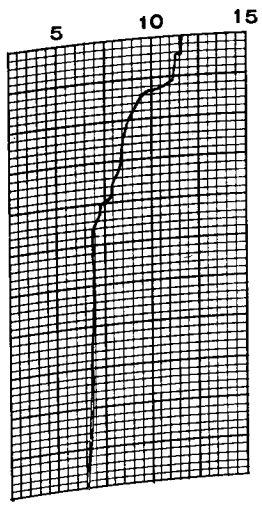
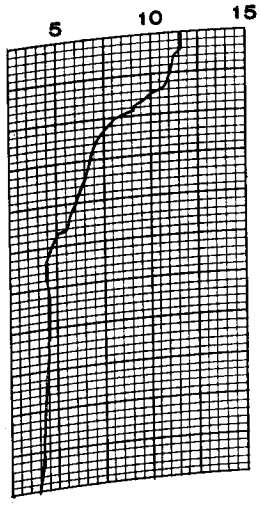
Grid OS



1600/16-vii-62
Grid OS



1700/16-vii-62
Grid OS



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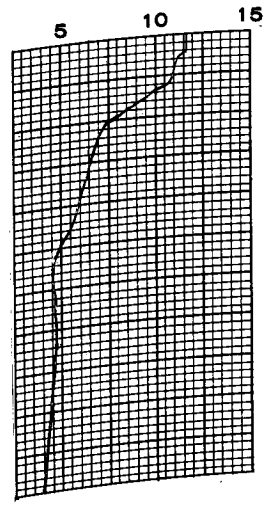

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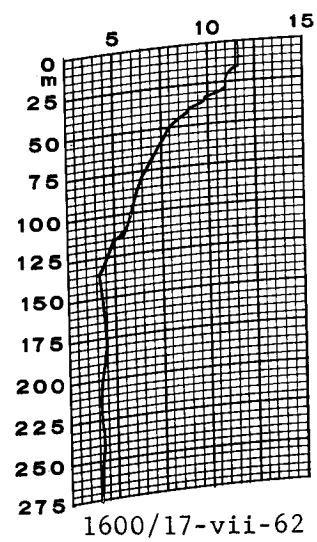

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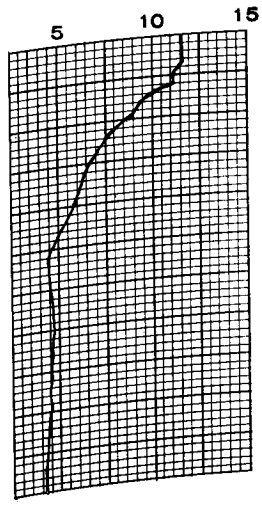

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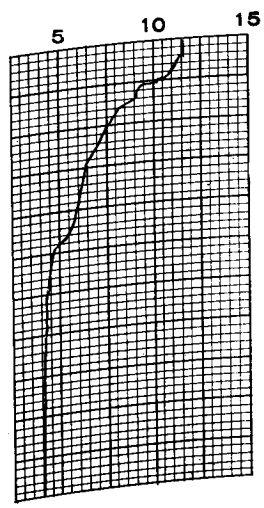

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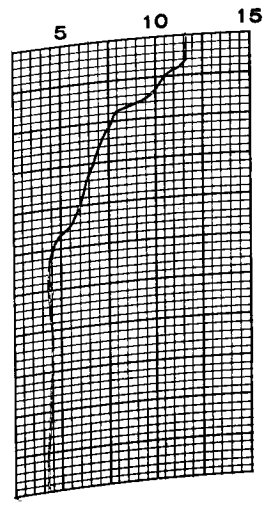

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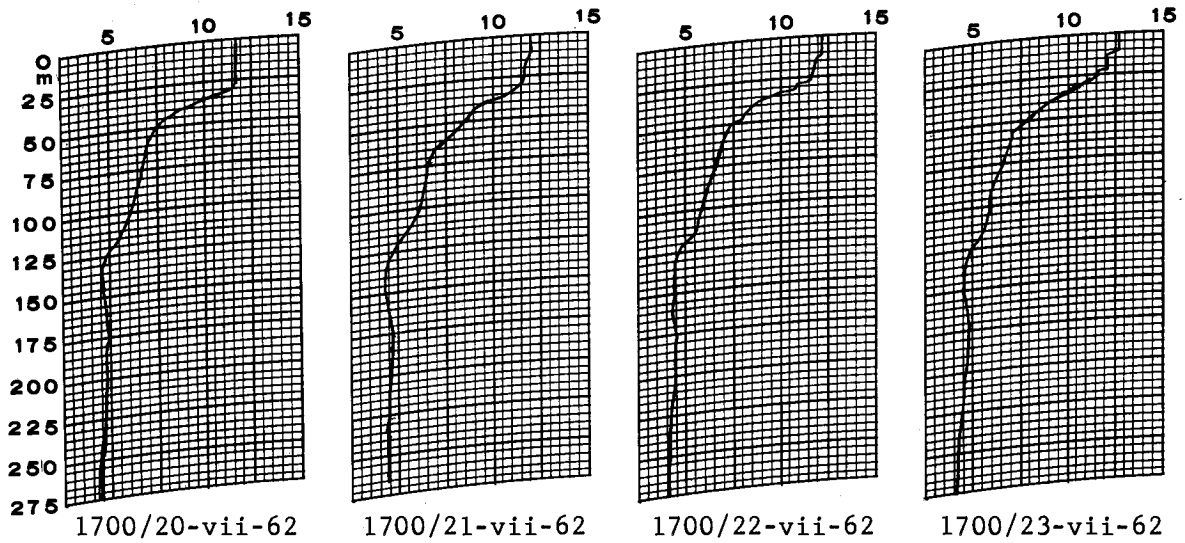
Grid OS

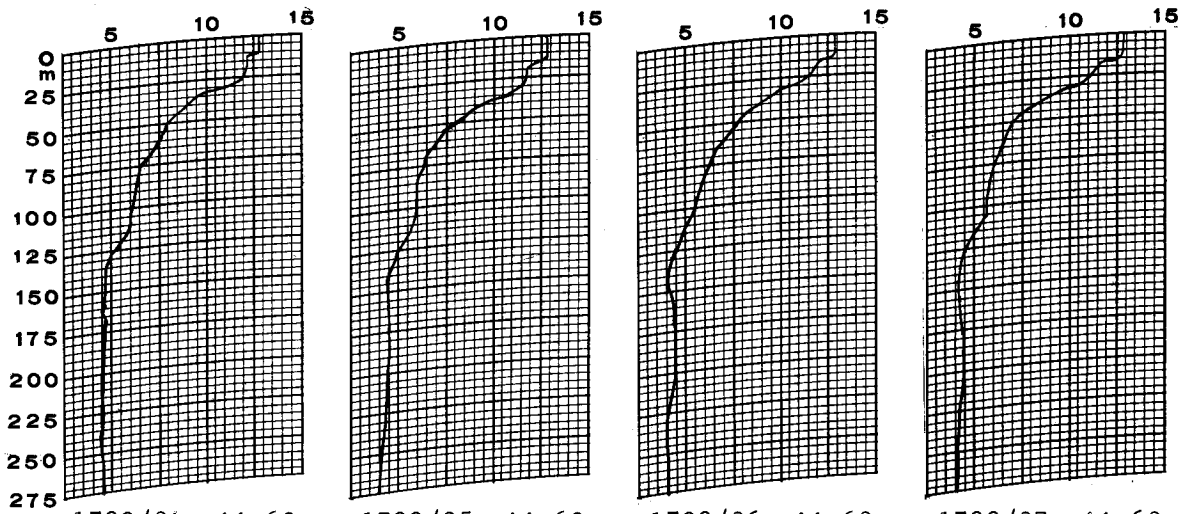


1700/20-vii-62
Grid OS

1700/21-vii-62
Grid OJ

1700/22-vii-62
Grid OS

1700/23-vii-62
Grid OS



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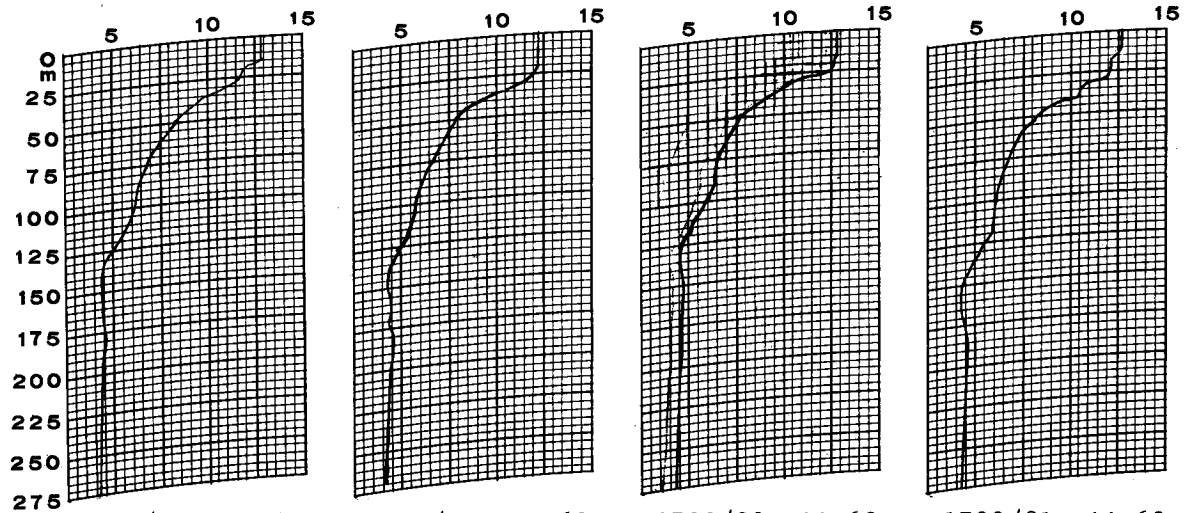
Grid OS

1700/25-vii-62
Grid KJ

1700/26-vii-62
Grid OS

1700/27-vii-62
Grid OS



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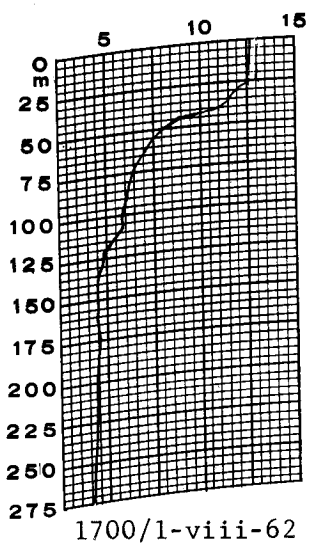
Grid OS

1700/29-vii-62
Grid KS

1700/30-vii-62
Grid OS

1700/31-vii-62
Grid KS



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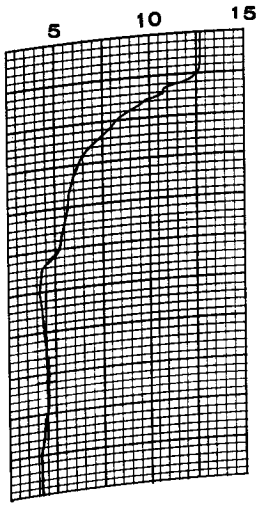
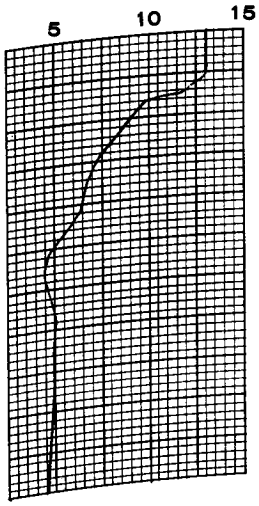
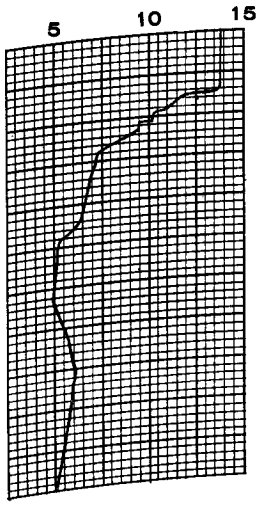
Grid OJ



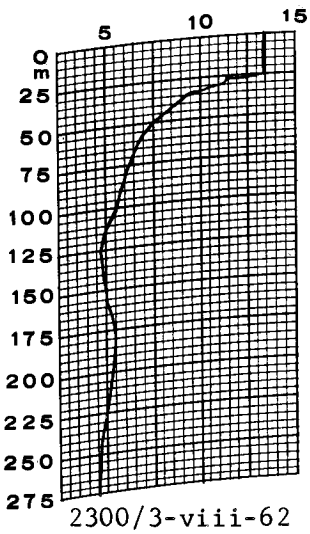
1700/2-viii-62
Grid OK



1200/3-viii-62
Grid KP



1600/3-viii-62
Grid KU



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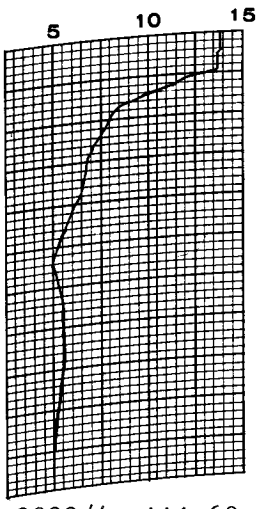
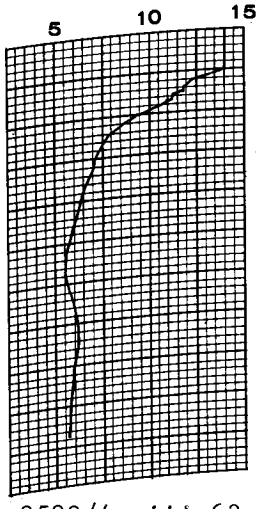
141° 40'w



0200/4-viii-62
49° 41'n
140° 40'w



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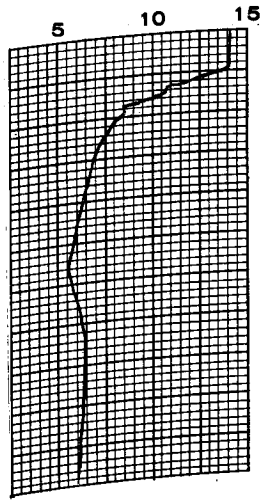
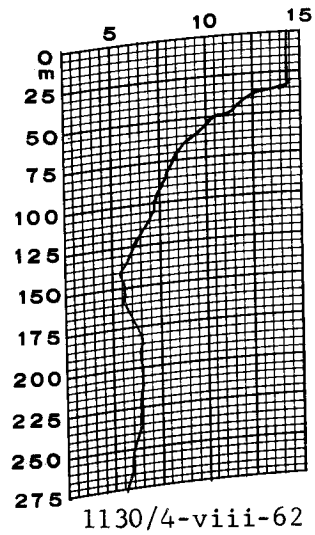
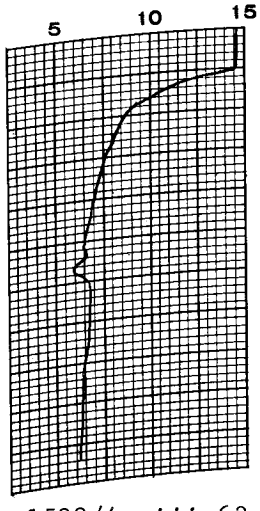
139° 40'w



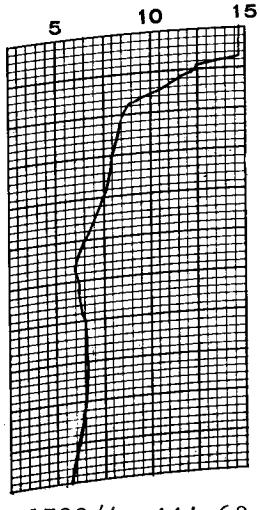
0900/4-viii-62
49° 32'n
138° 40'w



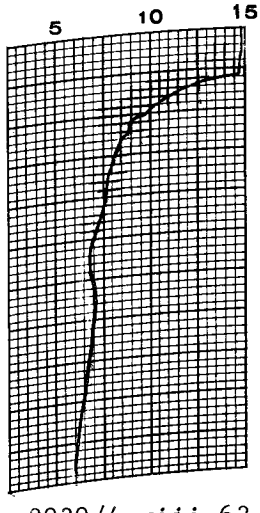
1130/4-viii-62
49° 30'n
137° 40'w



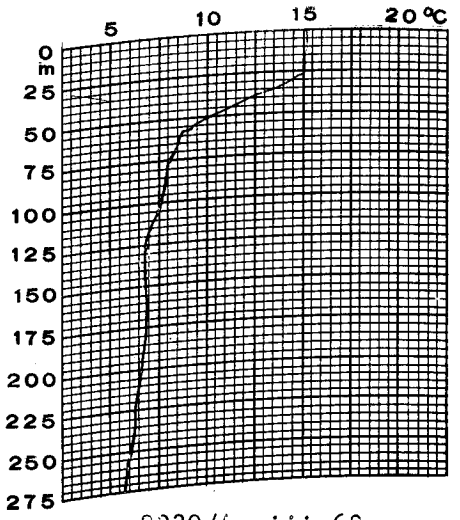
1500/4-viii-62
49° 22'n
136° 40'w



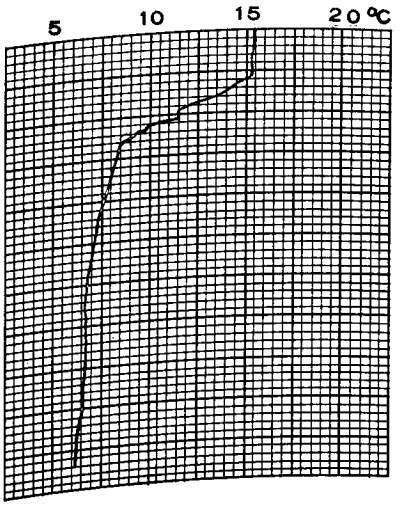
1700/4-viii-62
49° 19'n
135° 40'w



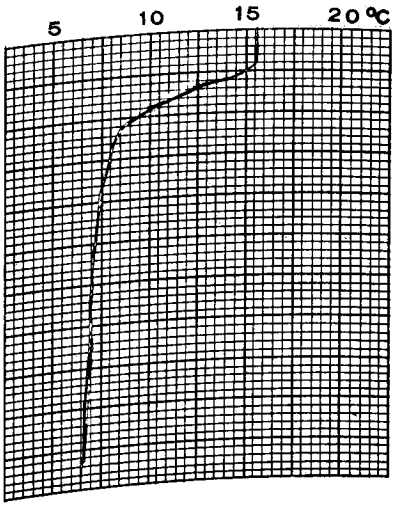
2030/4-viii-62
49° 15'n
134° 40'w



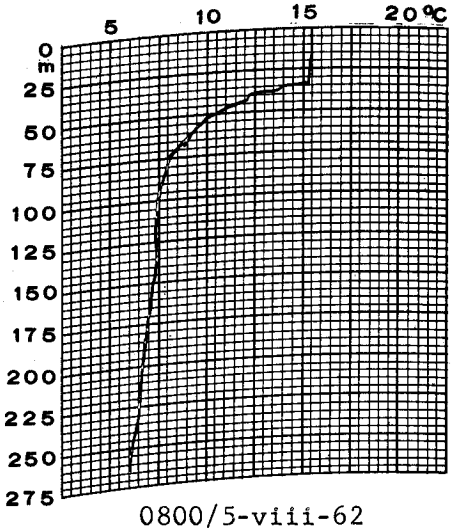
2330/4-viii-62
49° 11'n
133° 40'w



0230/5-viii-62
49° 04'n
132° 40'w



0530/5-viii-62
49° 04'n
131° 43'w



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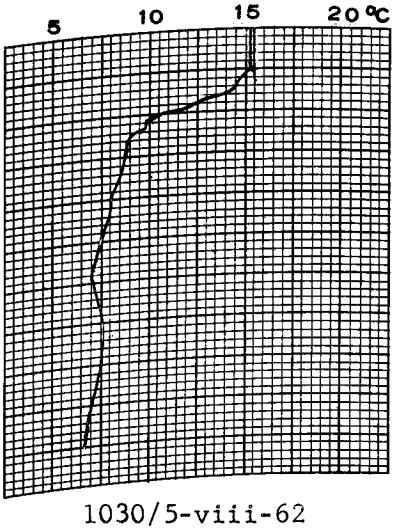
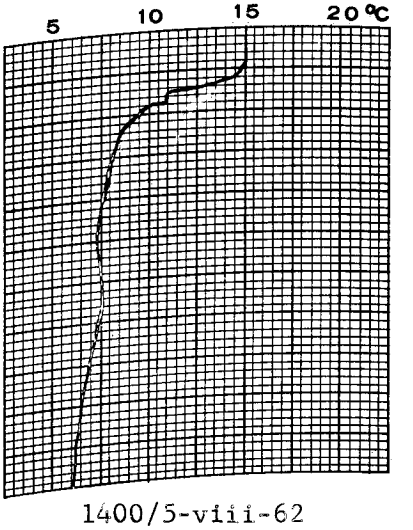
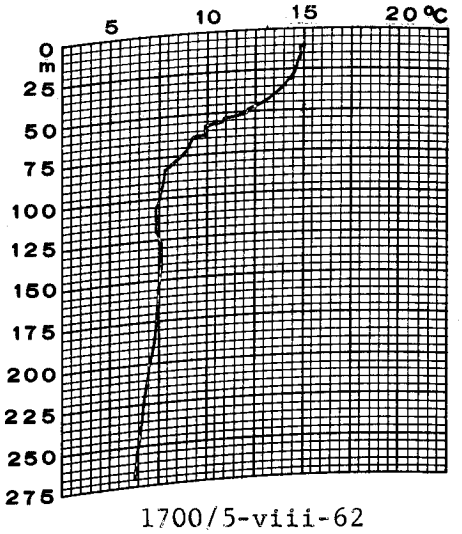
130° 40'w



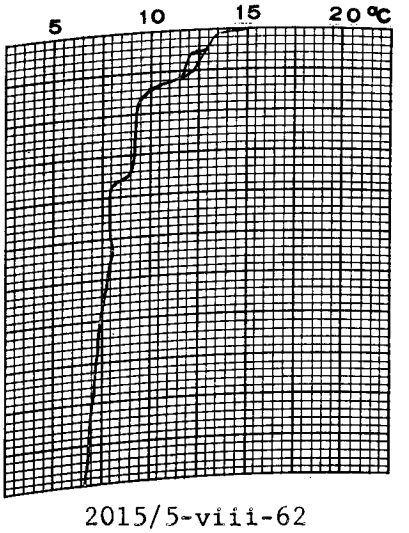
1030/5-viii-62
48° 55'n
129° 40'w



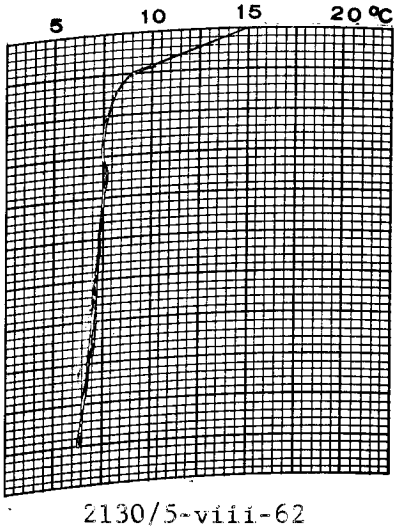
1400/5-viii-62
48° 50'n
128° 40'w



1700/5-viii-62
48° 45'n
127° 45'w



2015/5-viii-62
48° 40'n
126° 40'w



2130/5-viii-62
48° 40'n
126° 20'w

Ocean Weather Station "P"

Patrol No. 50, January 20 - March 1, 1962
Survey P-62-1, March 25 - April 11, 1962
Patrol No. 51, April 16 - May 24, 1962
Survey P-62-2, May 26 - June 27, 1962
Patrol No. 52, June 30 - August 1, 1962

Section III

Bathythermograms in the OCEAN series

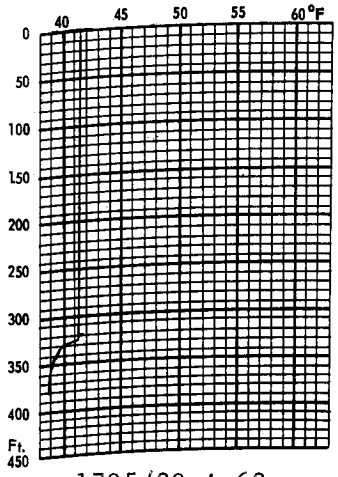
Ocean Weather Station "P"

Patrol No. 50, January 20 - March 1, 1962
Survey P-62-1, March 25 - April 11, 1962
Patrol No. 51, April 16 - May 24, 1962
Survey P-62-2, May 26 - June 27, 1962
Patrol No. 52, June 30 - August 1, 1962

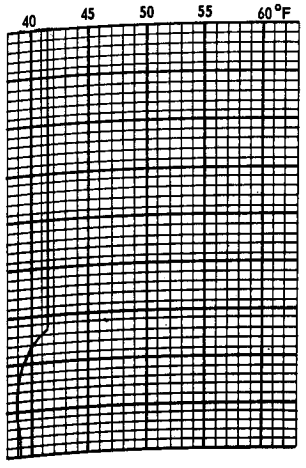
Section III

Bathythermograms in the OCEAN series

Patrol No. 50, C.C.G.S. "Stonetown", 15-minute intervals



1705/20-i-62



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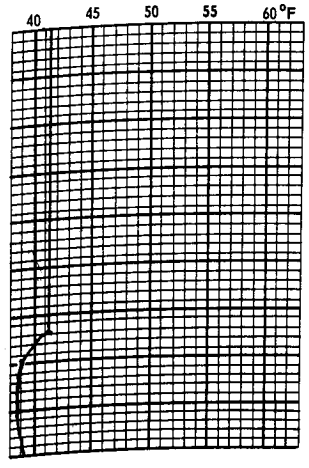

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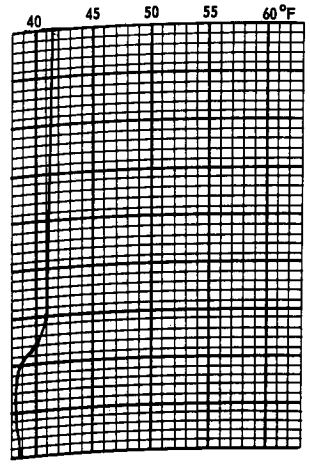

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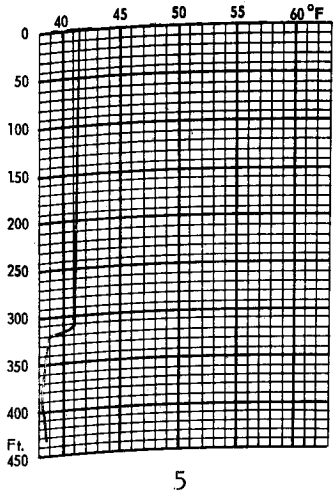

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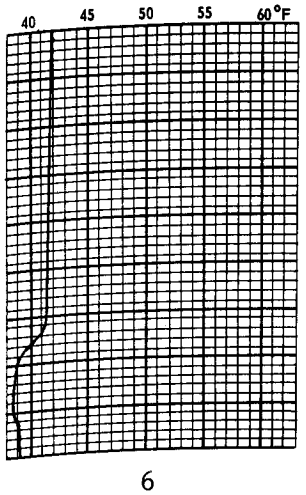

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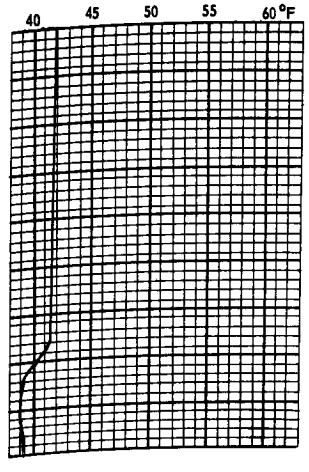

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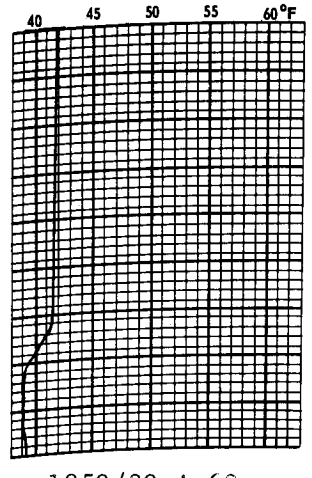

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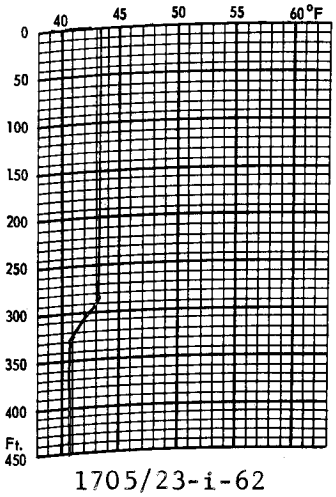

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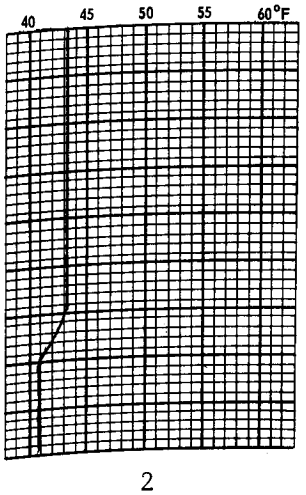

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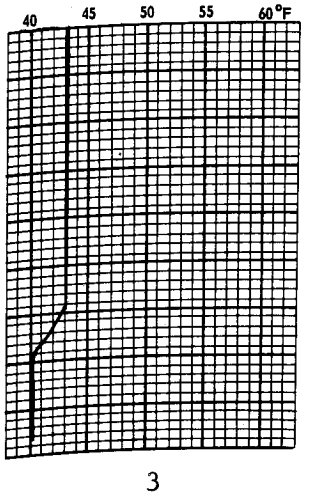

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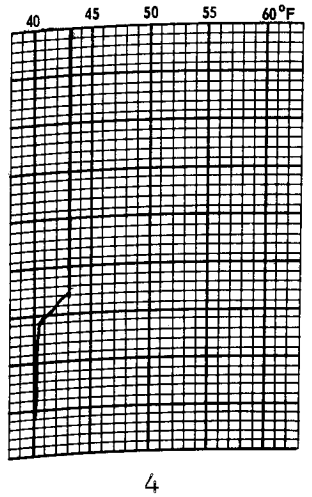

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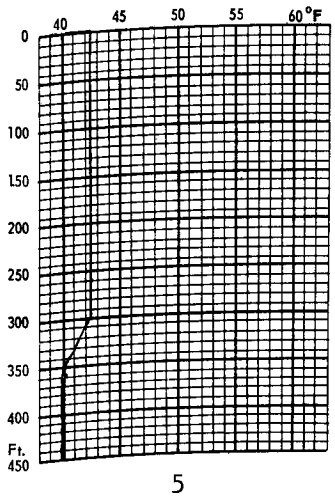

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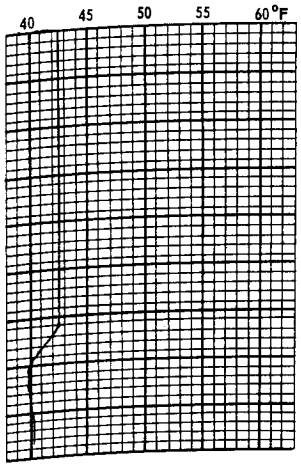

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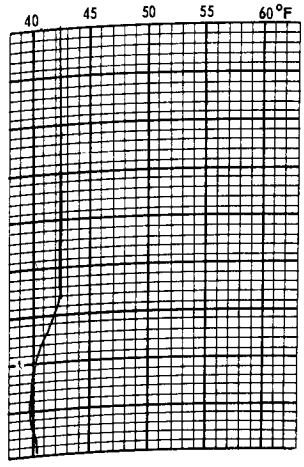

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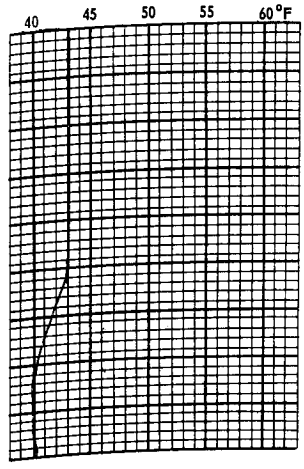

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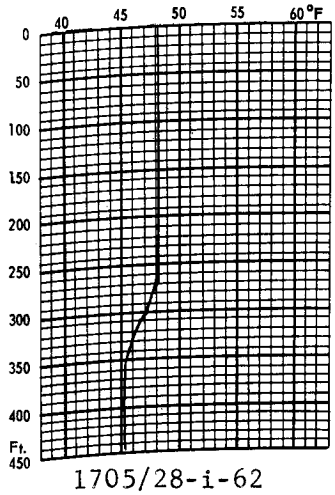

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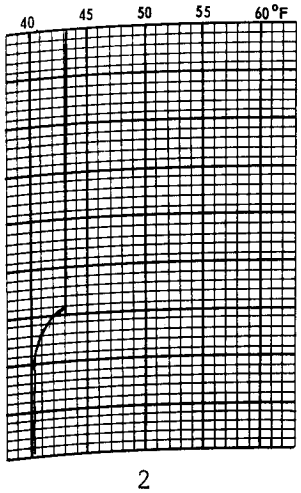

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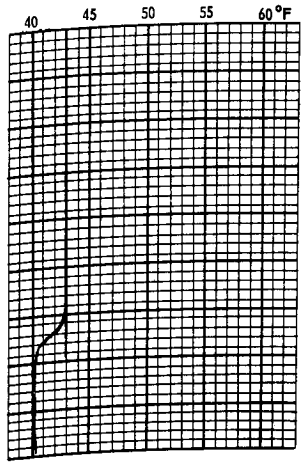

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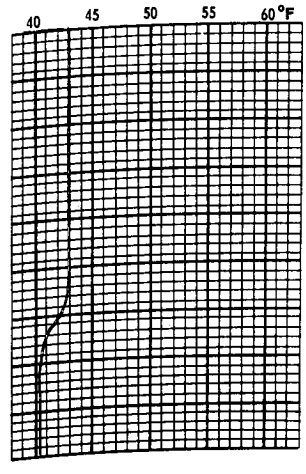

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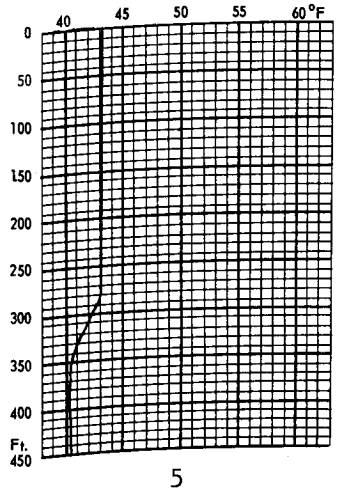

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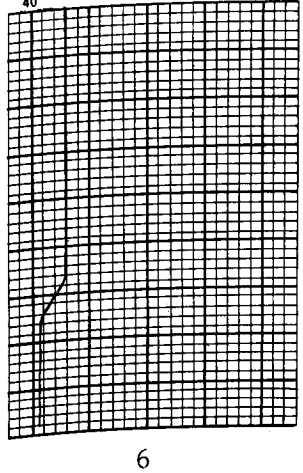

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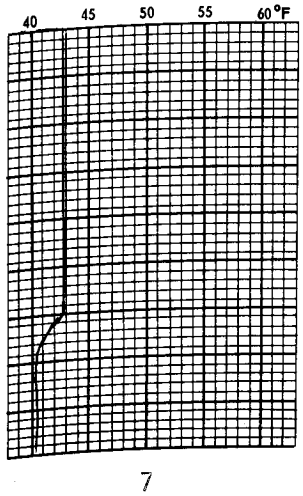

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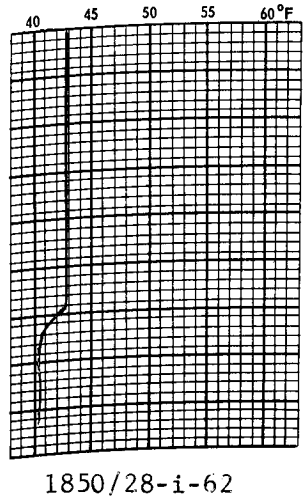

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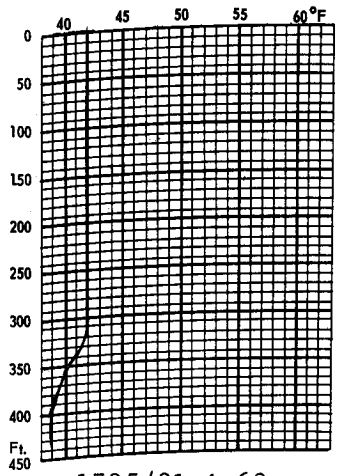

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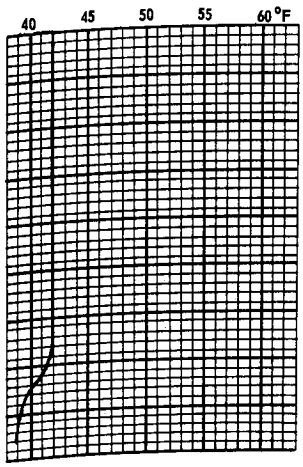

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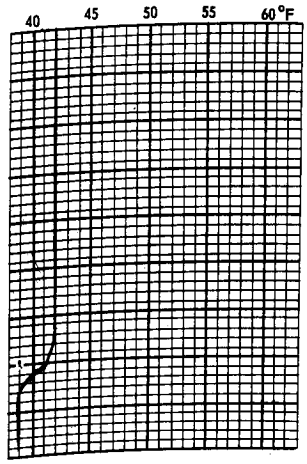

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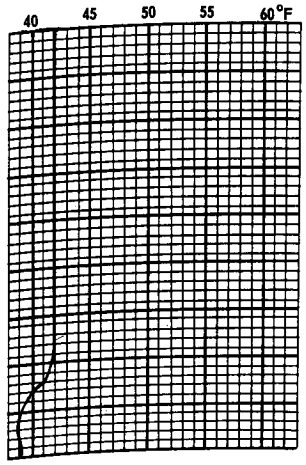

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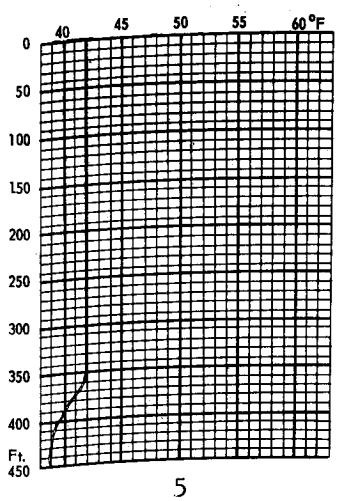

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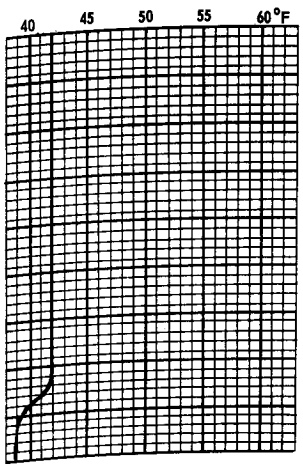

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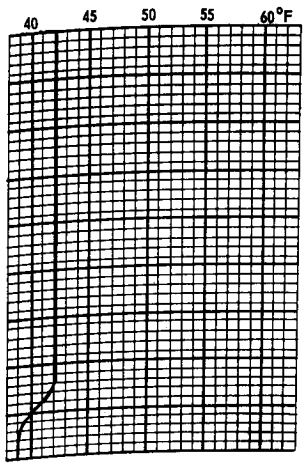

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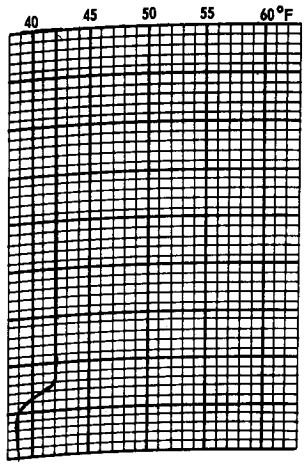

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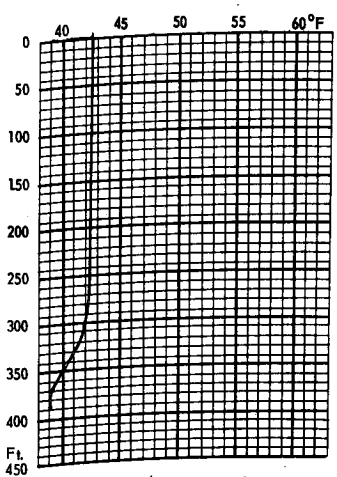

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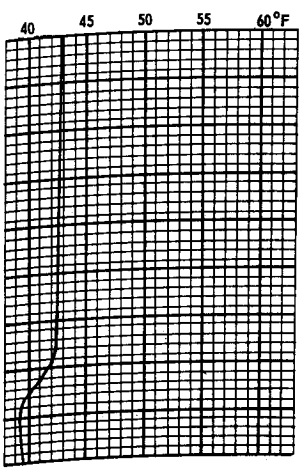

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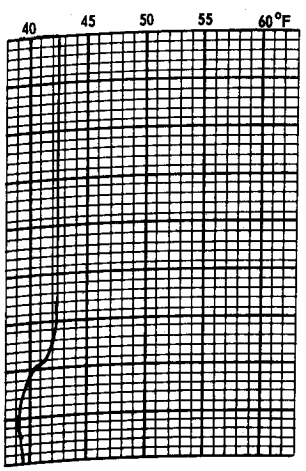

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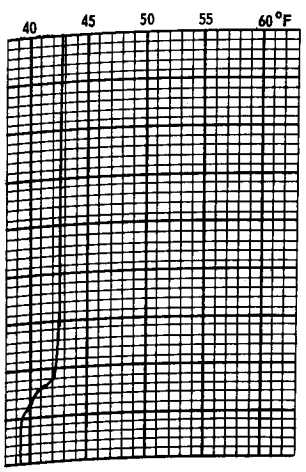

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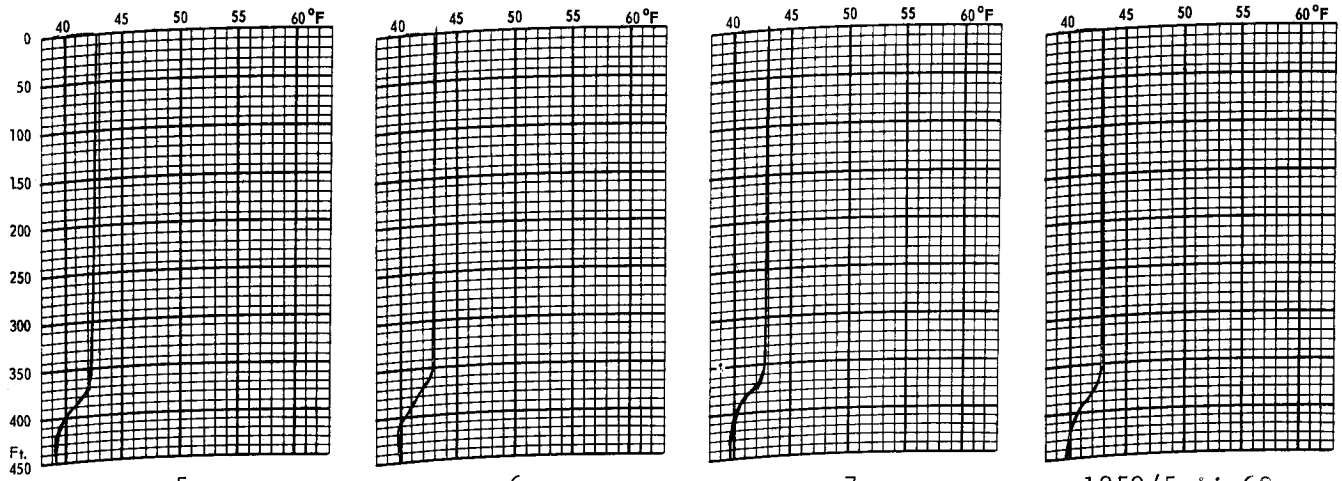

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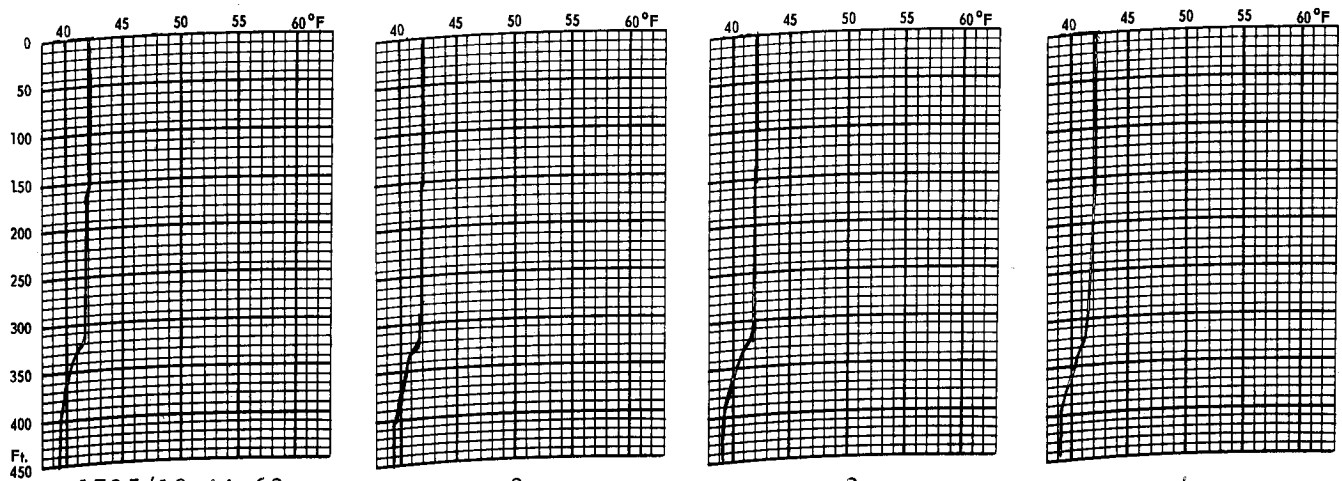

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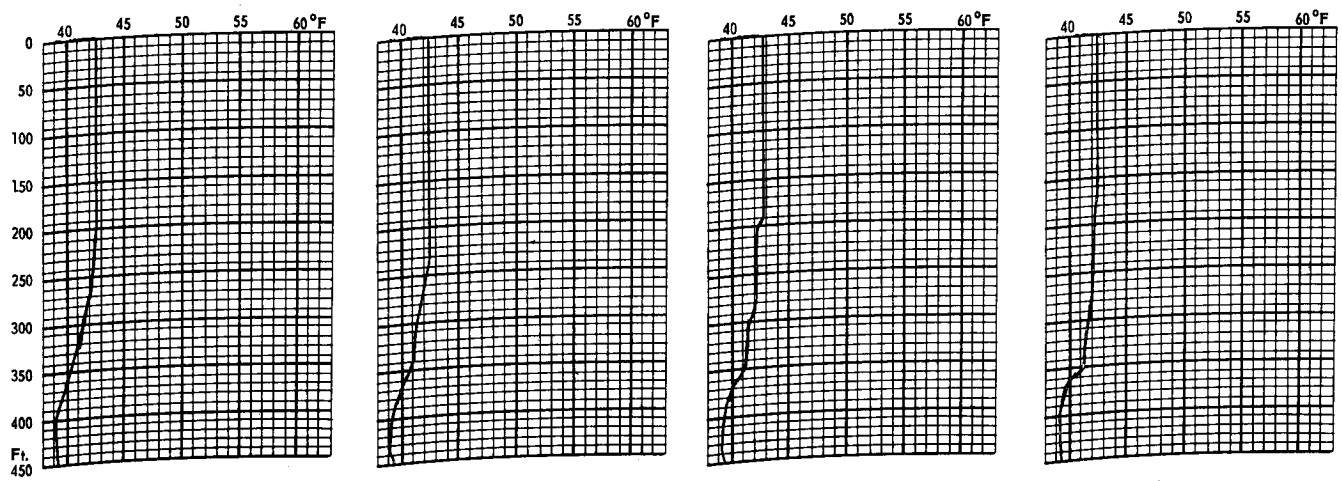

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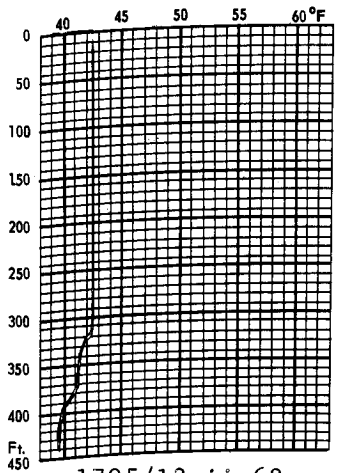

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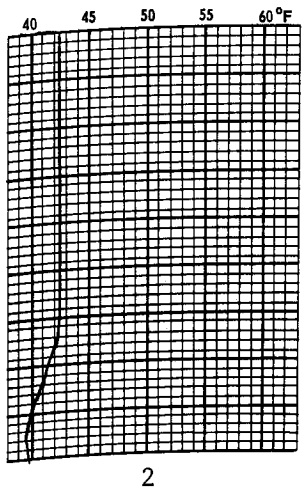

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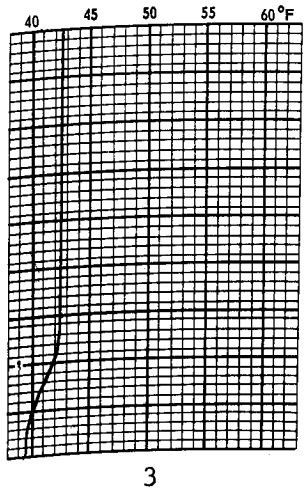

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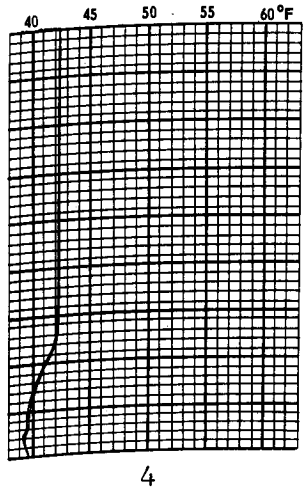

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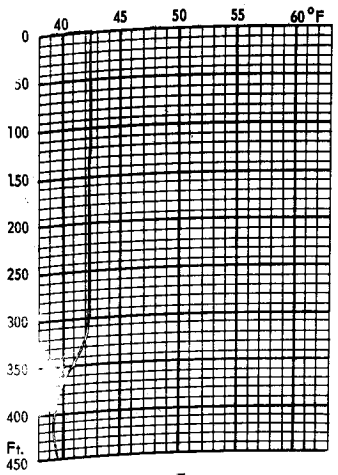

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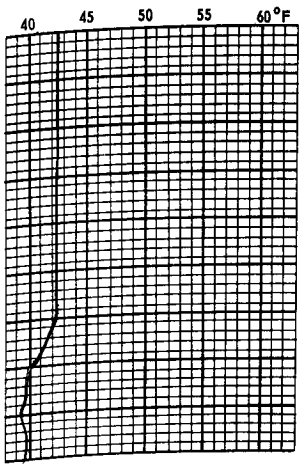

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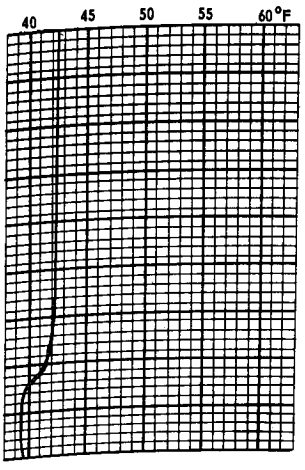

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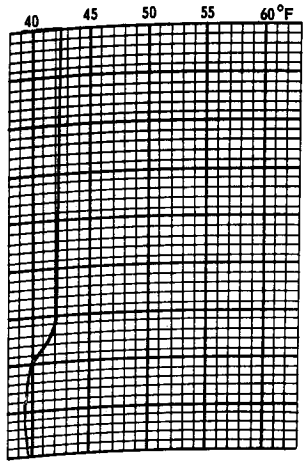

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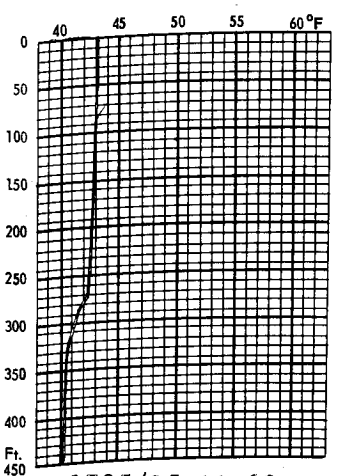

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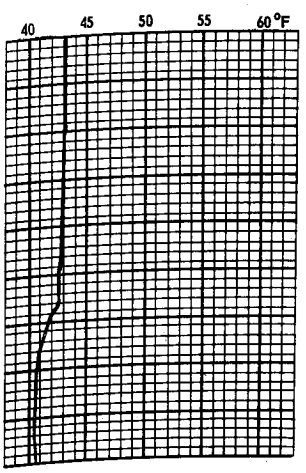

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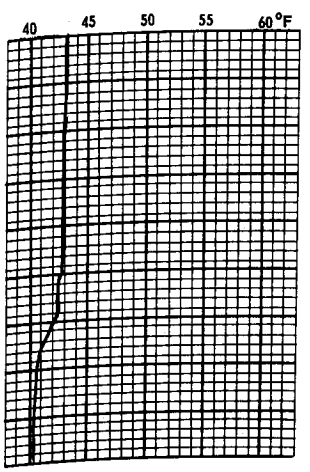

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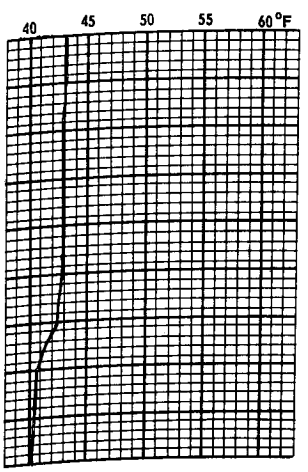

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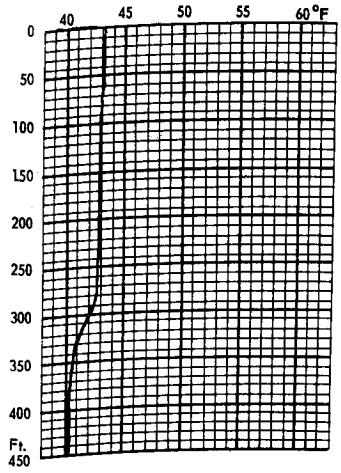

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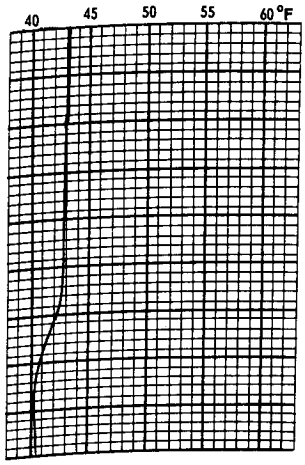

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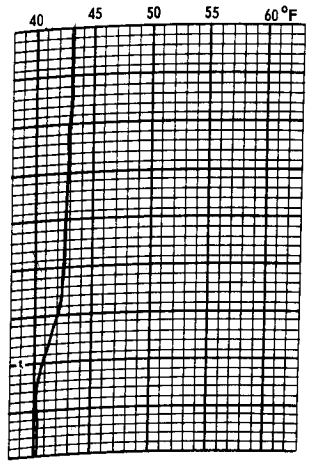

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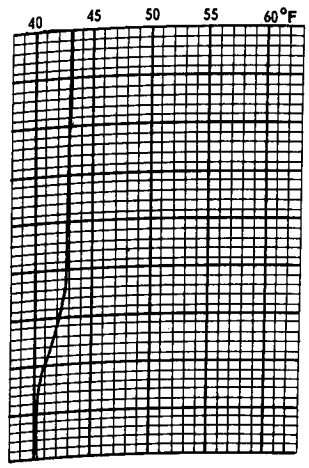

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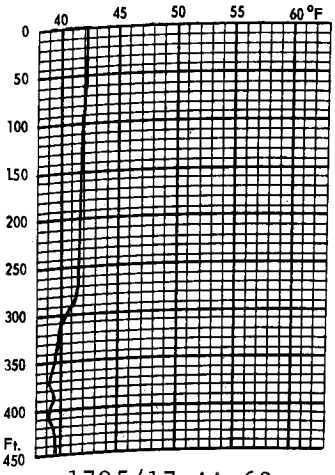

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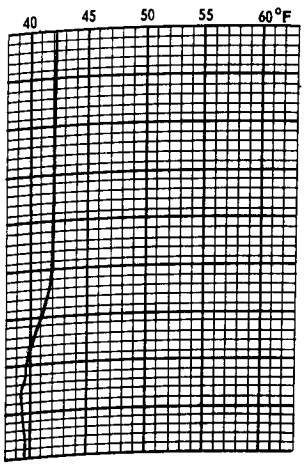

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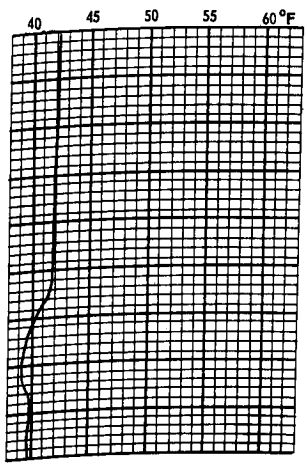

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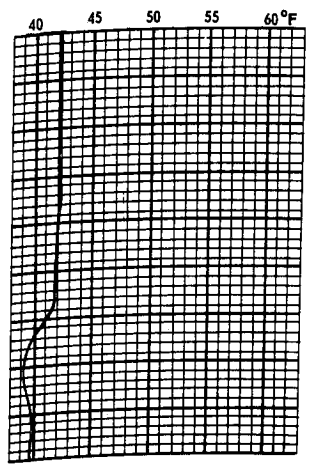

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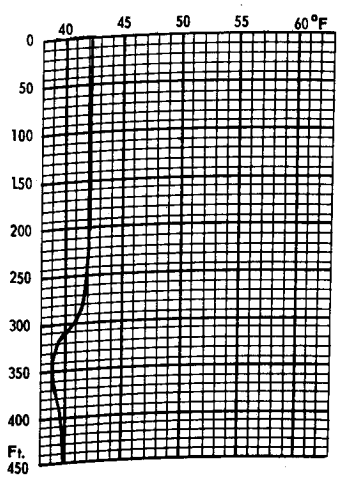

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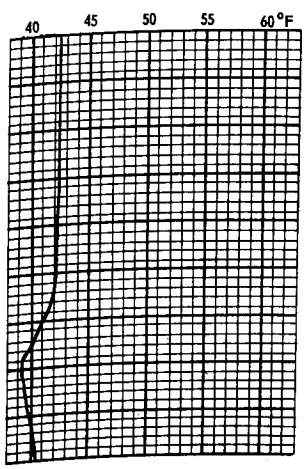

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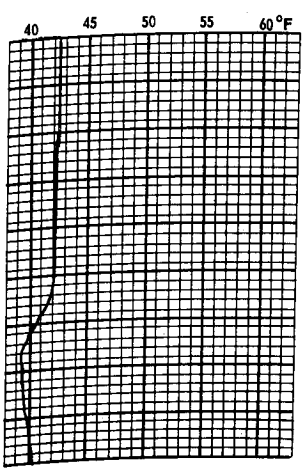

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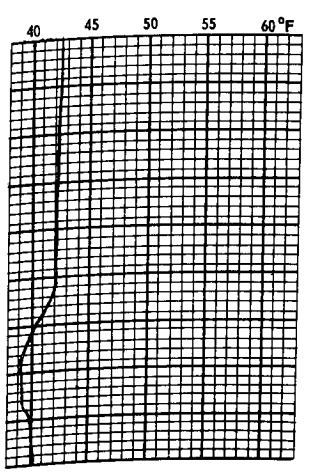

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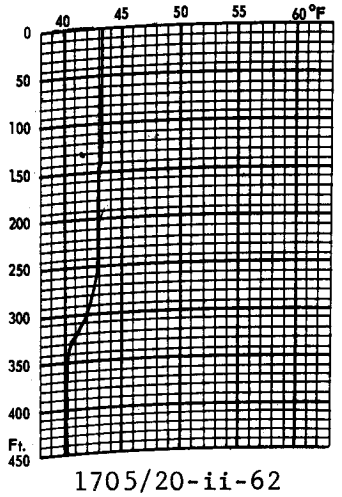

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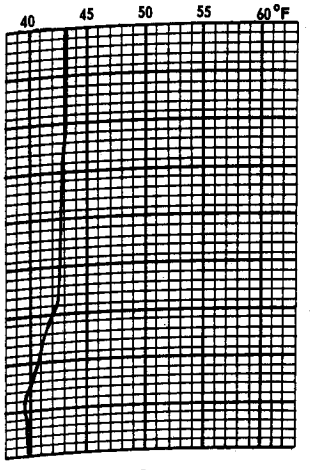

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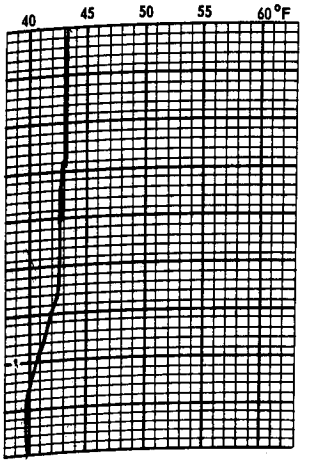

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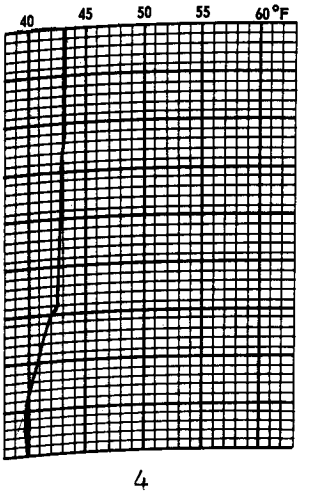

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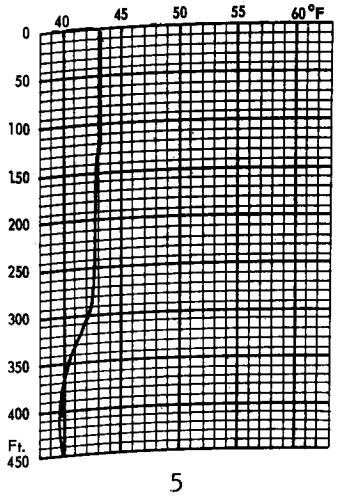

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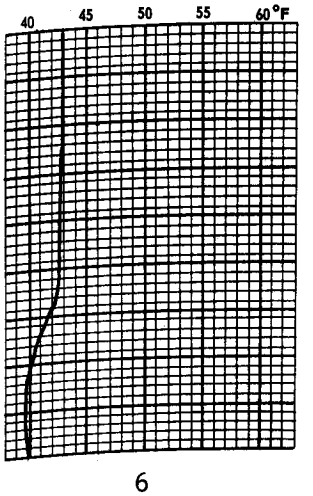

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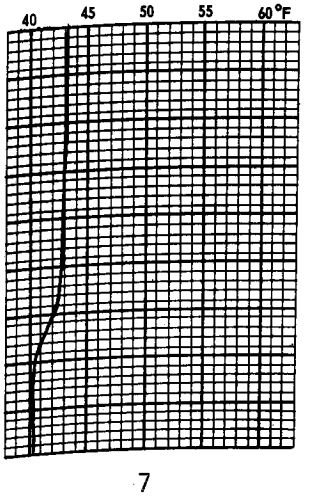

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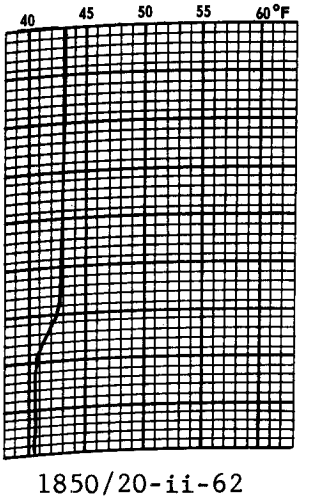
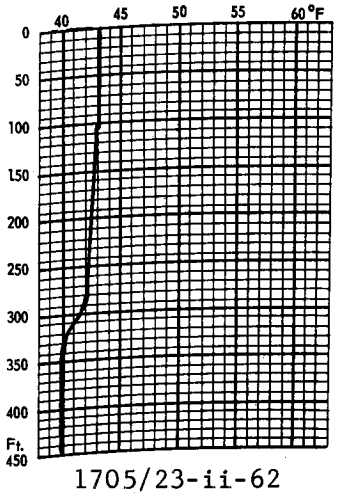
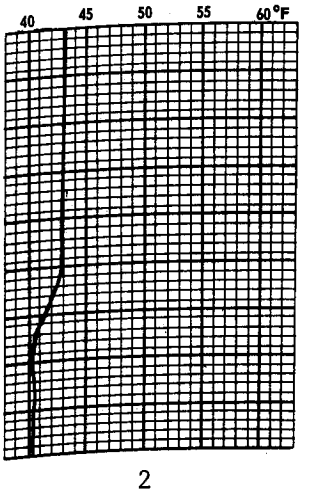


1850/20-ii-62
Grid OS



1705/23-ii-62



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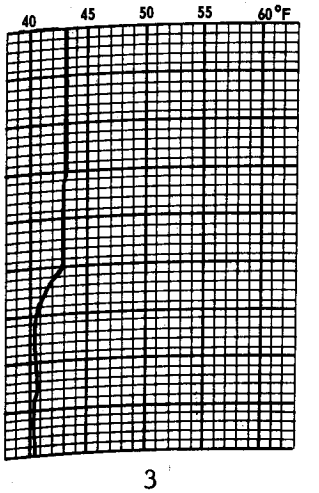

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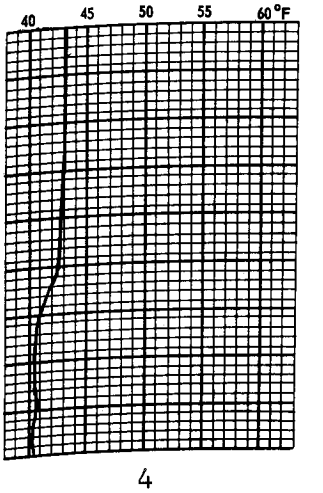

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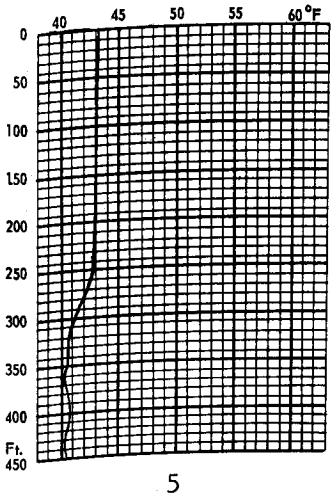

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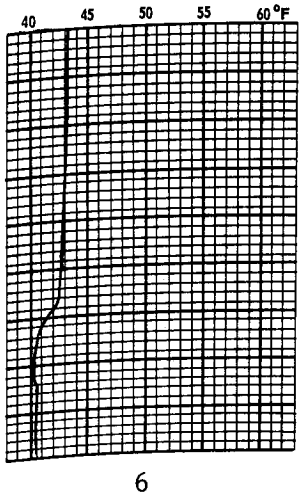

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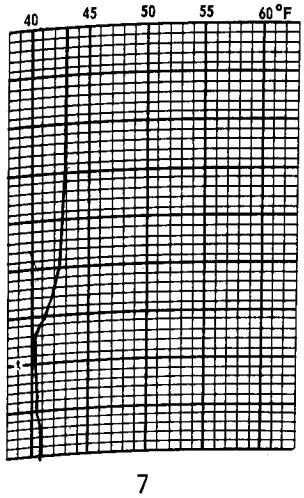

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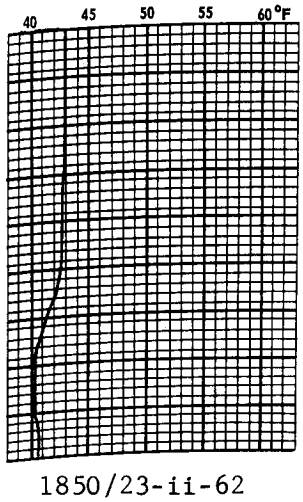
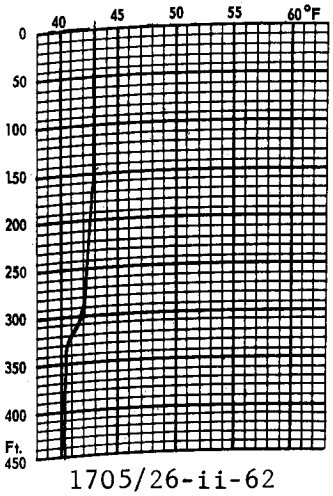
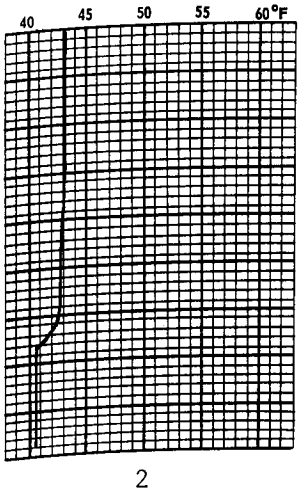


1850/23-ii-62
Grid OS



1705/26-ii-62



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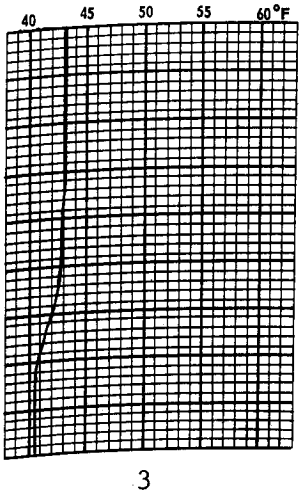

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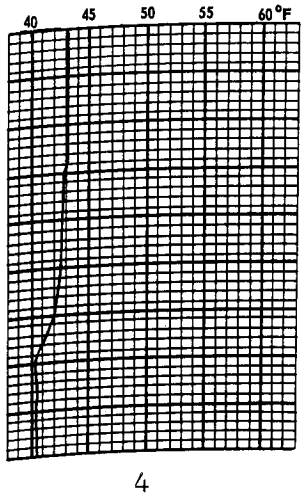

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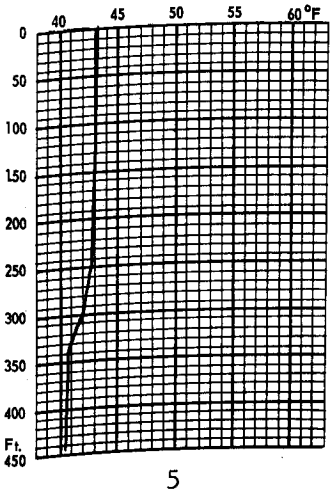

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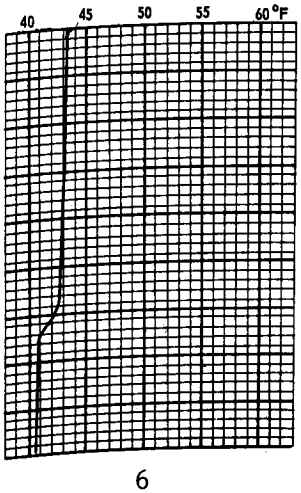

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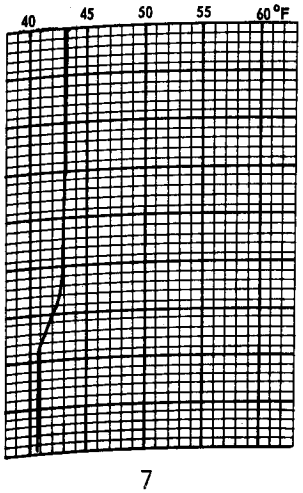

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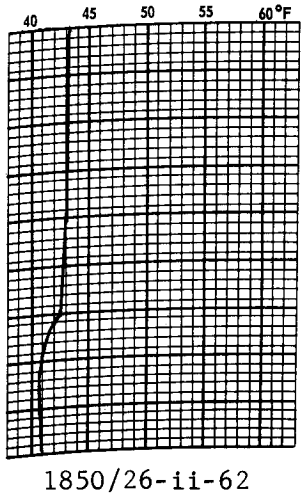
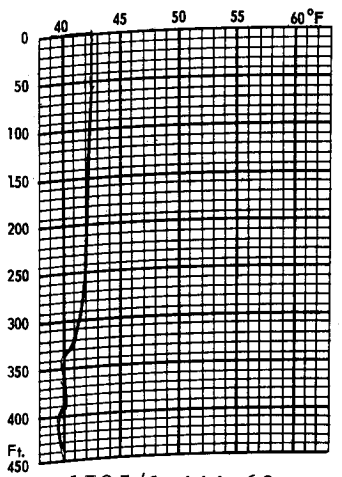
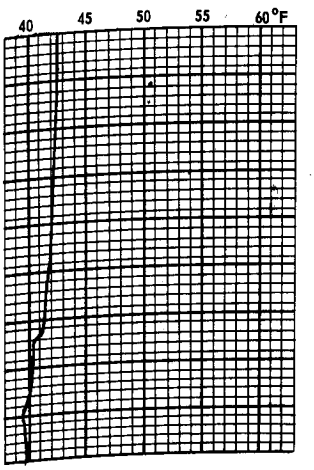


1850/26-ii-62
Grid JJ



1705/1-iii-62



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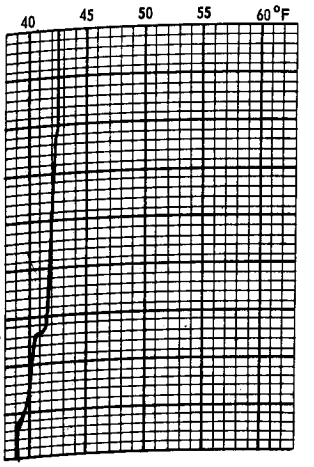

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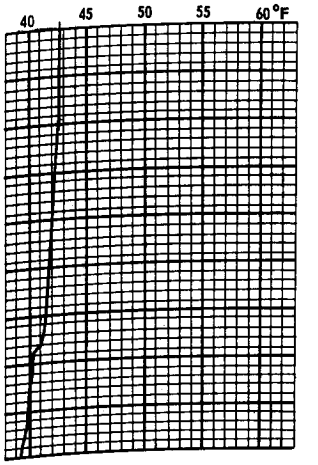

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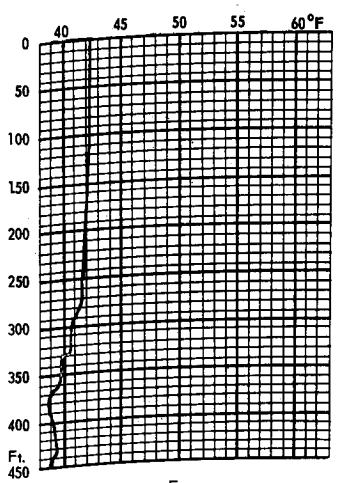

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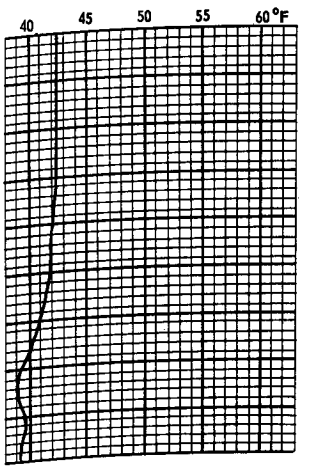

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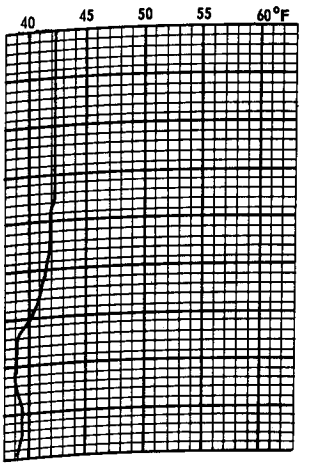

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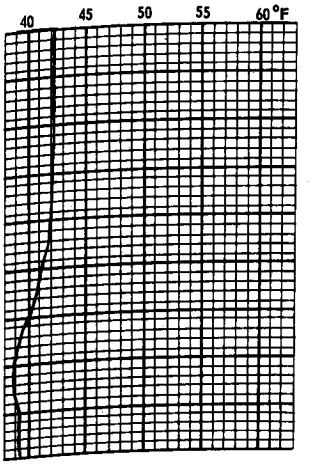
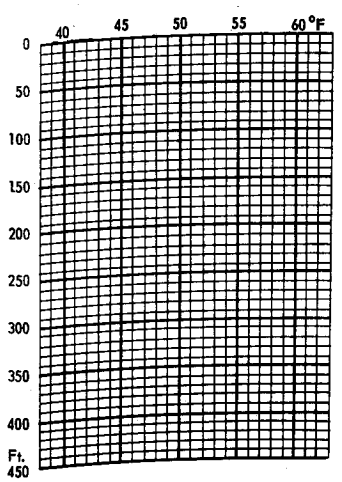
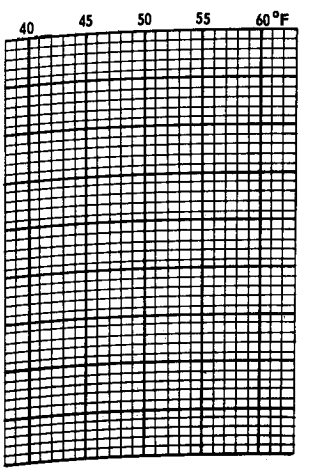
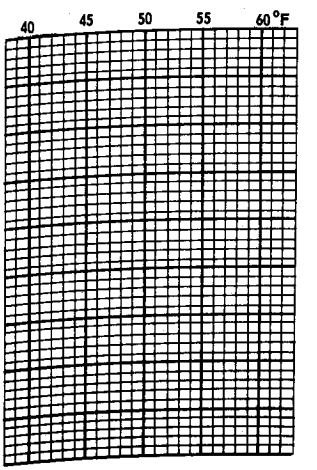
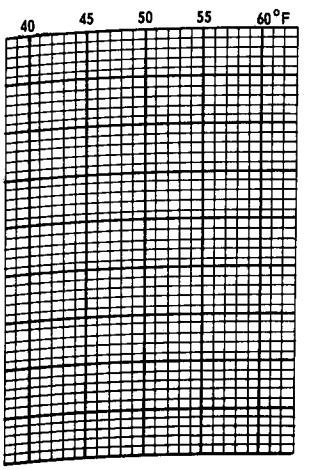


1850/1-iii-62
Grid OS

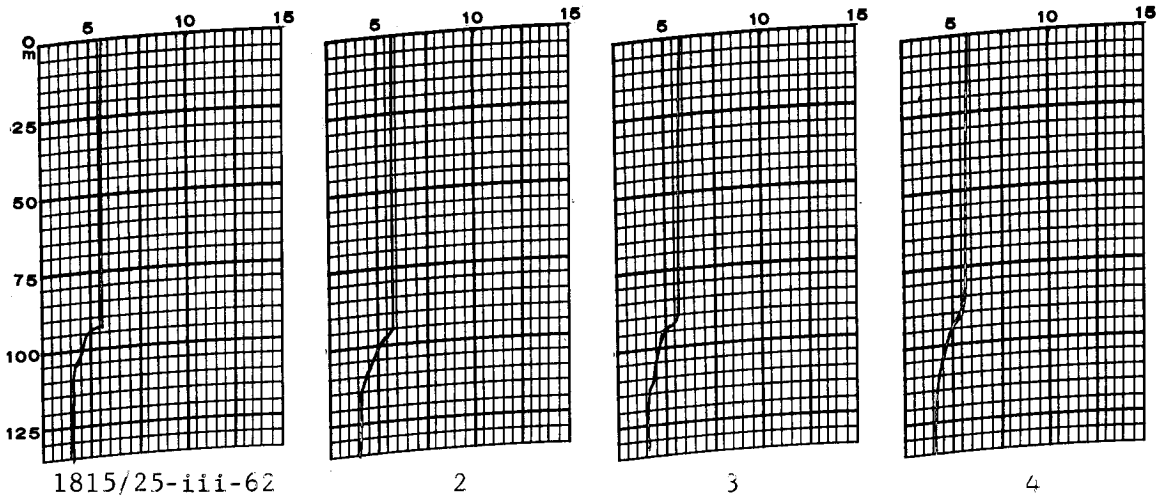






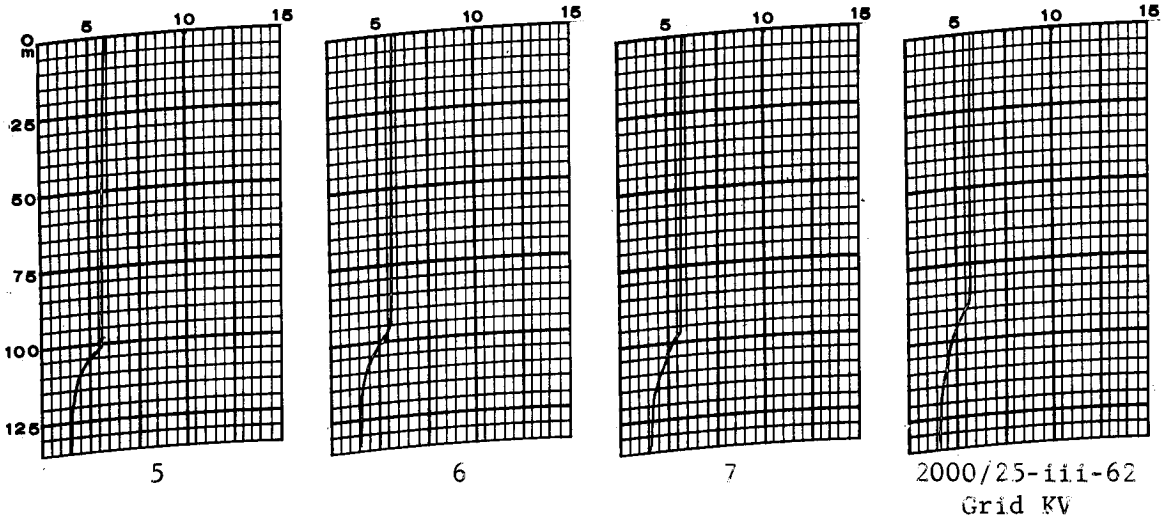


Survey P-62-1, C.C.G.S. "St. Catharines", 15-minute intervals



1815/25-iii-62 2 3 4

3 knots speed



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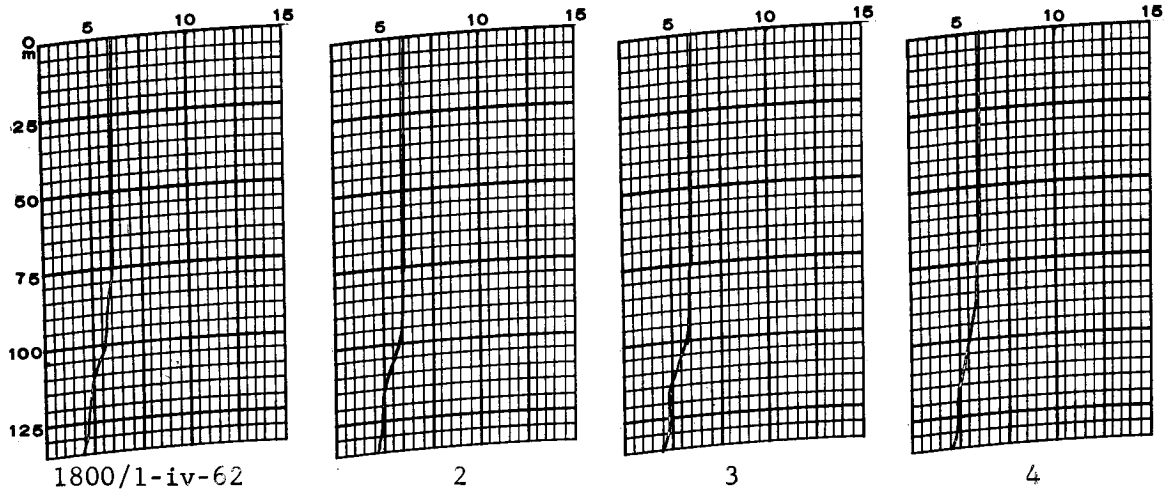
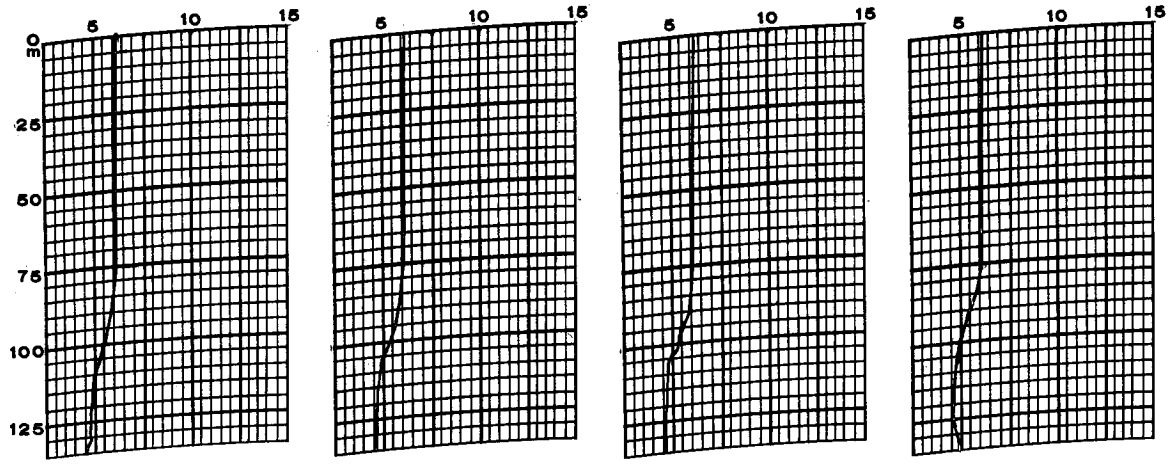
Grid KV



1800/1-iv-62 2 3 4



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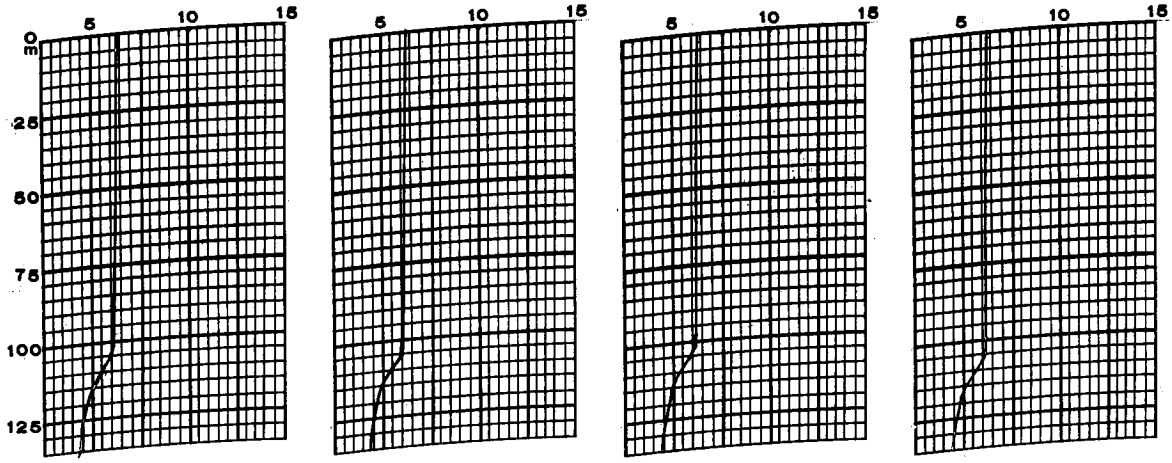
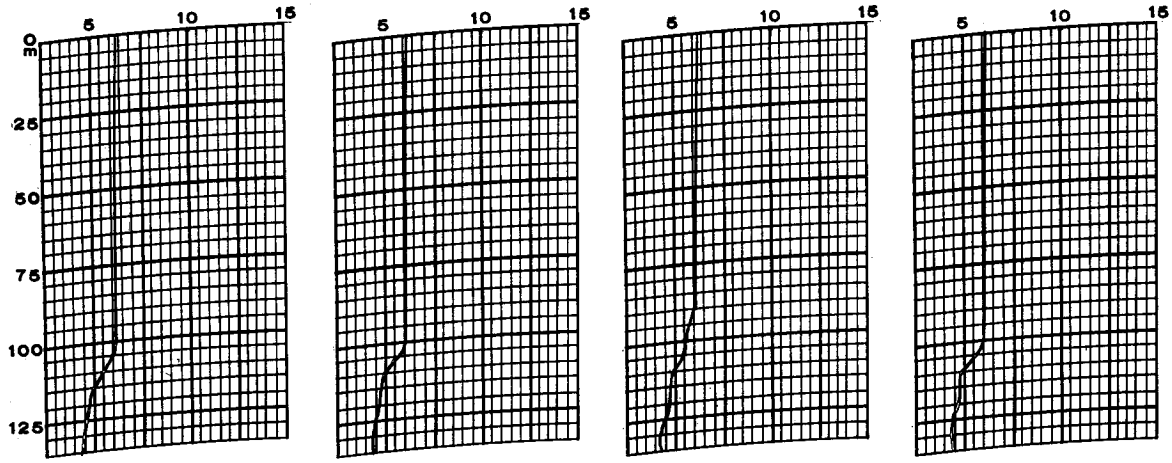
Grid OS



1800/5-iv-62 2 3 4



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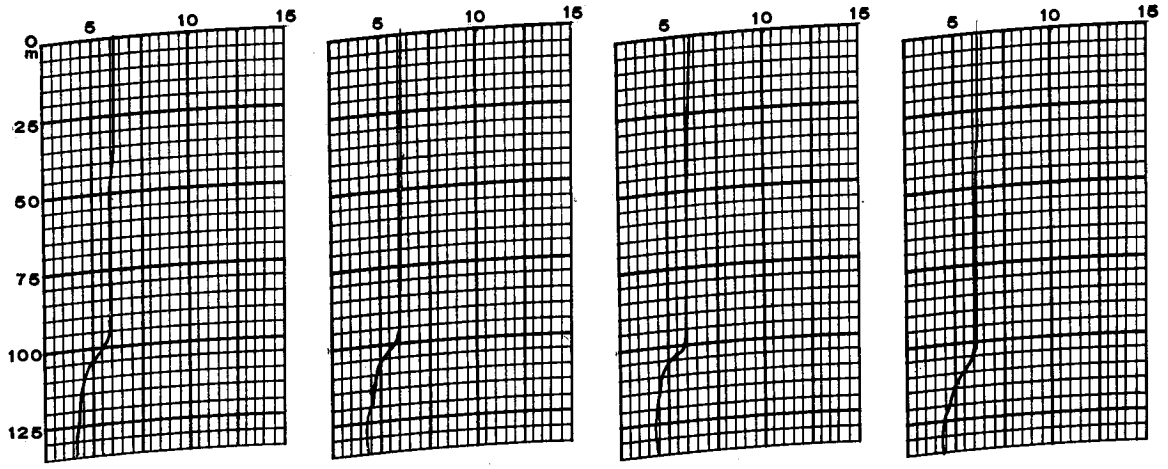
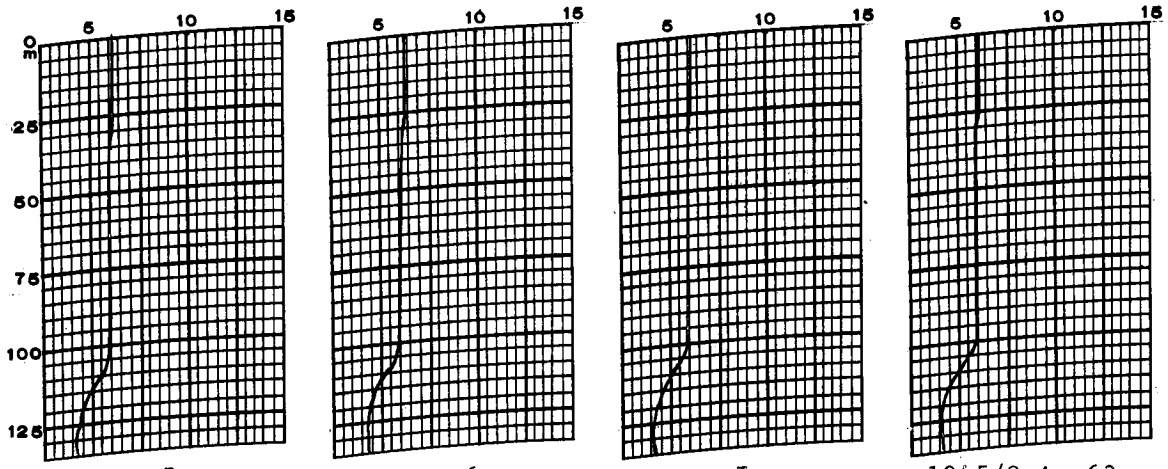
Grid KS



1800/8-iv-62 2 3 4



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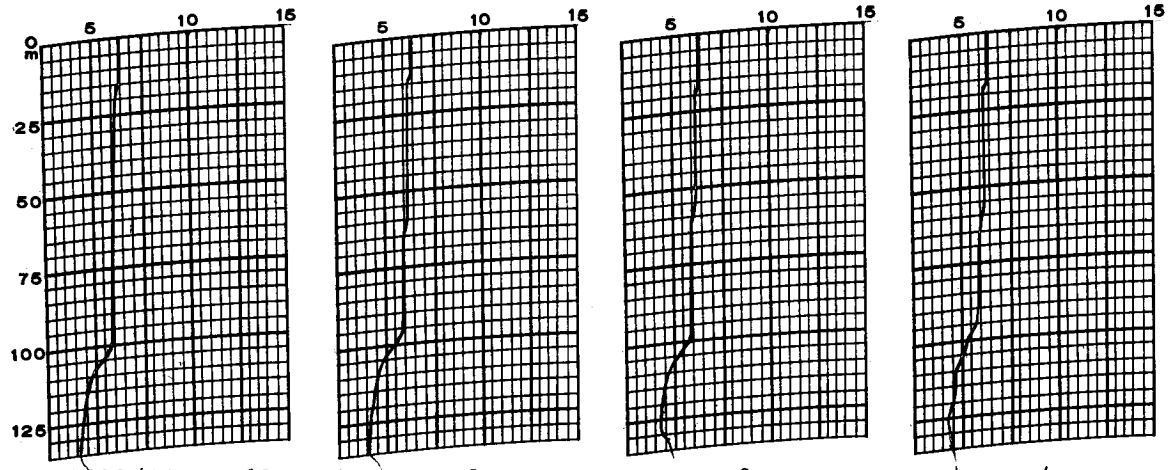
Grid OS



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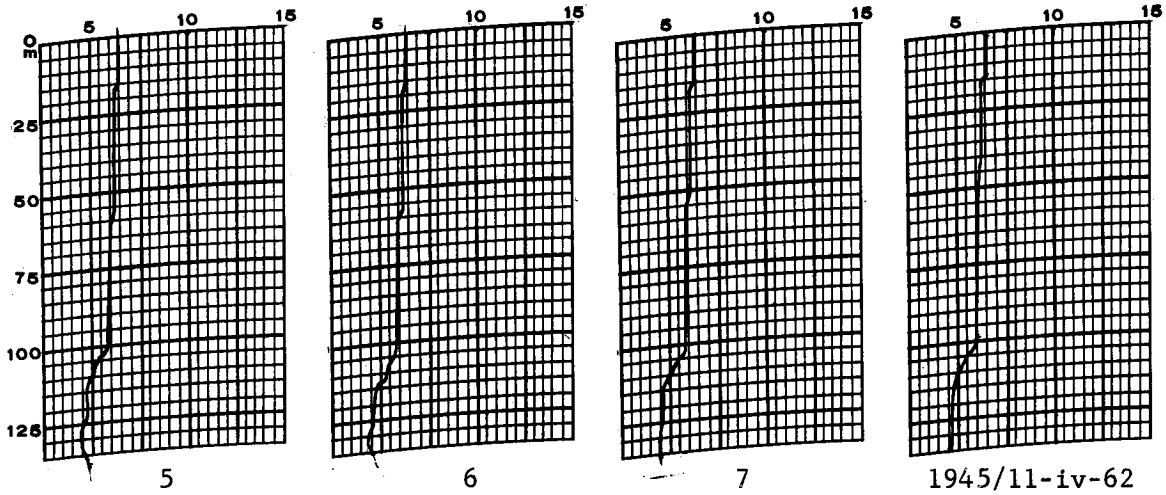

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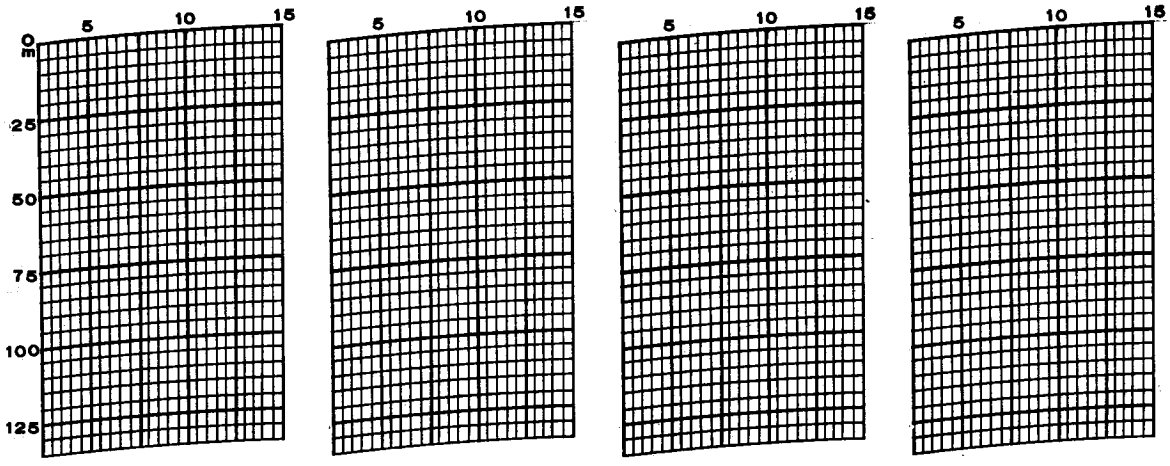
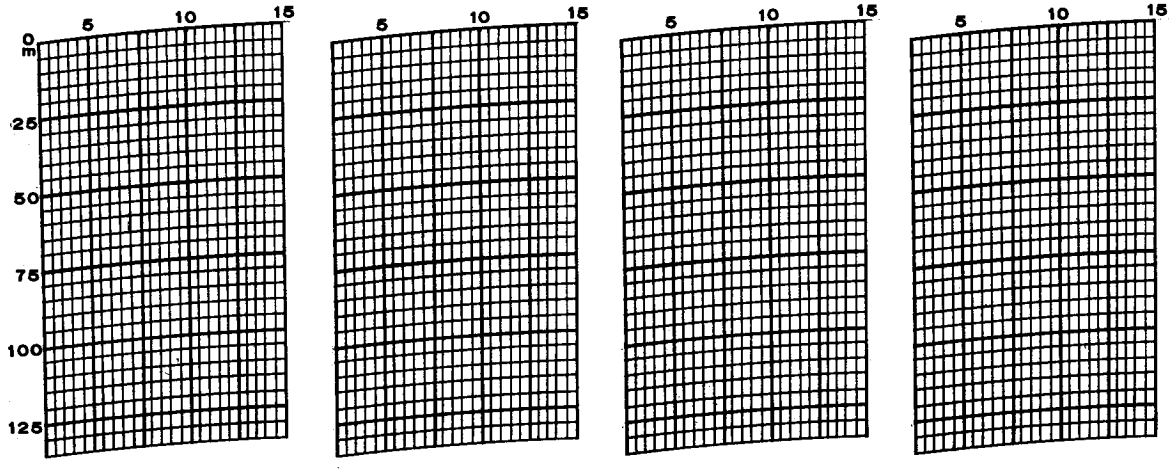
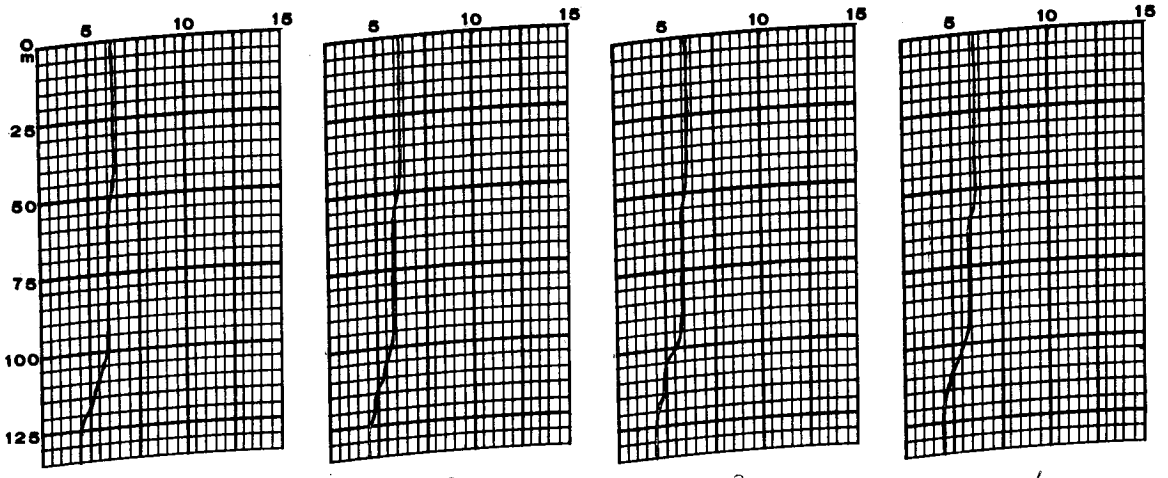
Grid OS

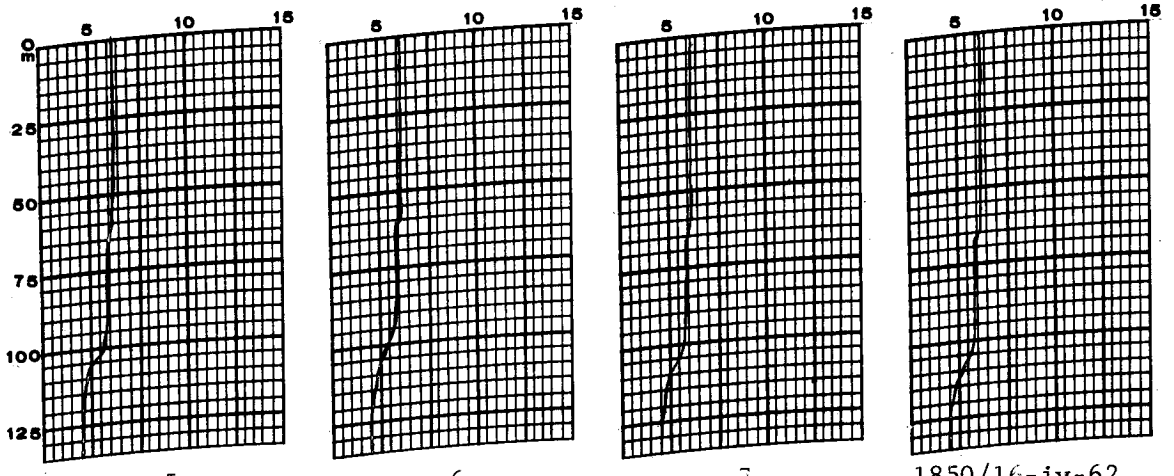




Patrol No. 51, C.C.G.S. "Stonetown", 15-minute intervals



1705/16-iv-62 2 3 4



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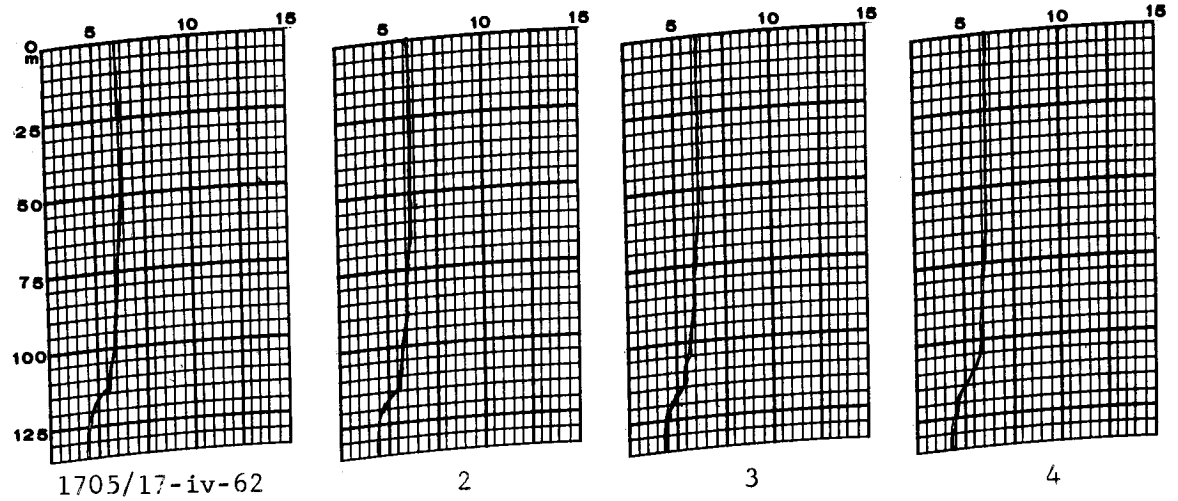
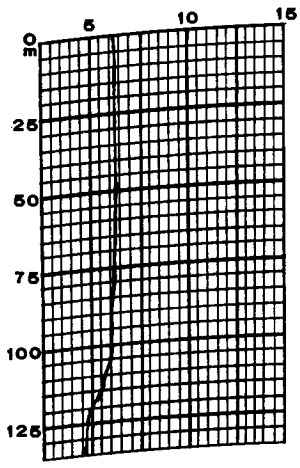
Grid OJ



1705/17-iv-62 2 3 4



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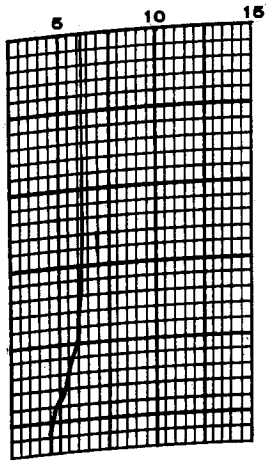

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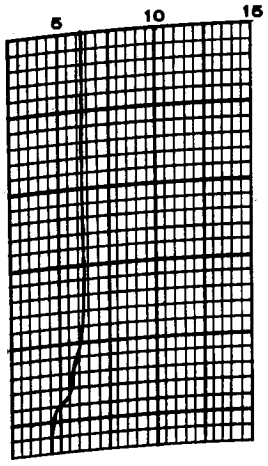

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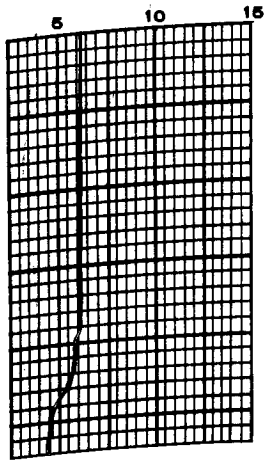
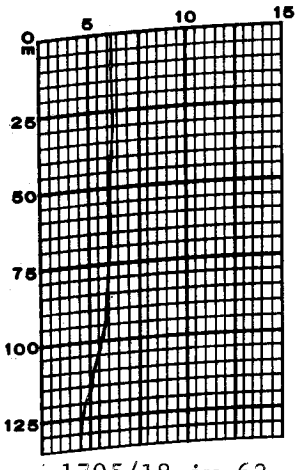
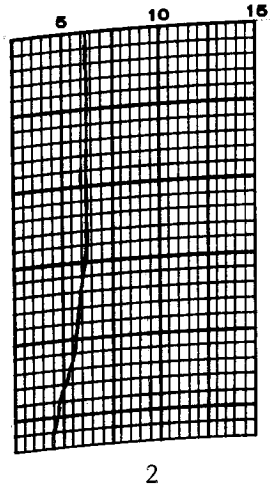


1850/17-iv-62
Grid OJ



1705/18-iv-62



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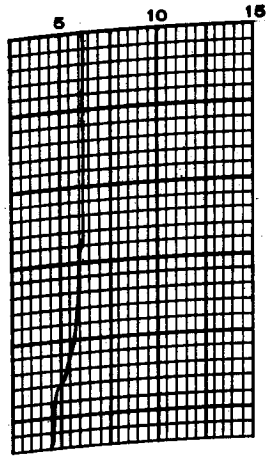

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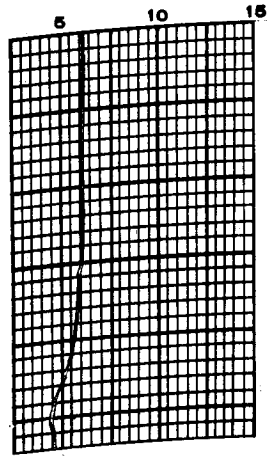

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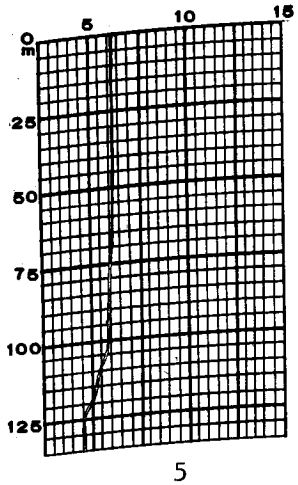

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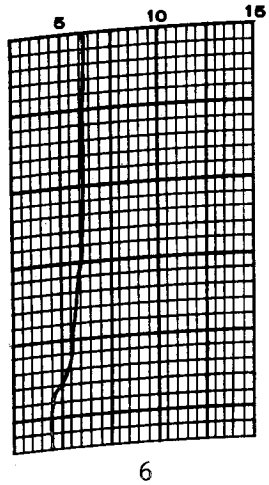

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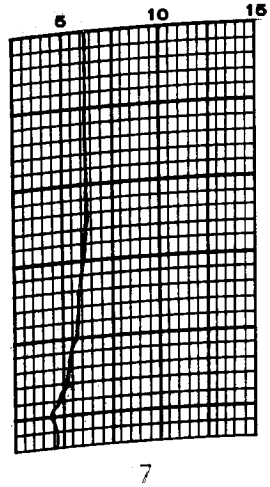

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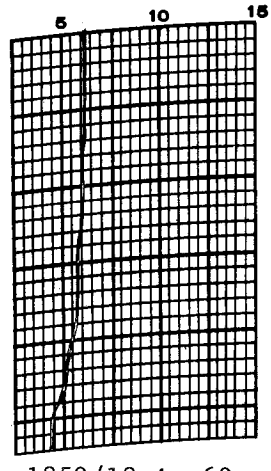

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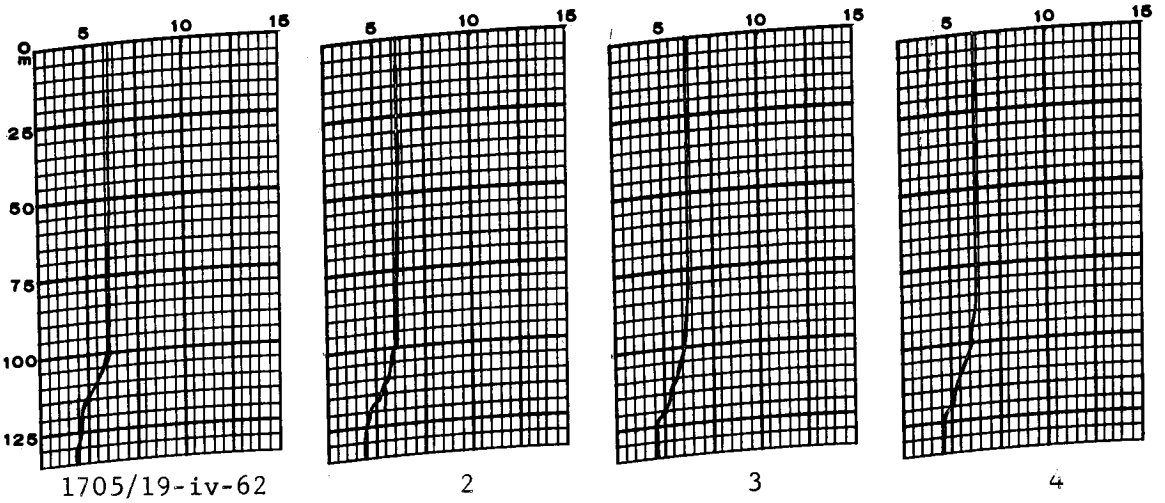
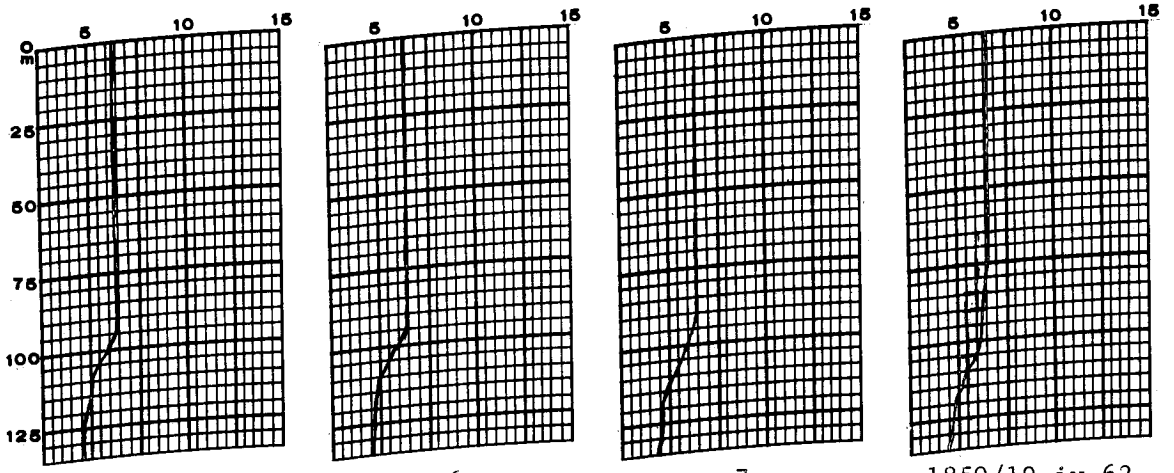


1705/19-iv-62 2 3 4



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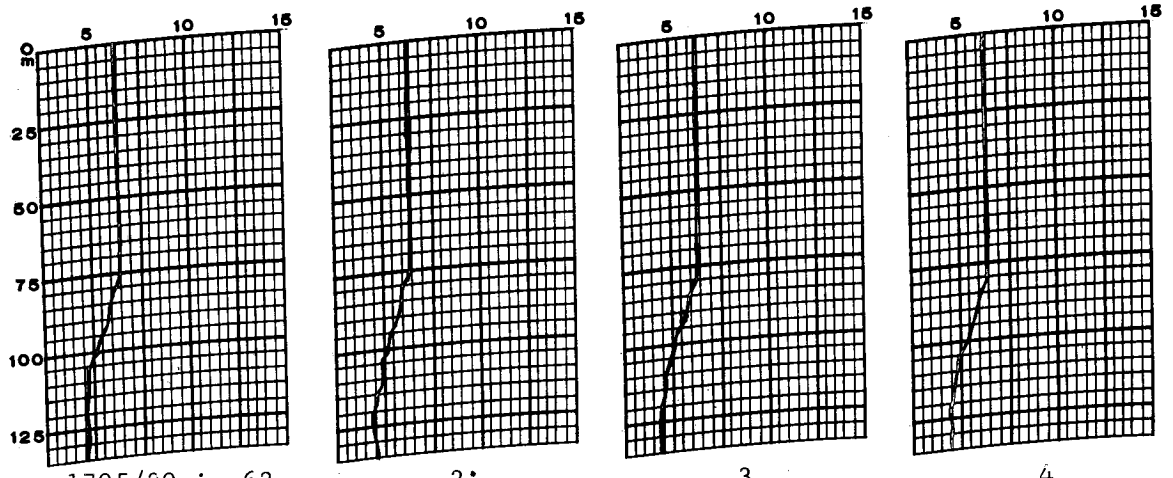

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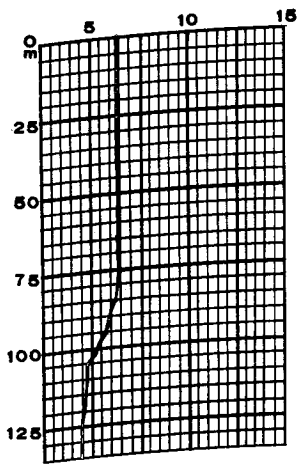

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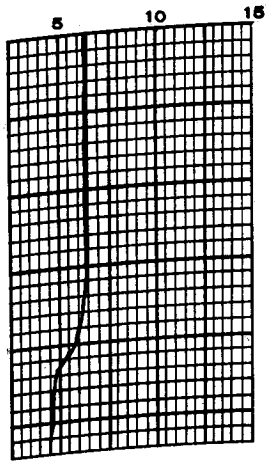

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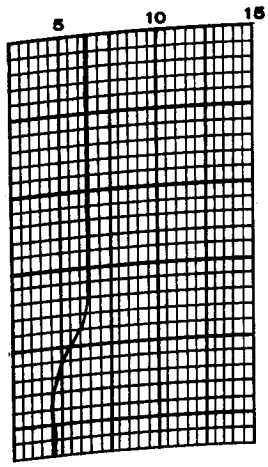

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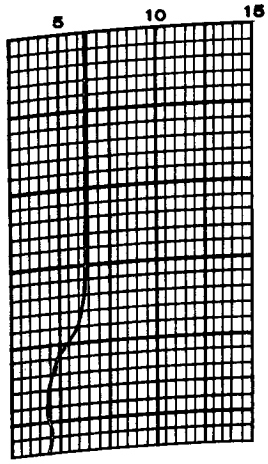

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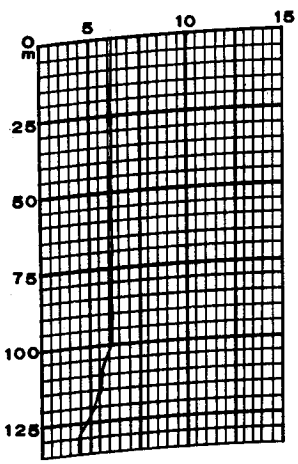

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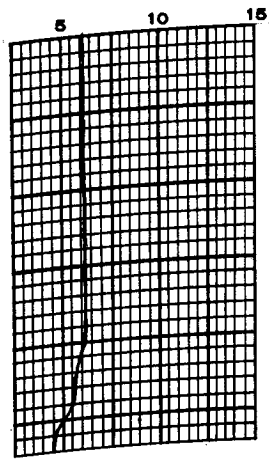

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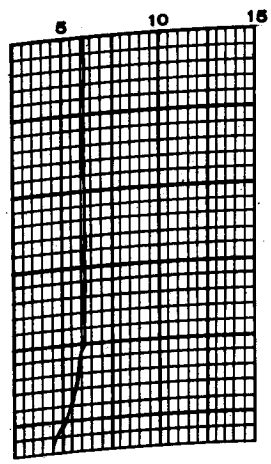

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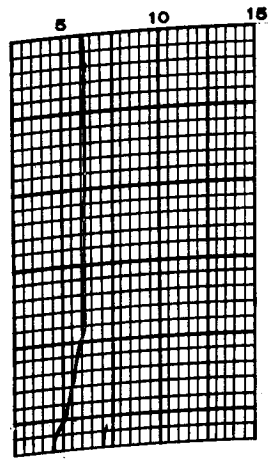

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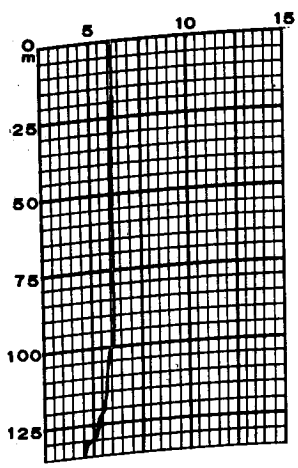

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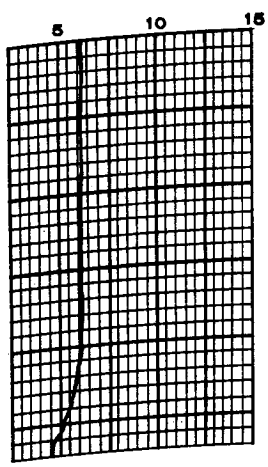

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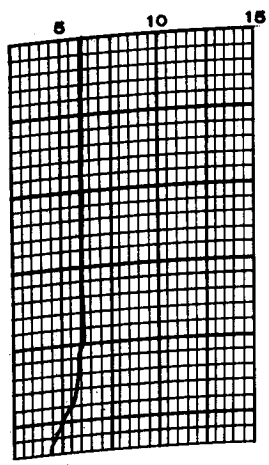

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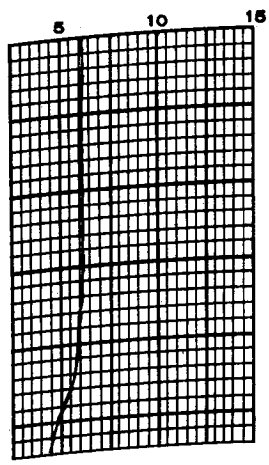

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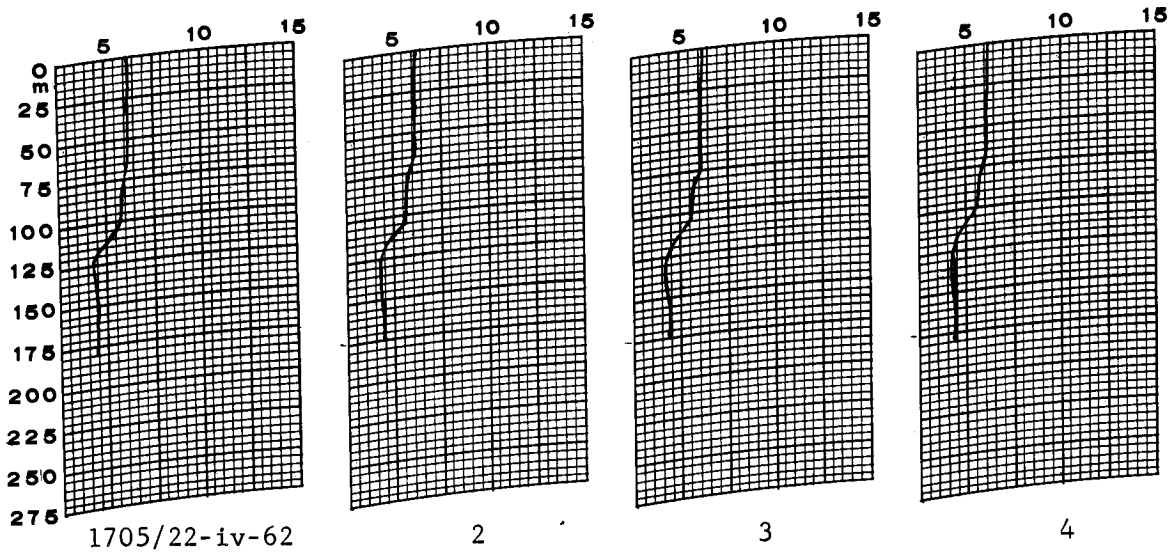
Grid OS



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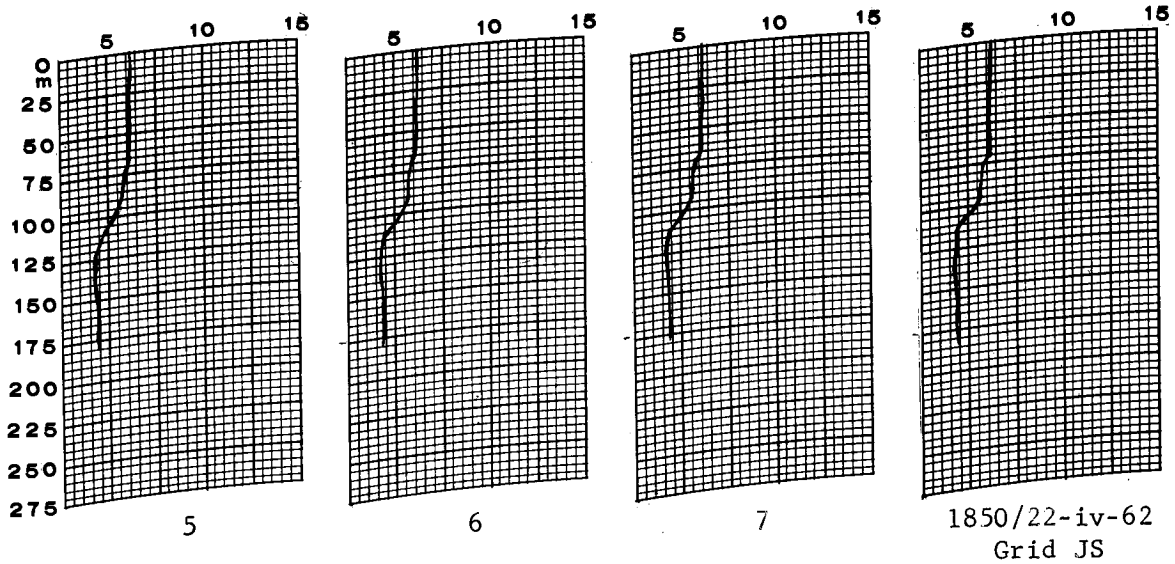

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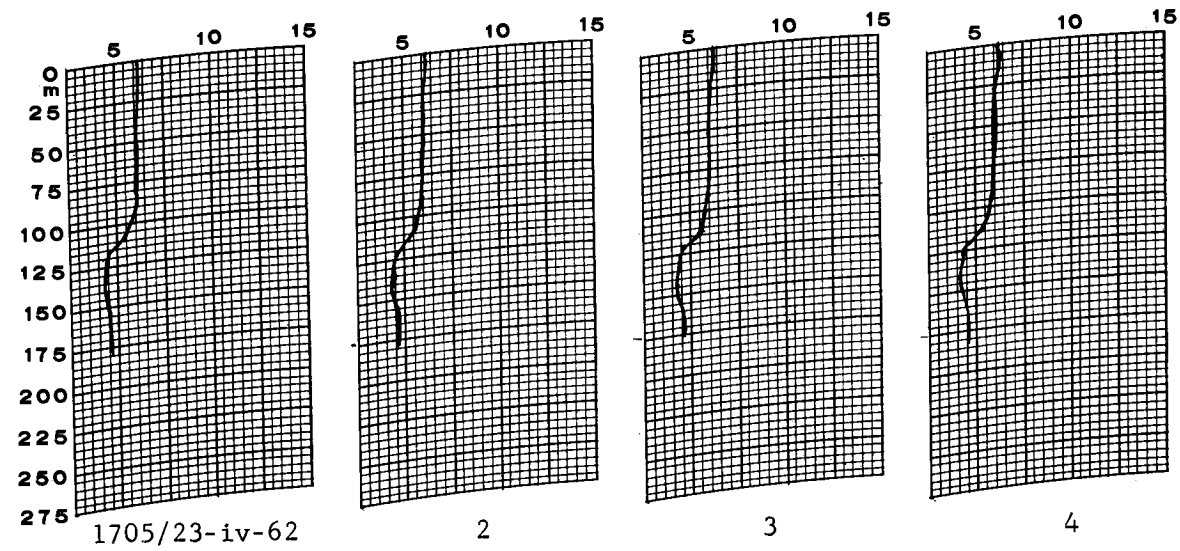
Grid JS



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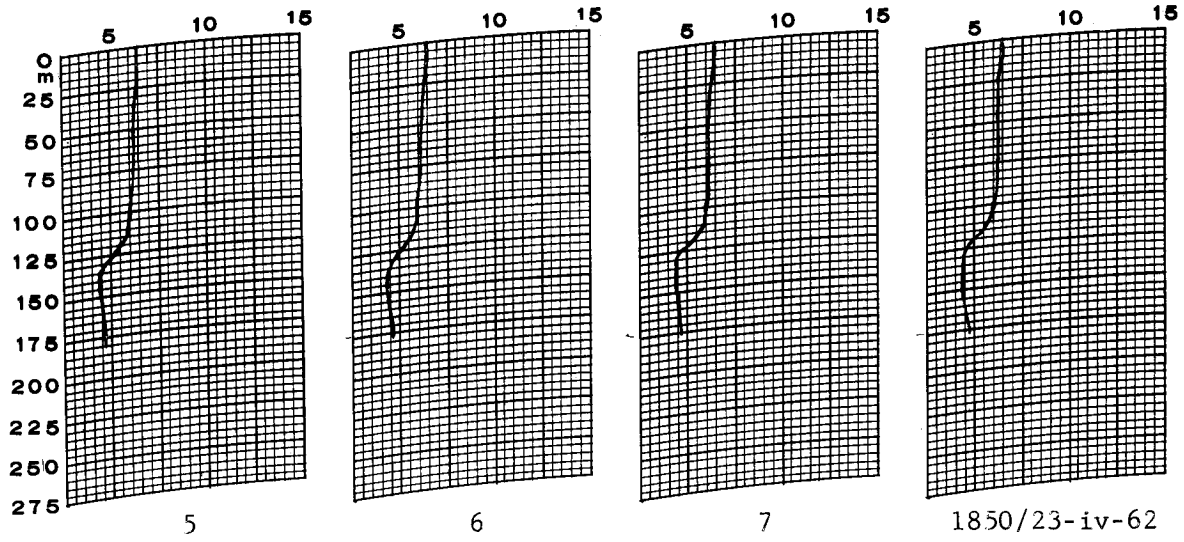

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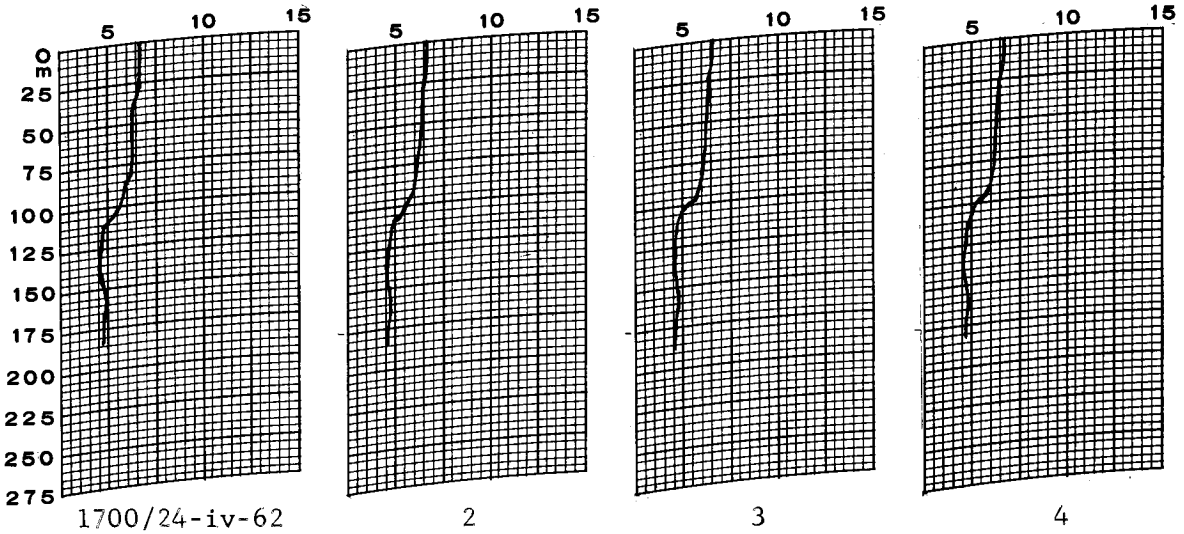

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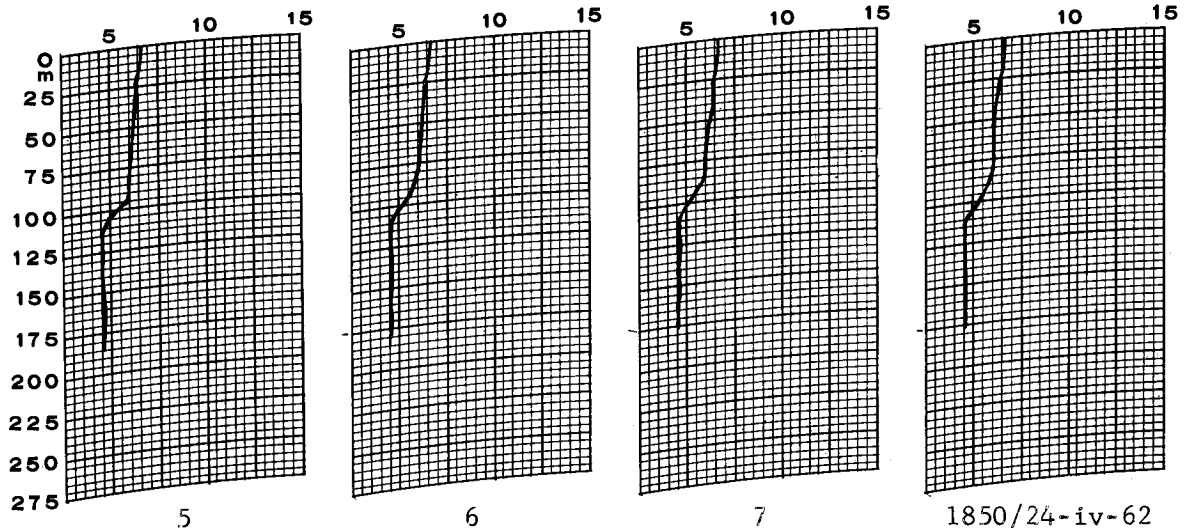

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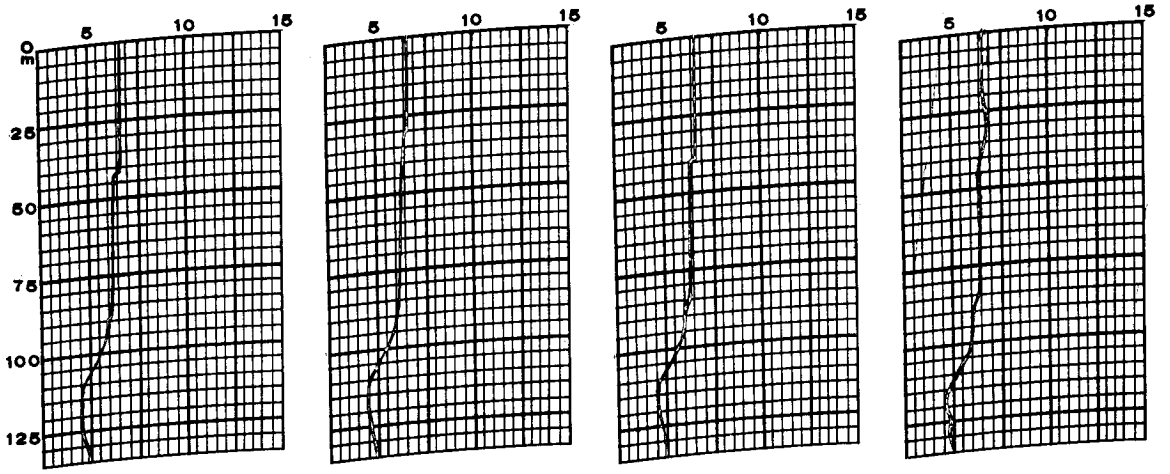

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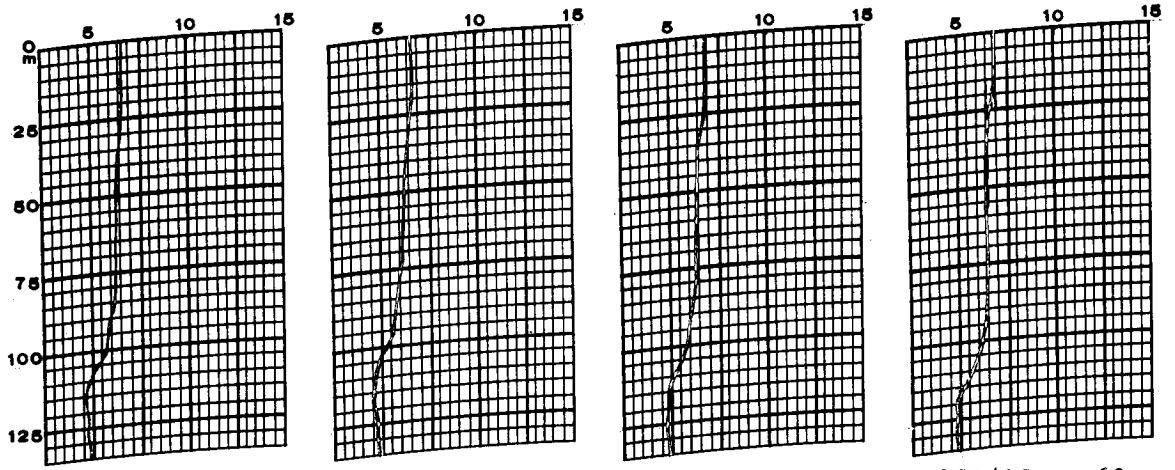

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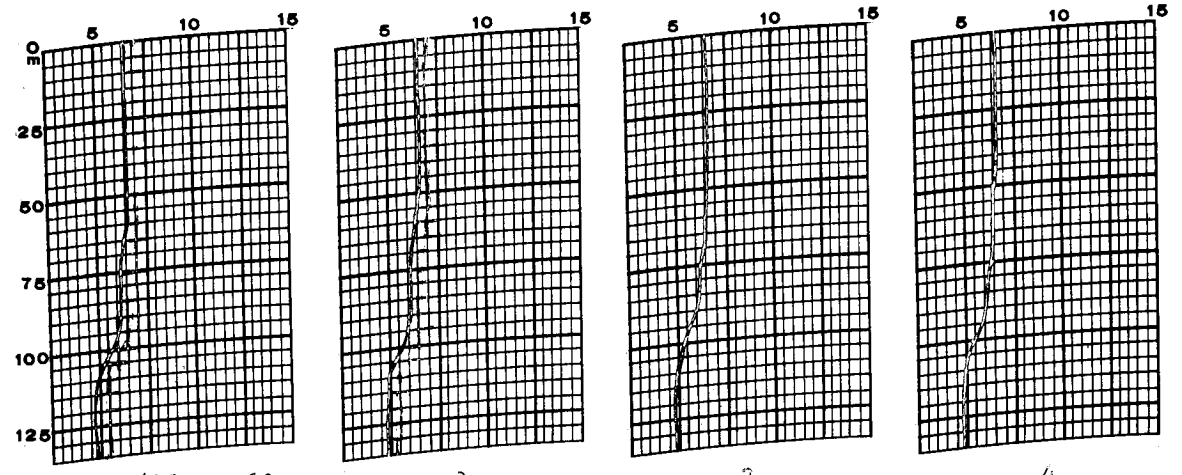
Grid OJ



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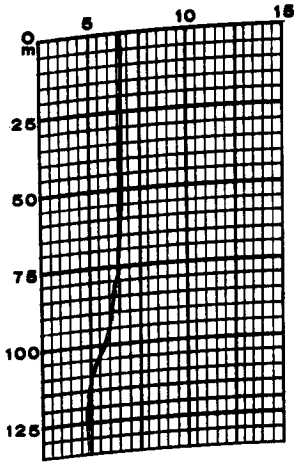

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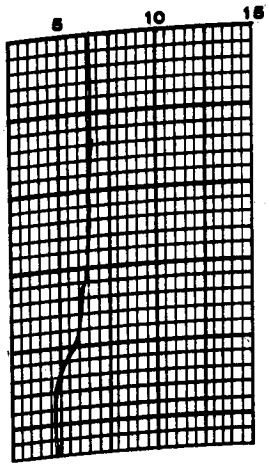

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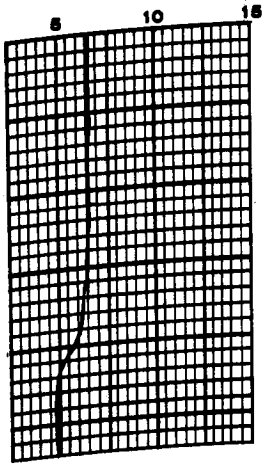

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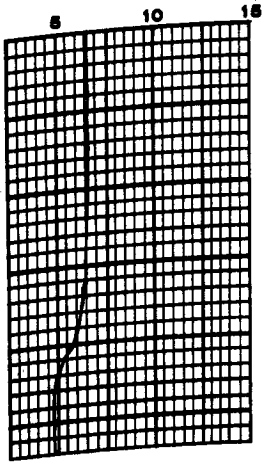

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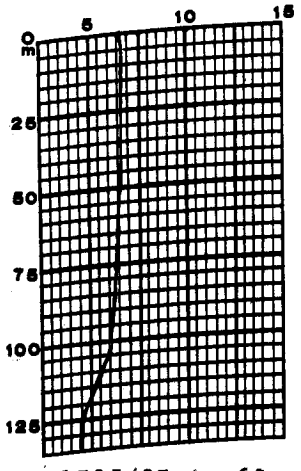
Grid KK



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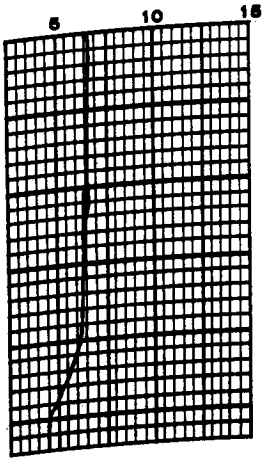

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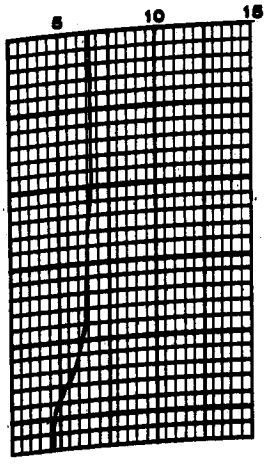

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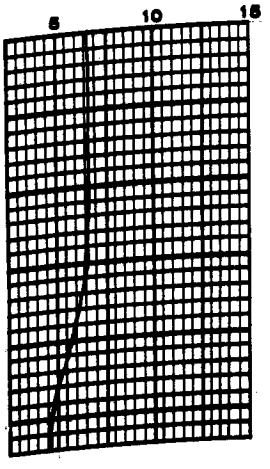

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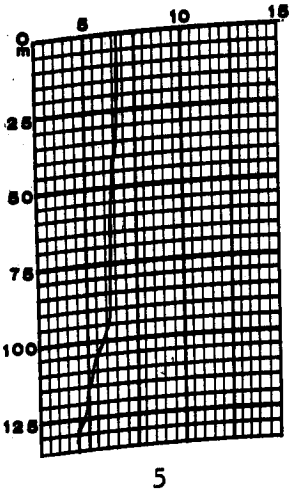

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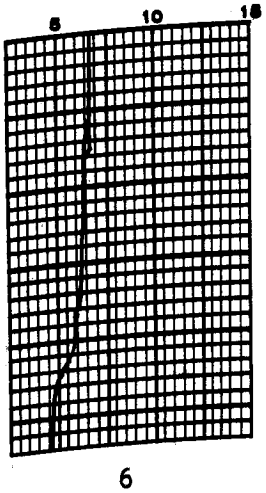

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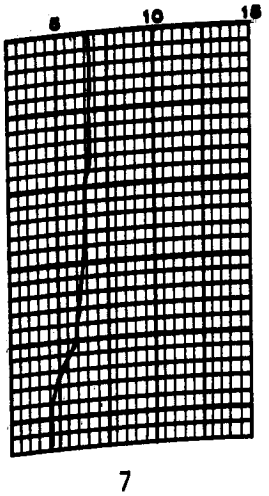

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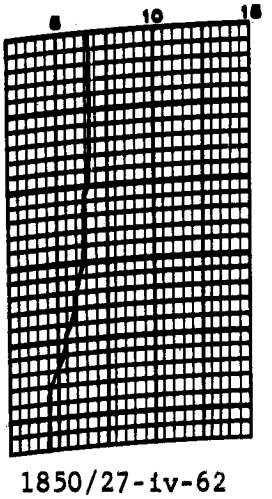

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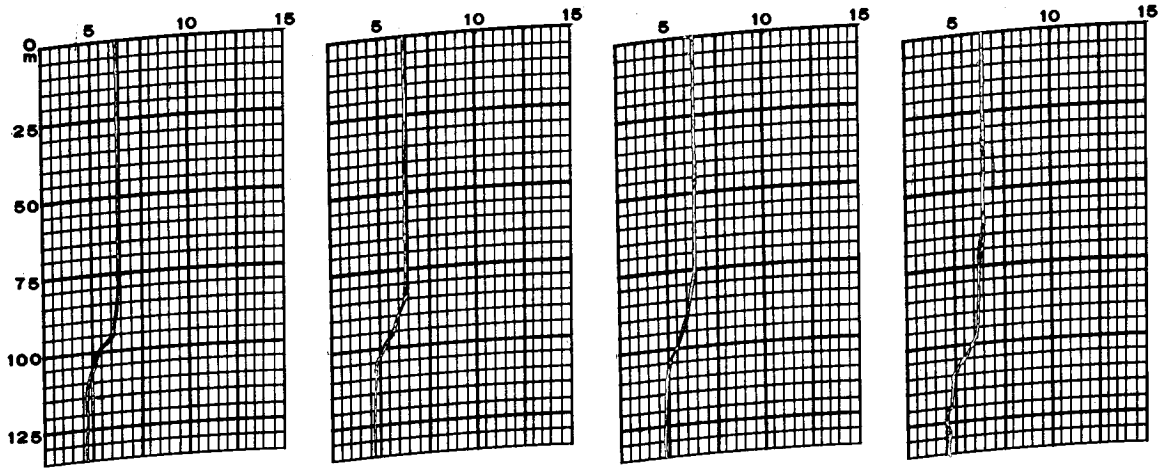
Grid JJ



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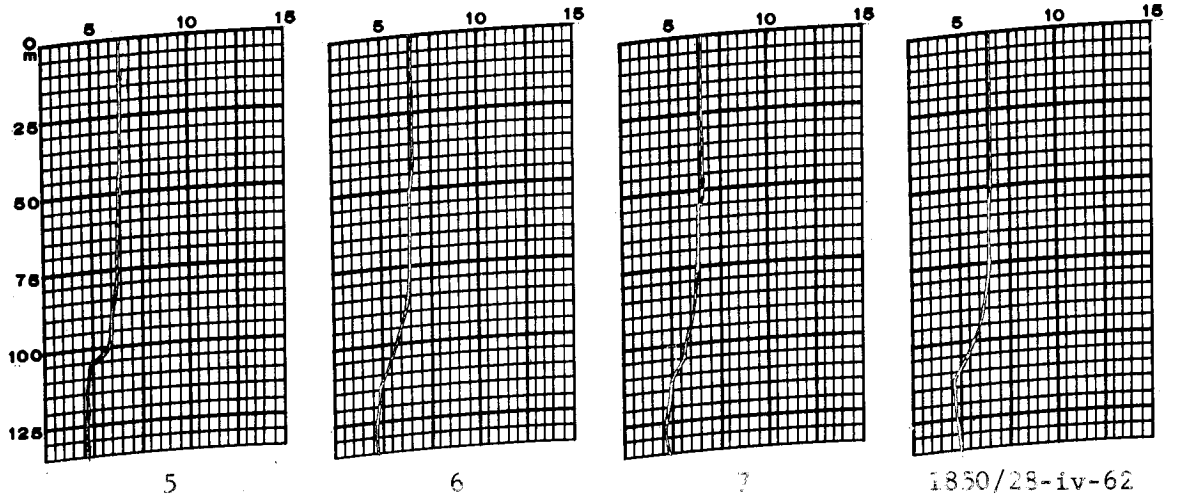

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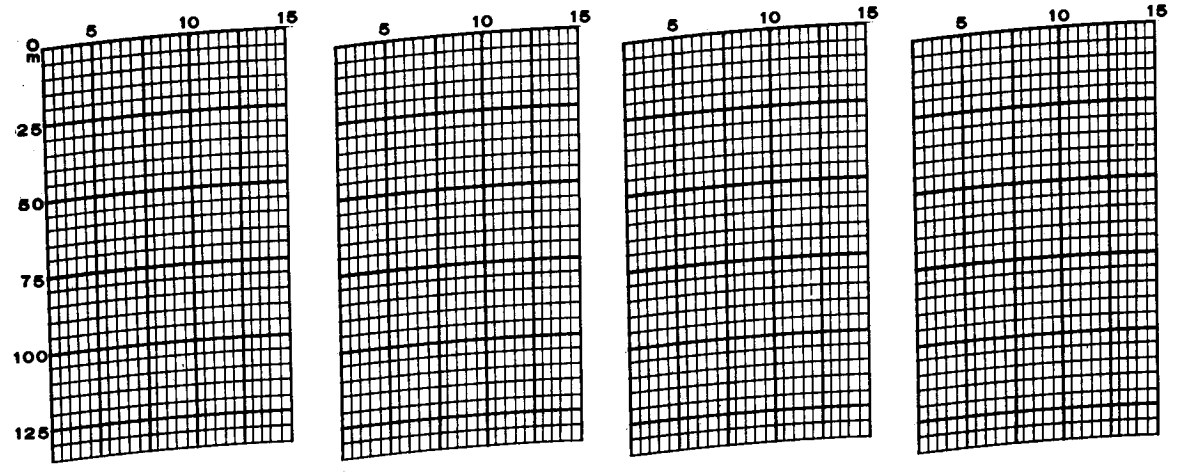
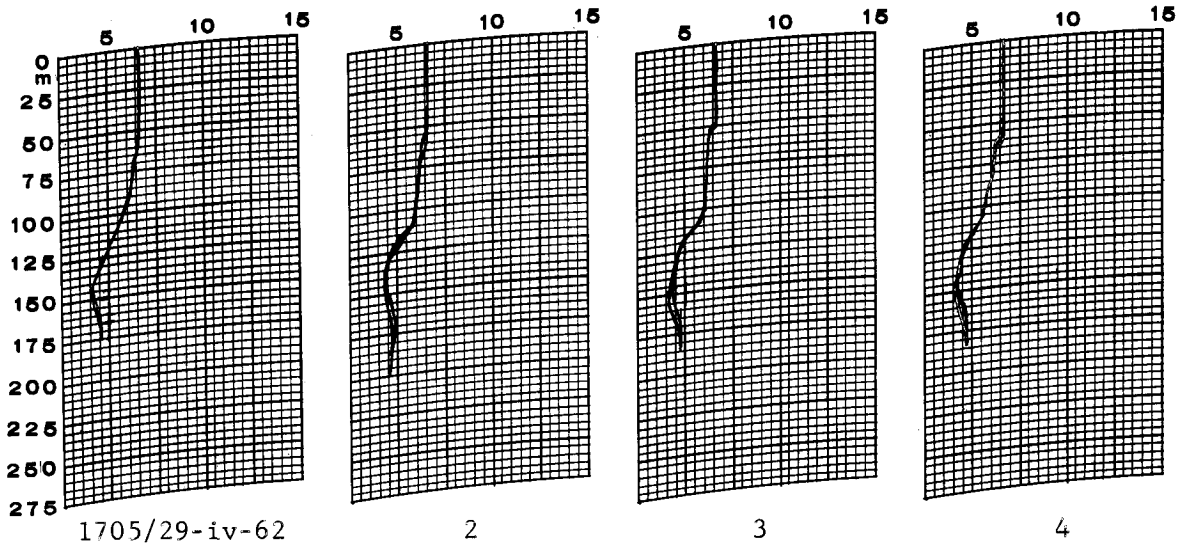
Grid OS





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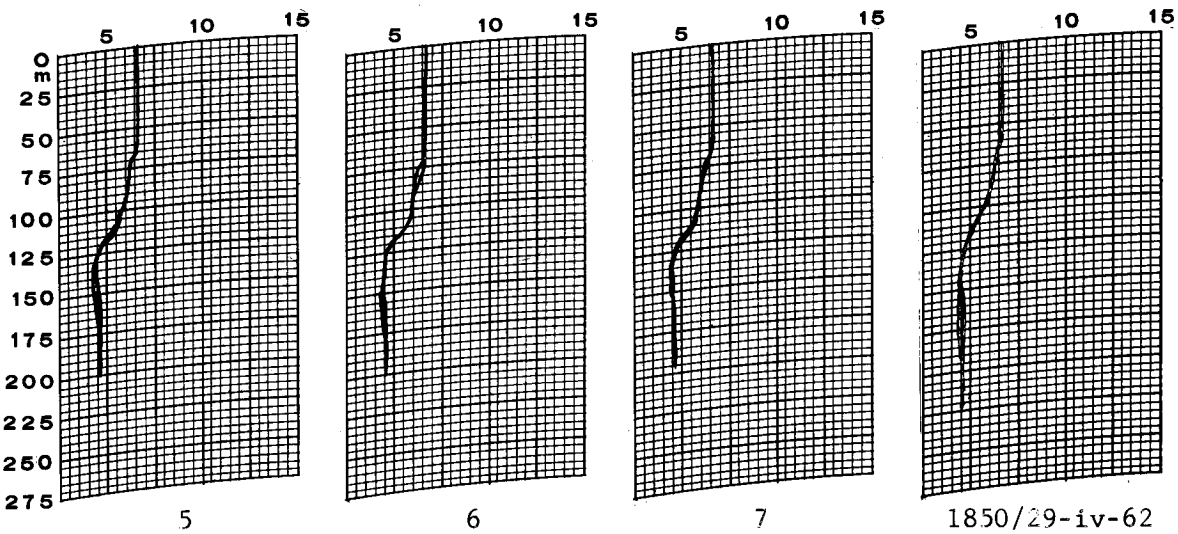

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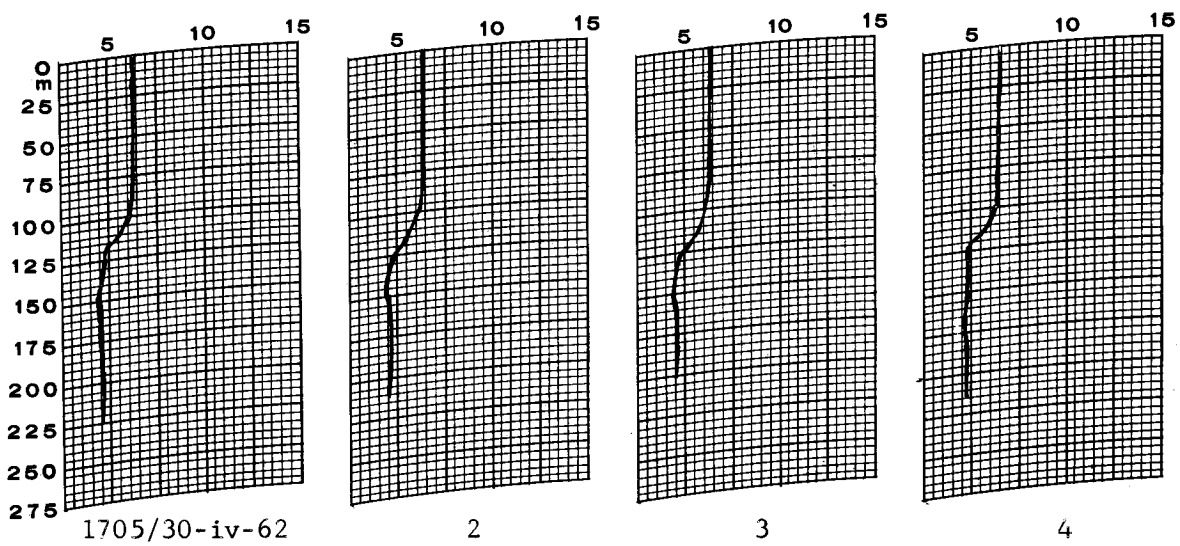

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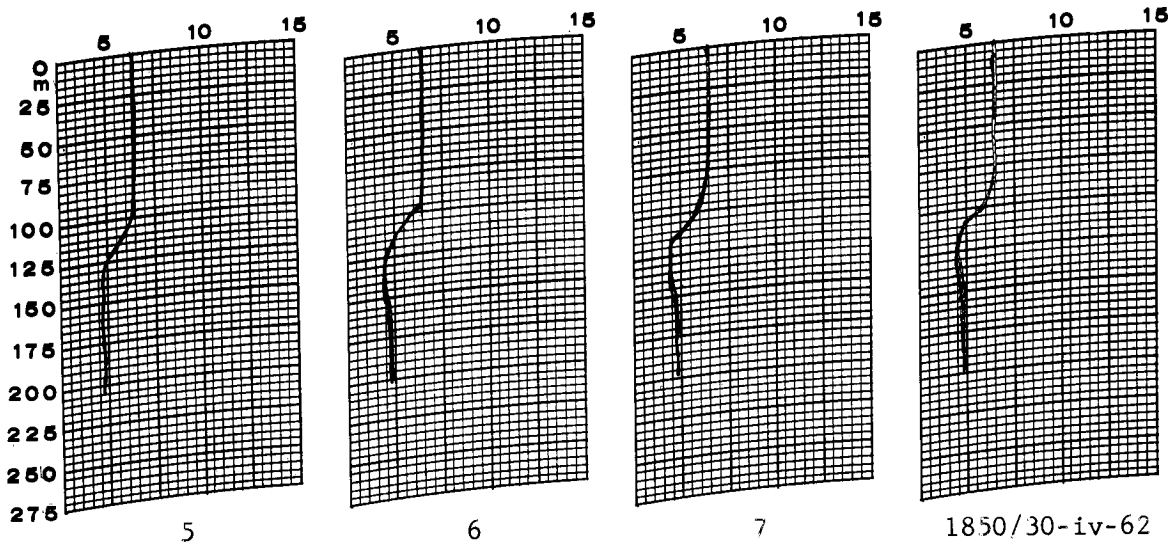

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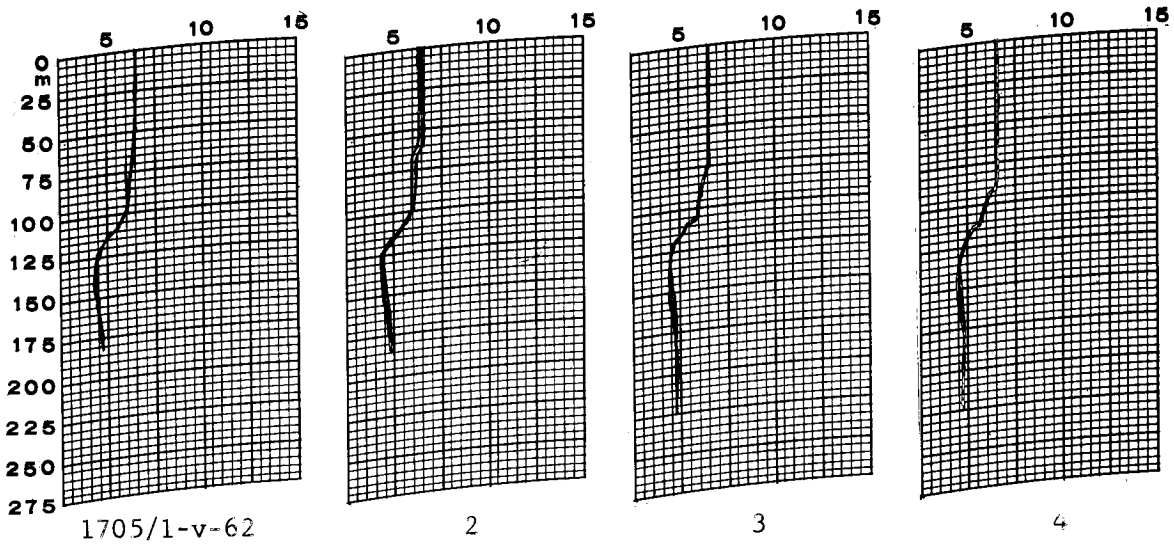
Grid OS



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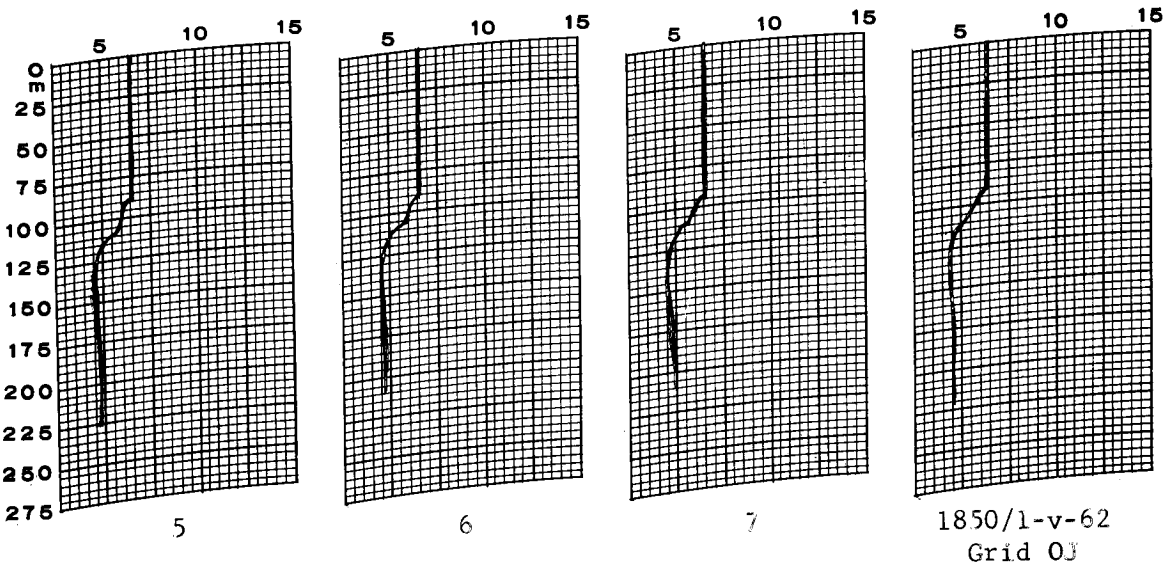

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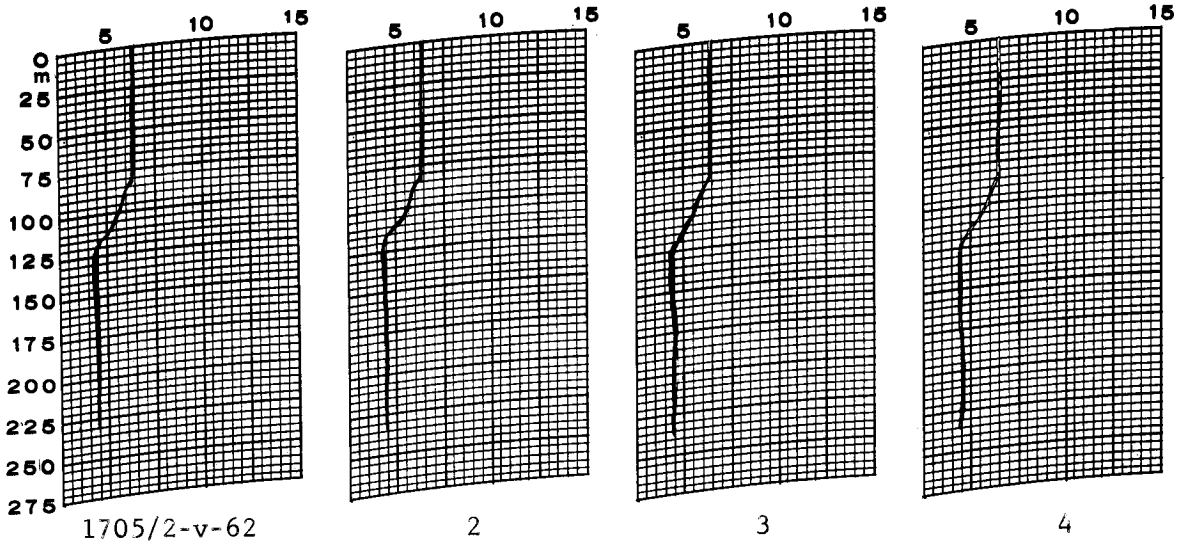
Grid OJ



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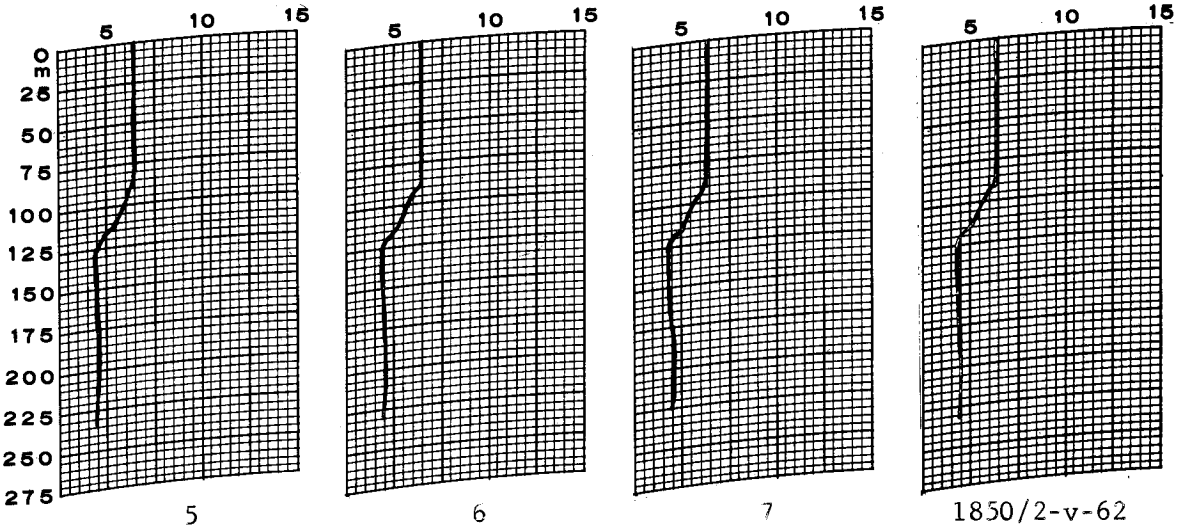

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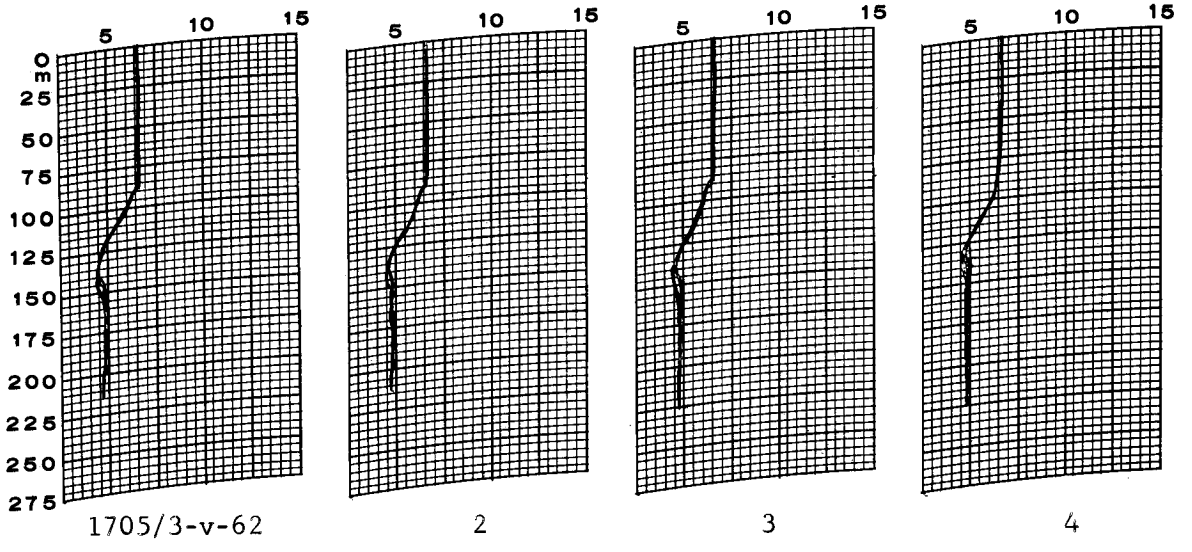
Grid OJ



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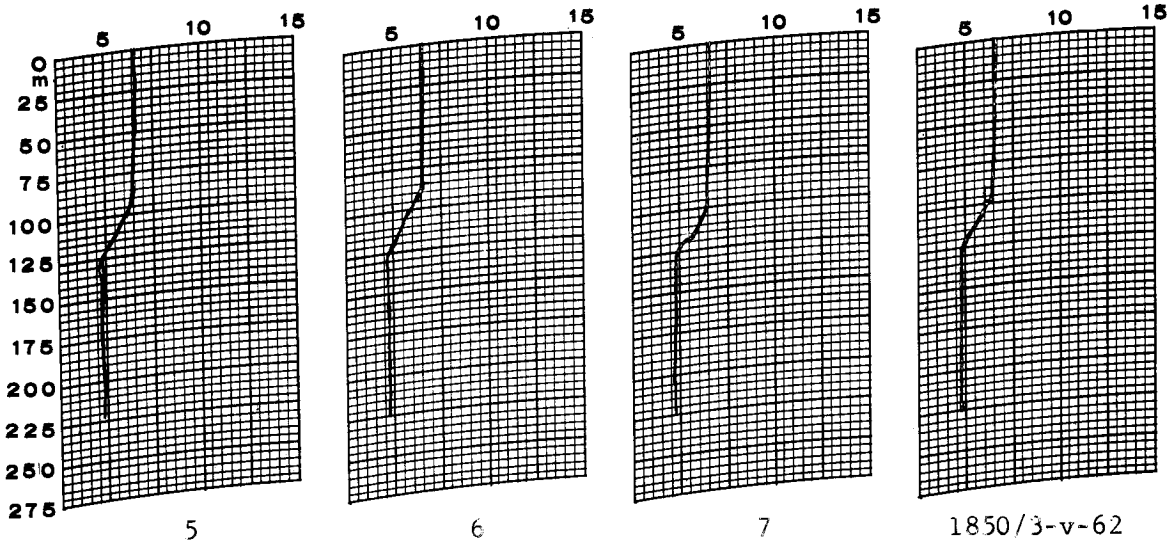

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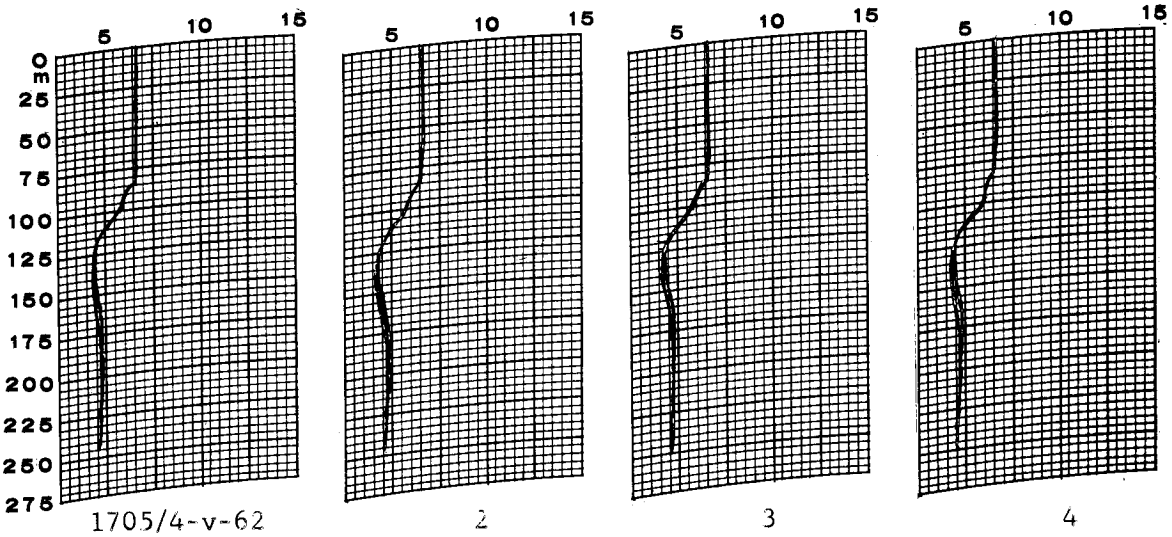

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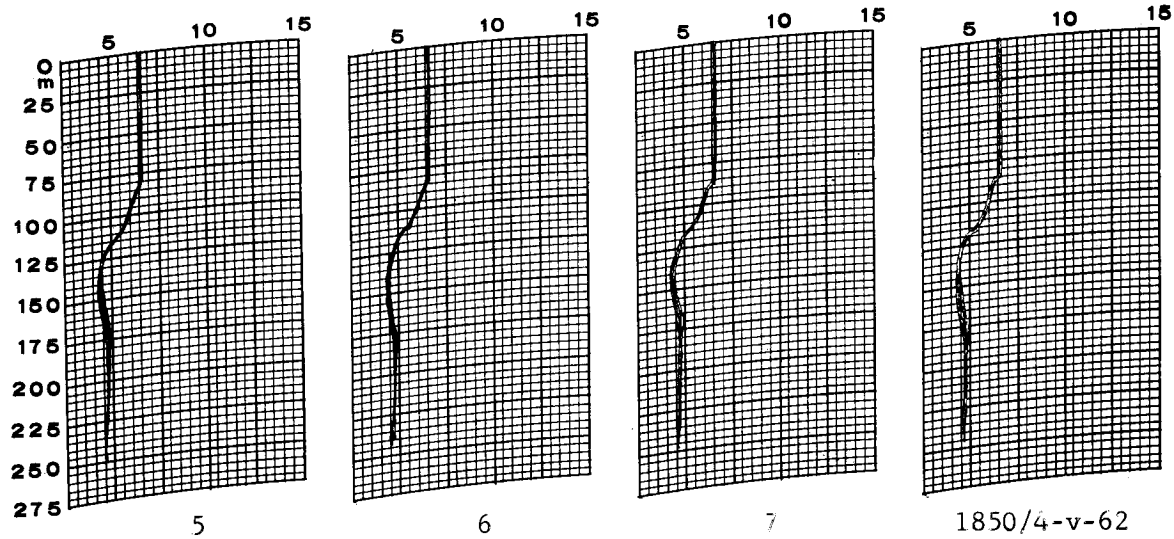

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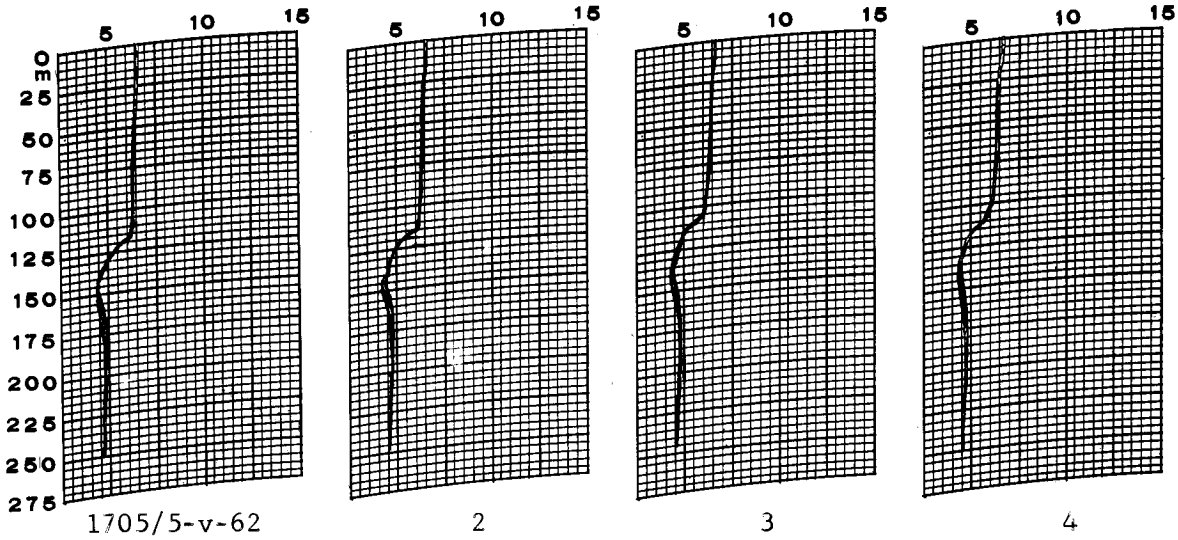
Grid KS



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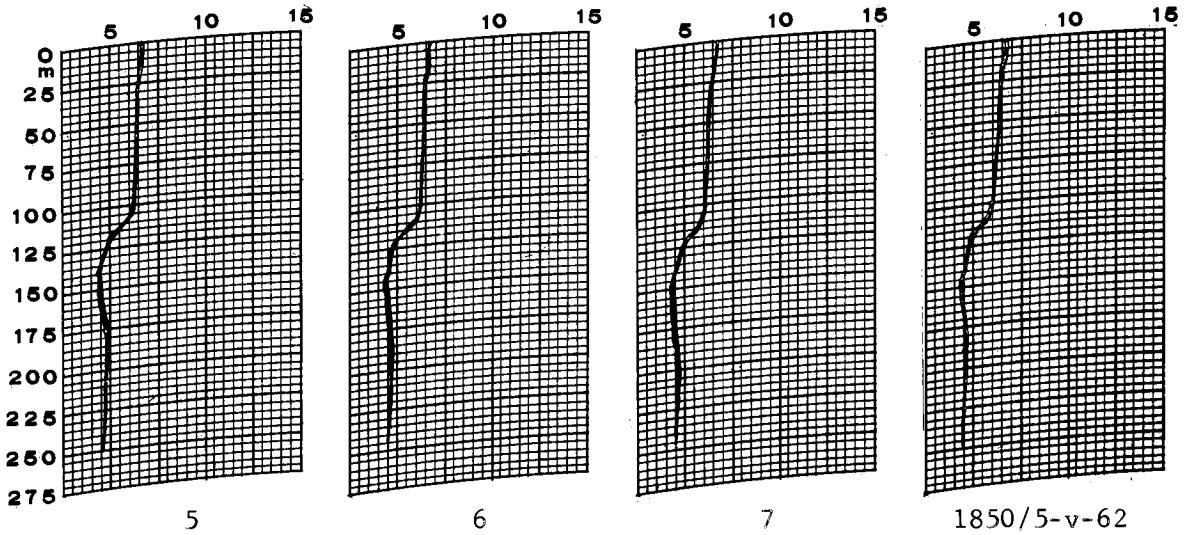

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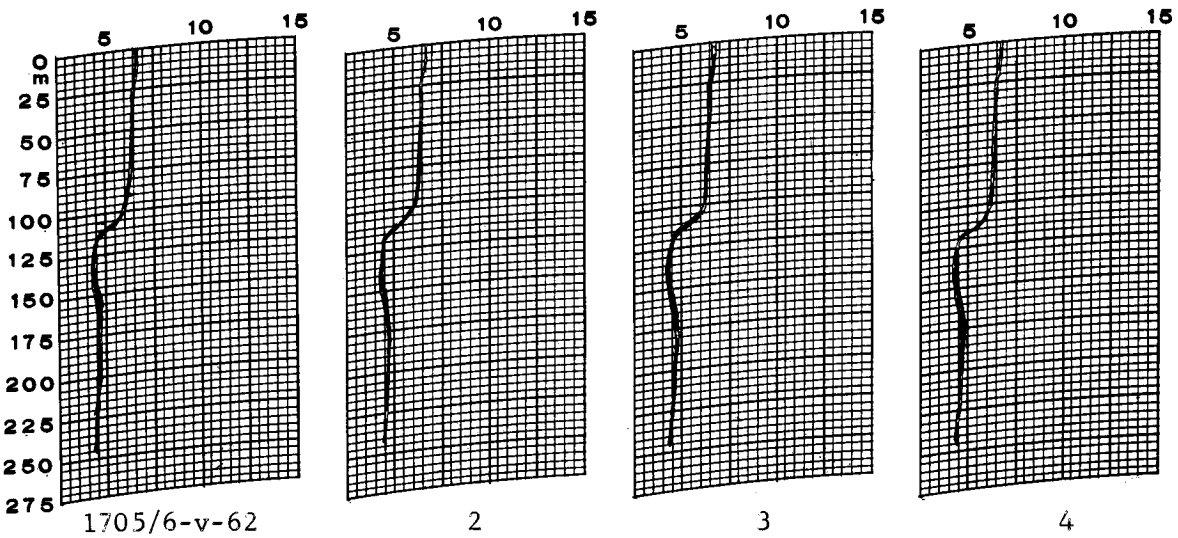
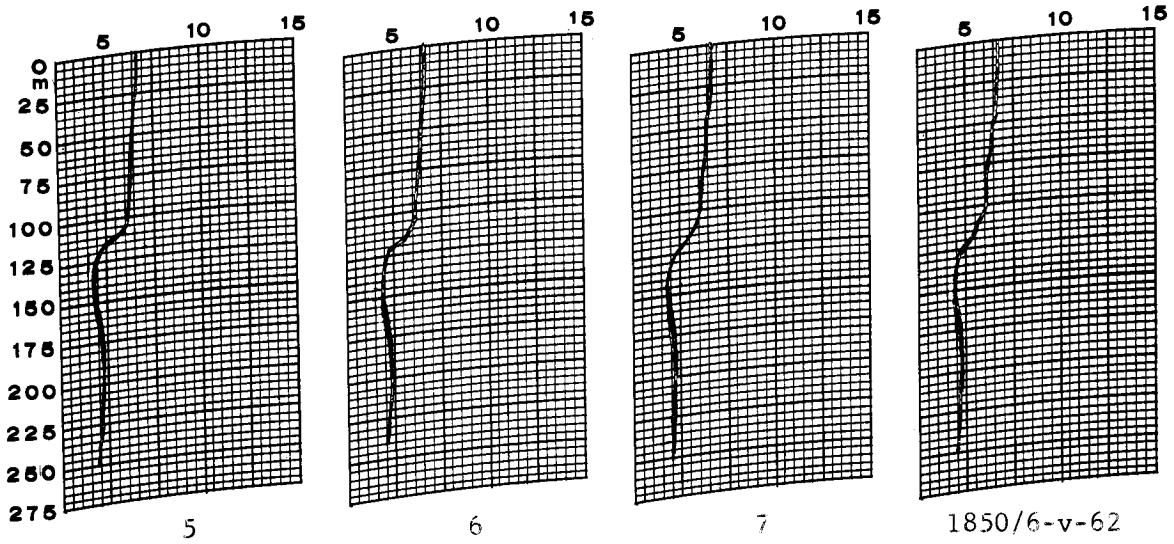


1705/6-v-62 2 3 4



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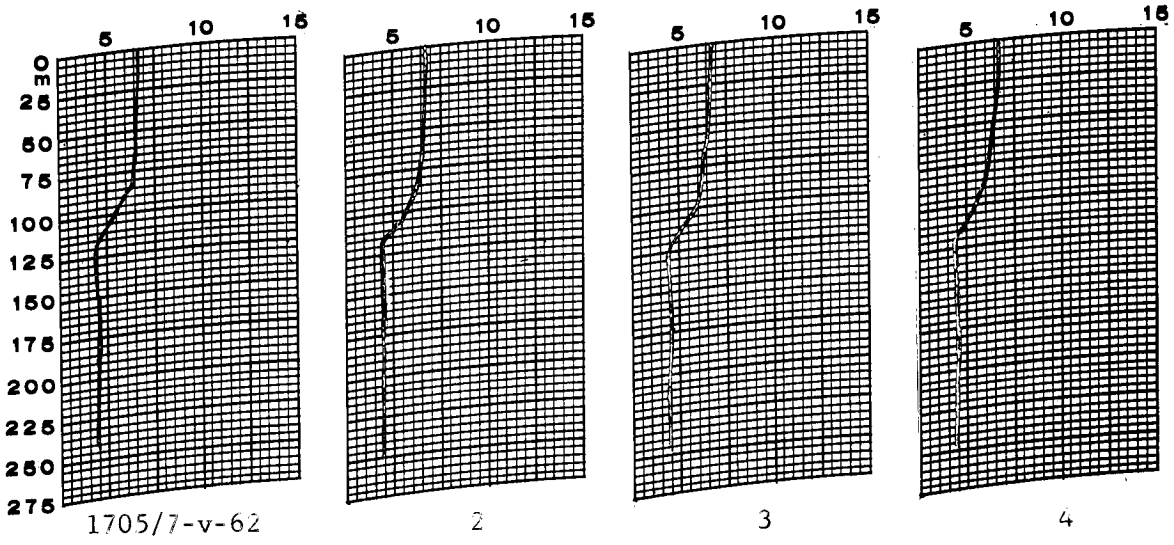

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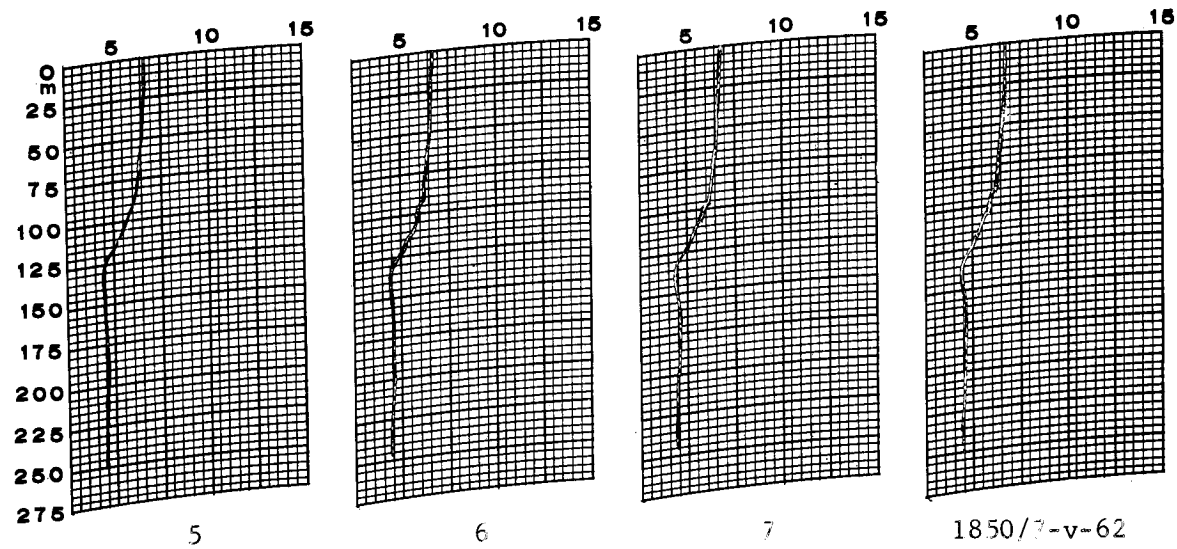

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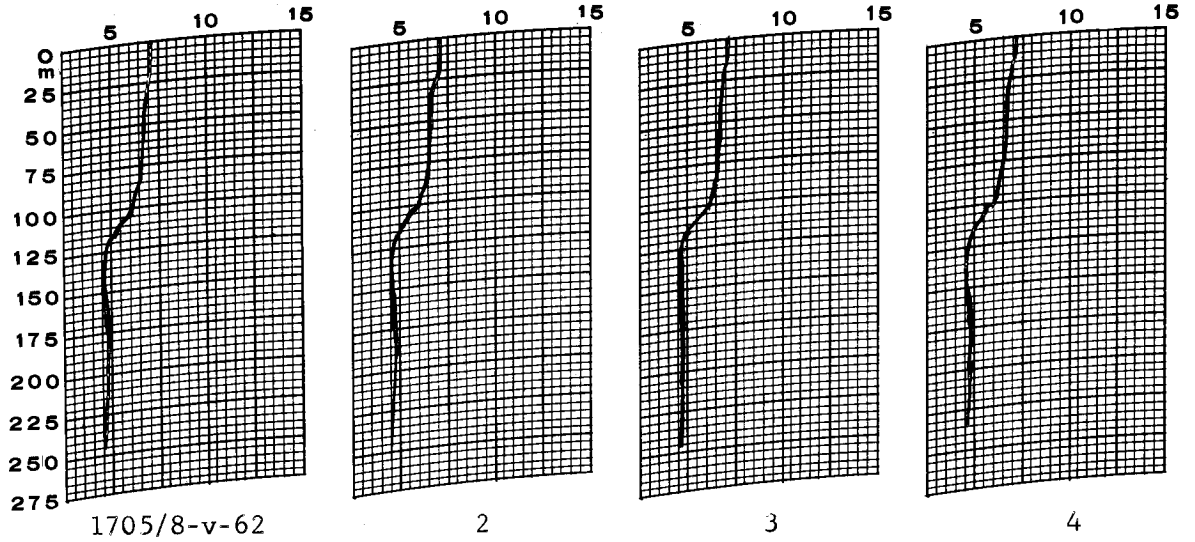
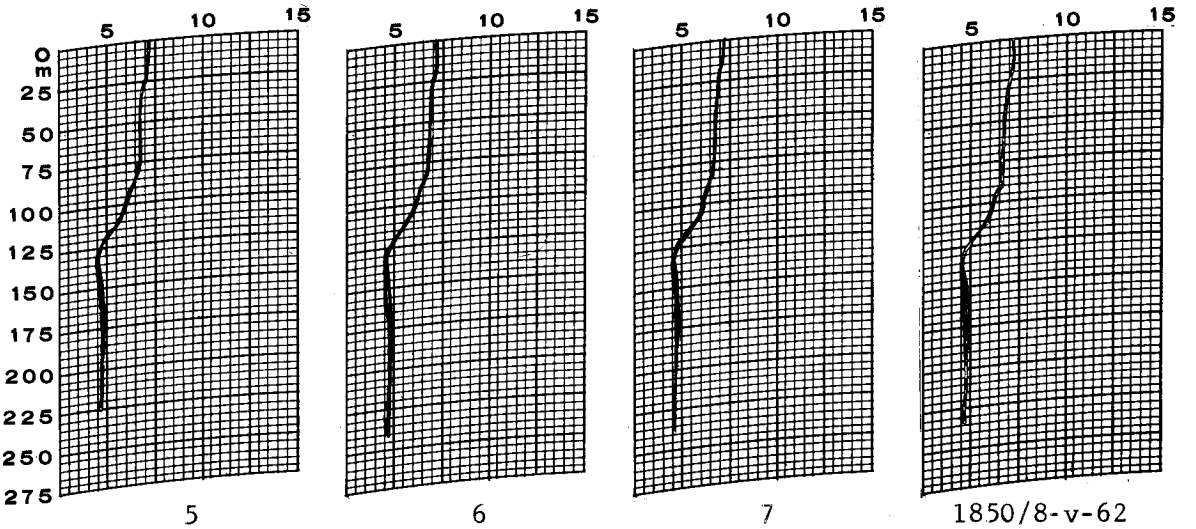


1705/8-v-62 2 3 4



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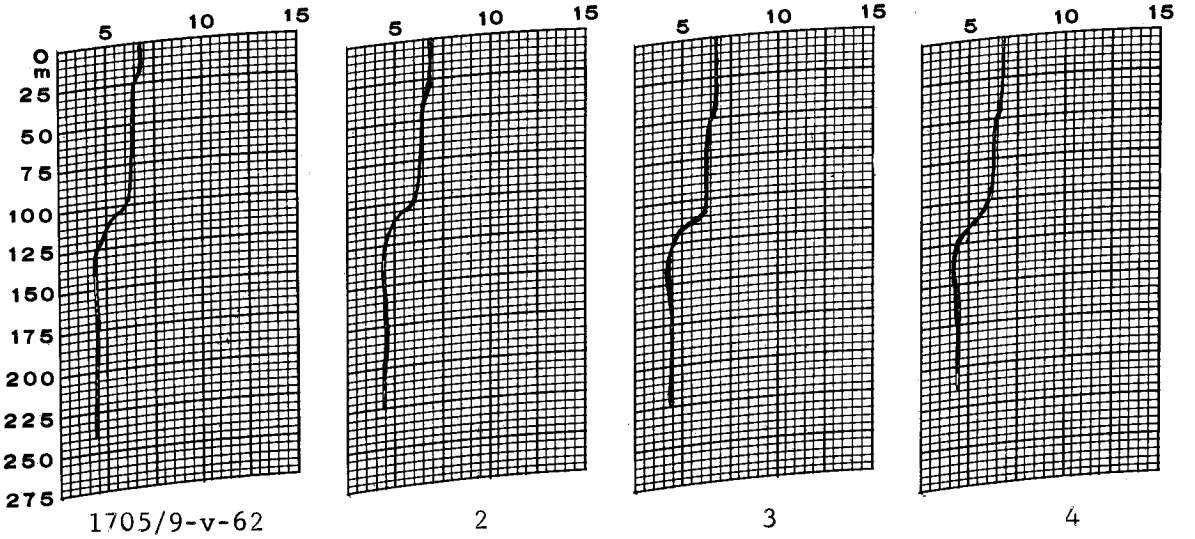
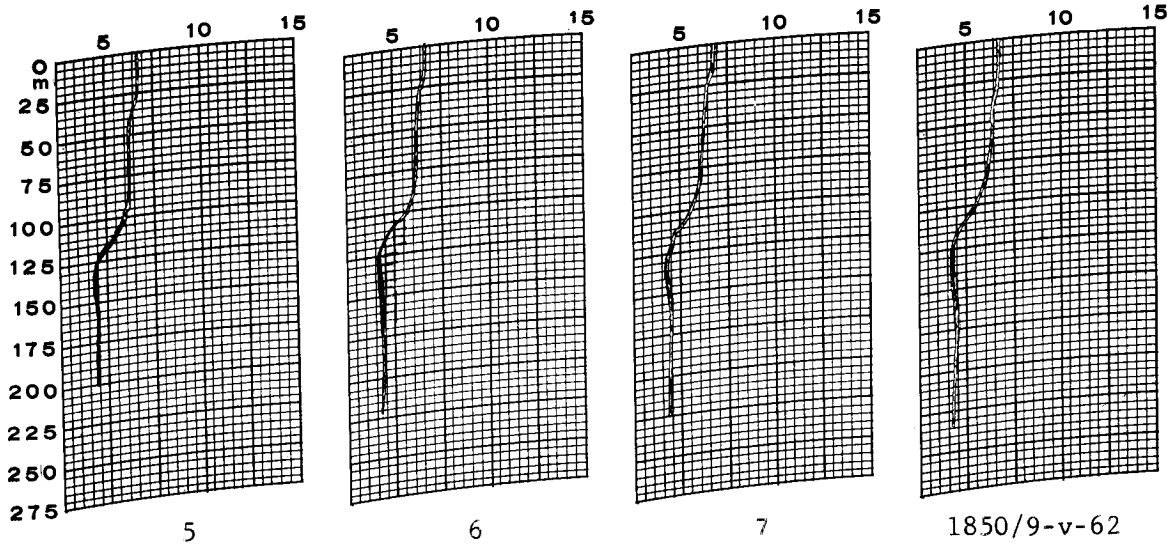
Grid KS



1705/9-v-62 2 3 4



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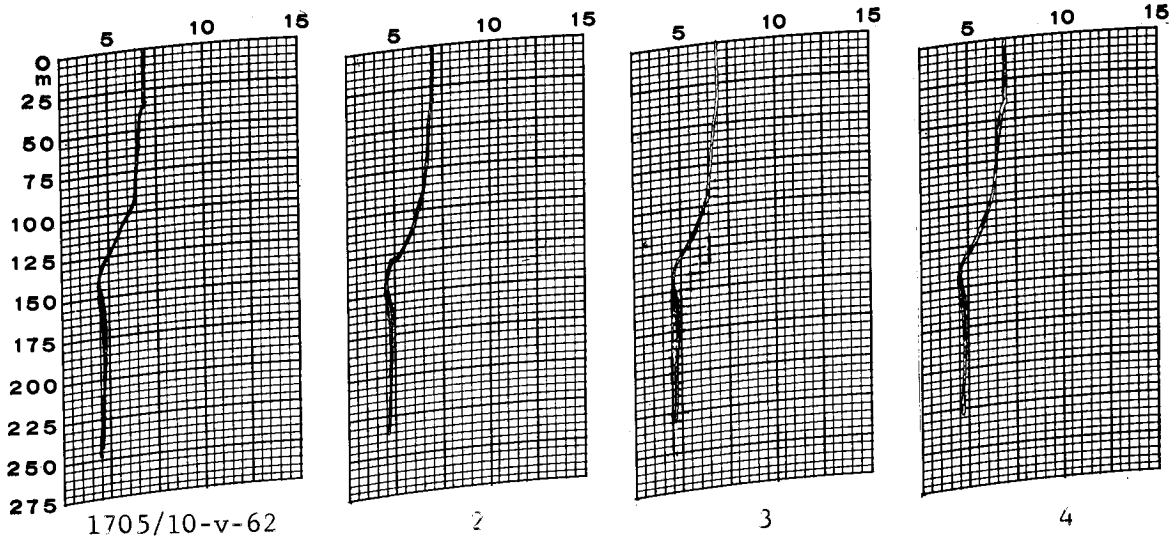
Grid OS



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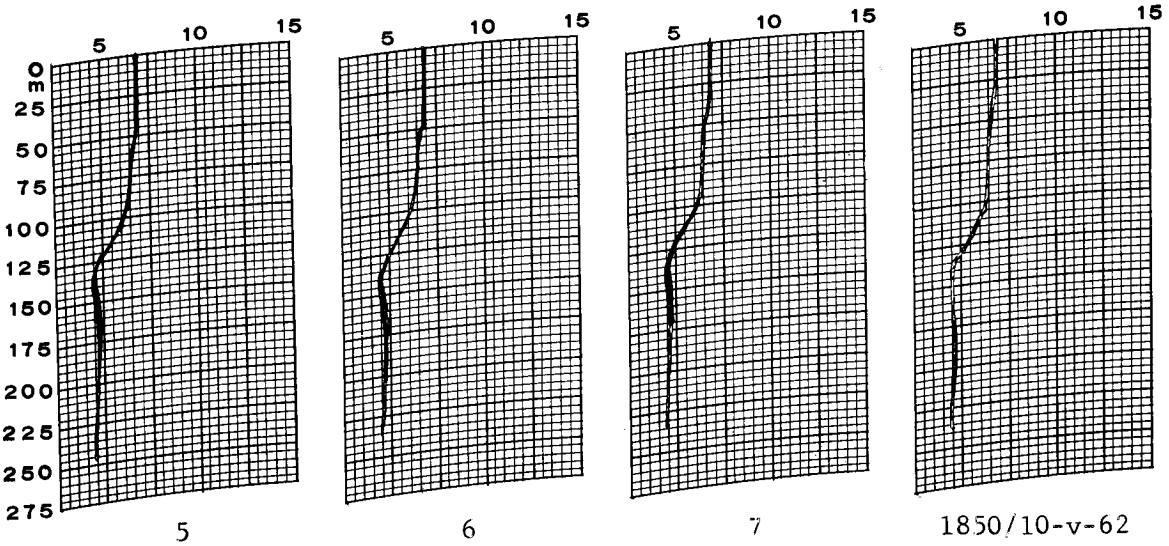

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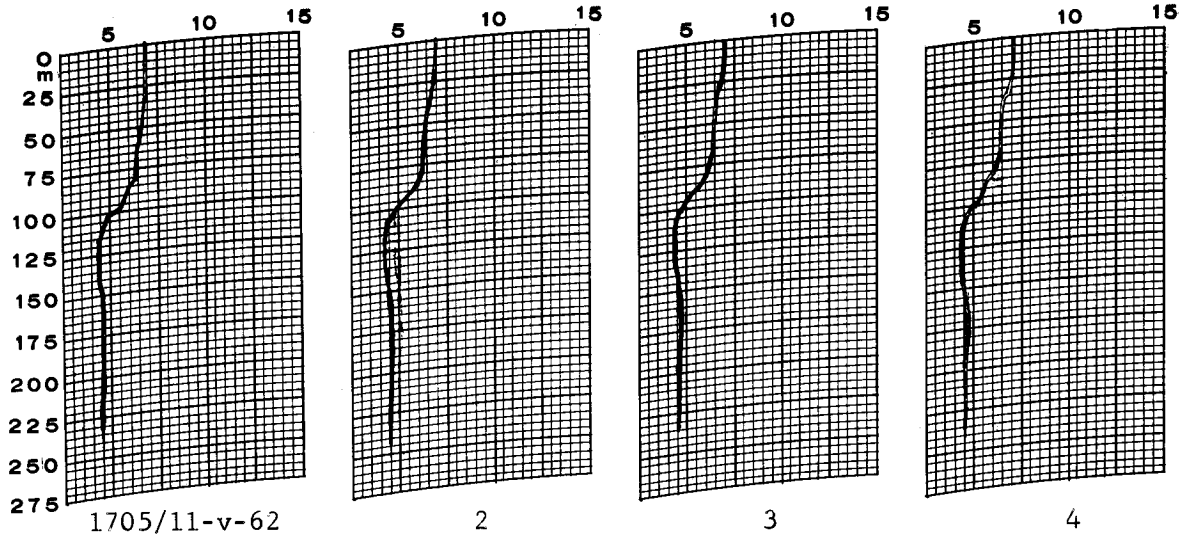

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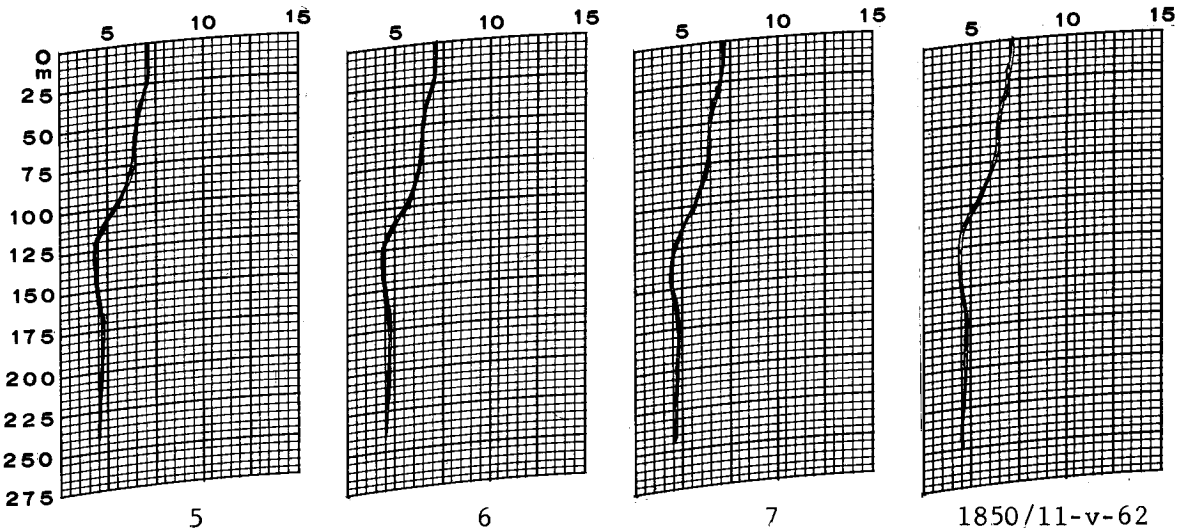

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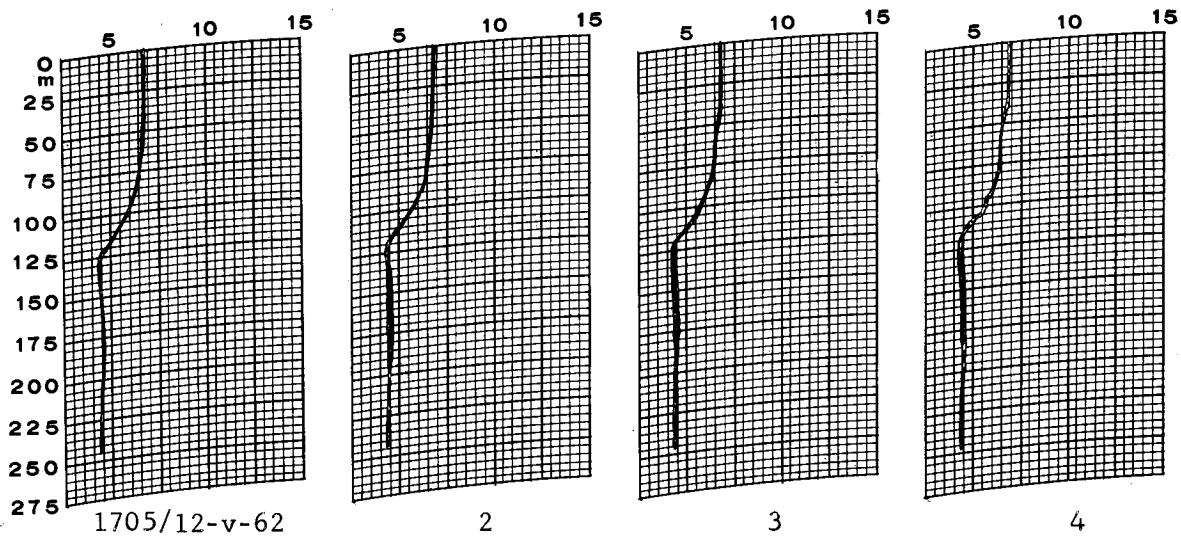

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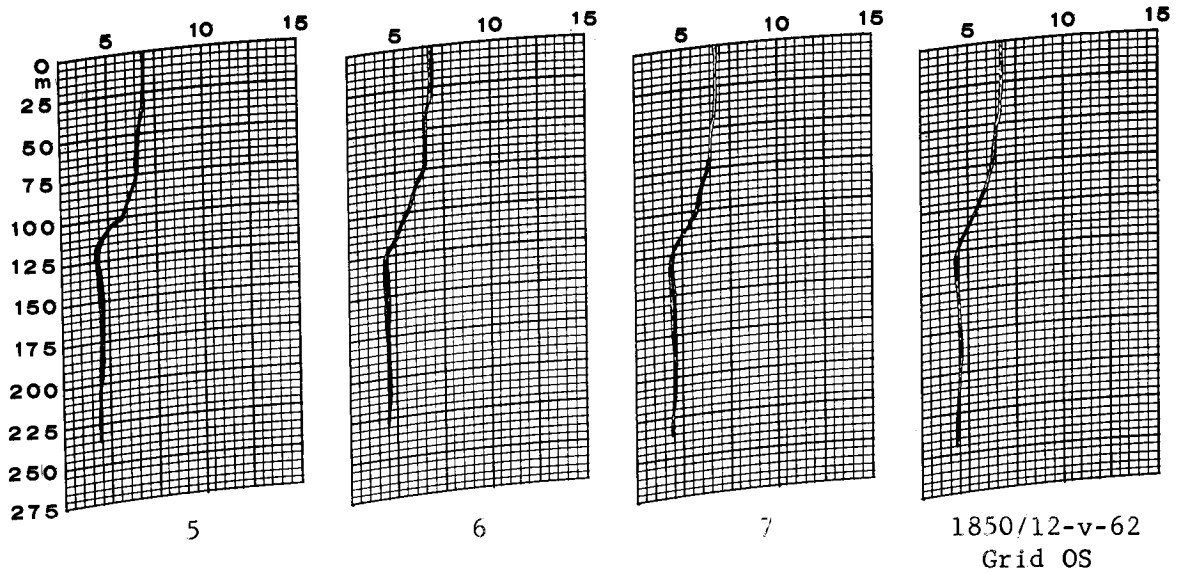

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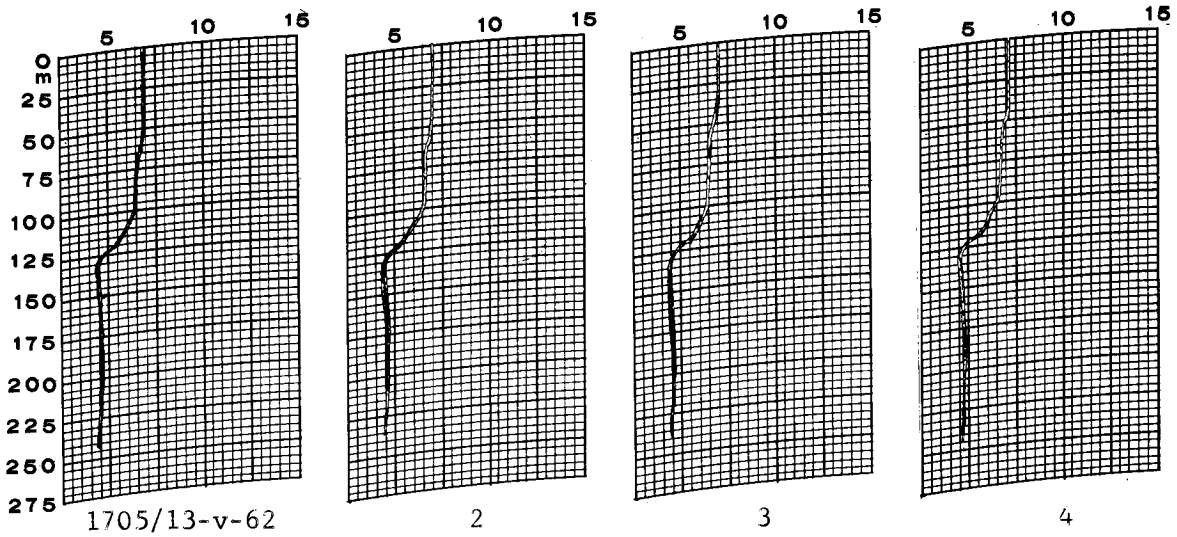

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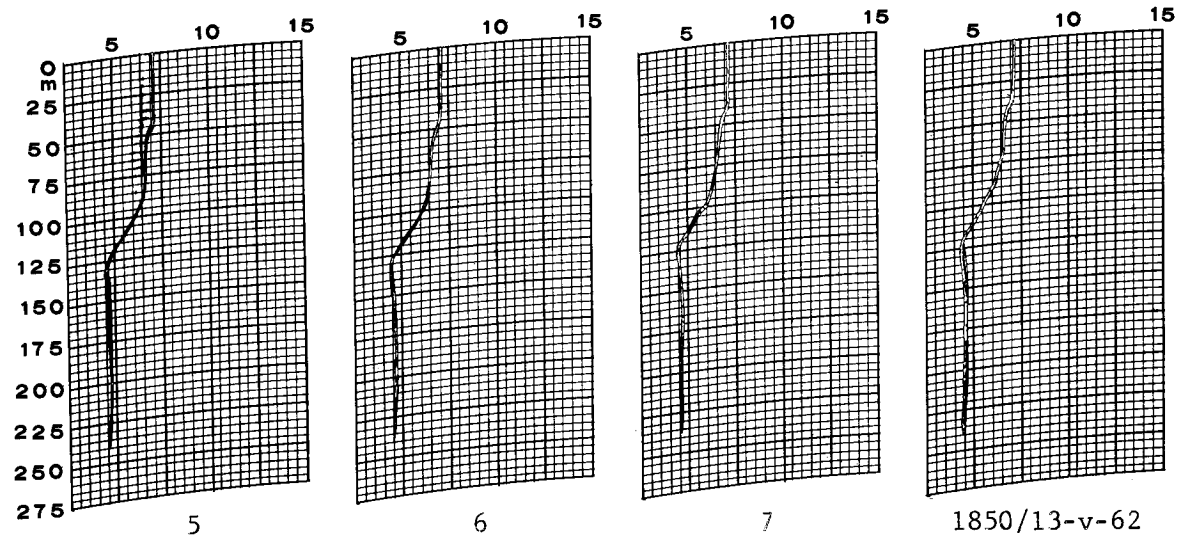

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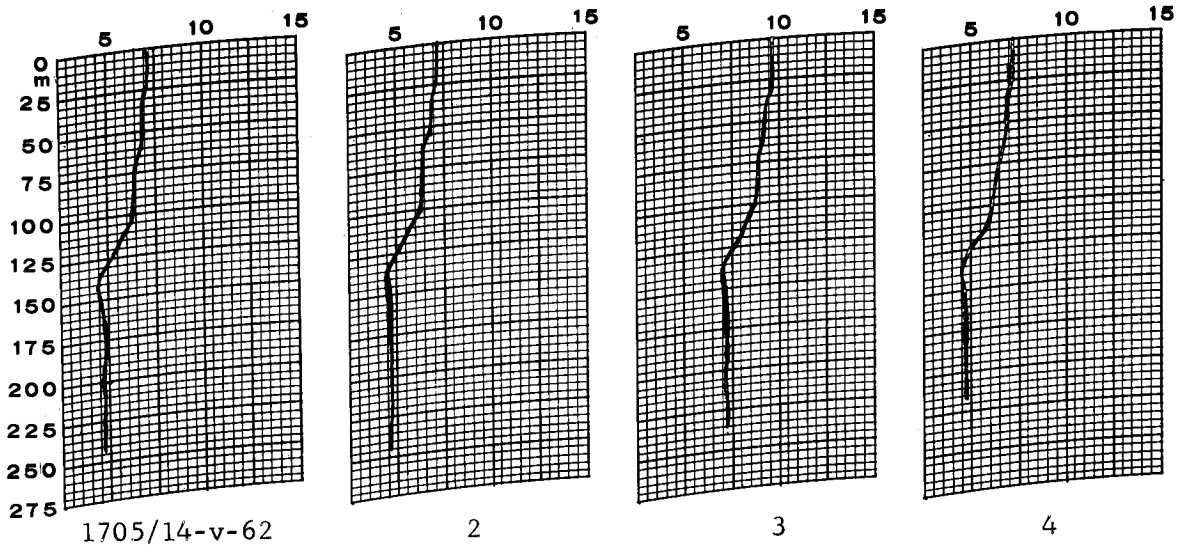
Grid OS



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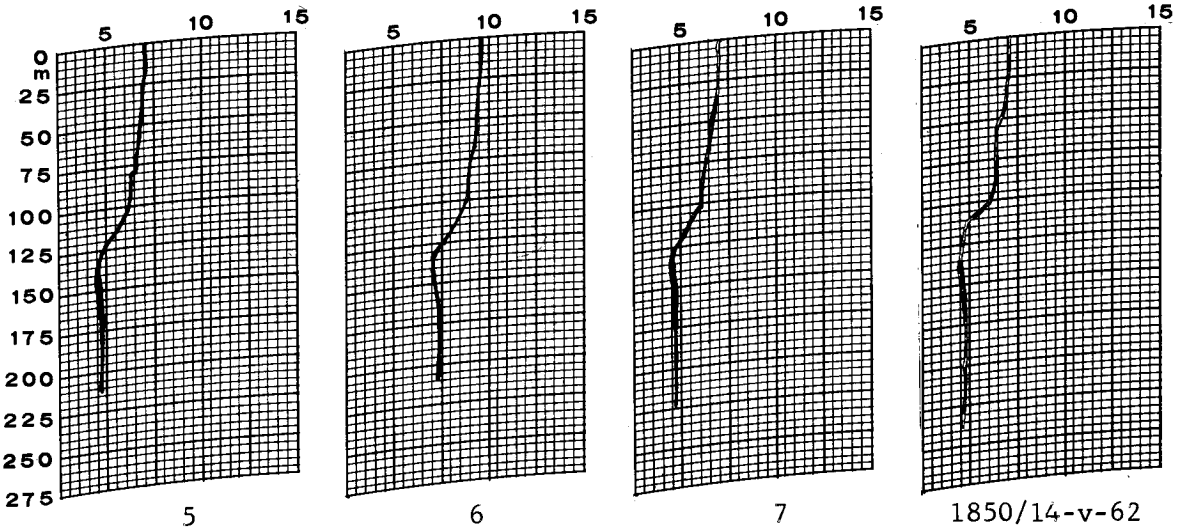

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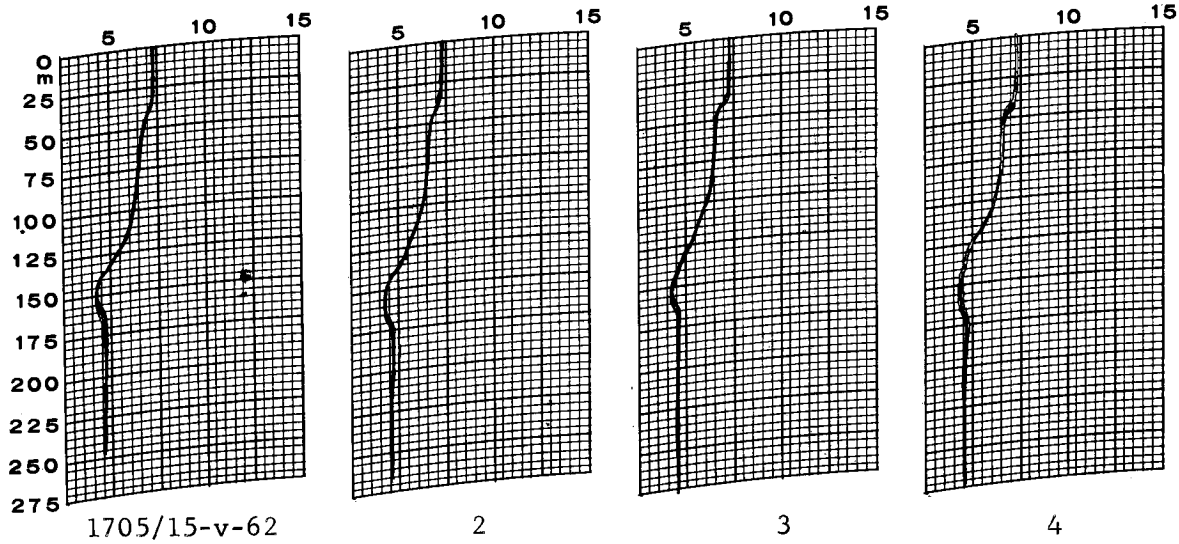

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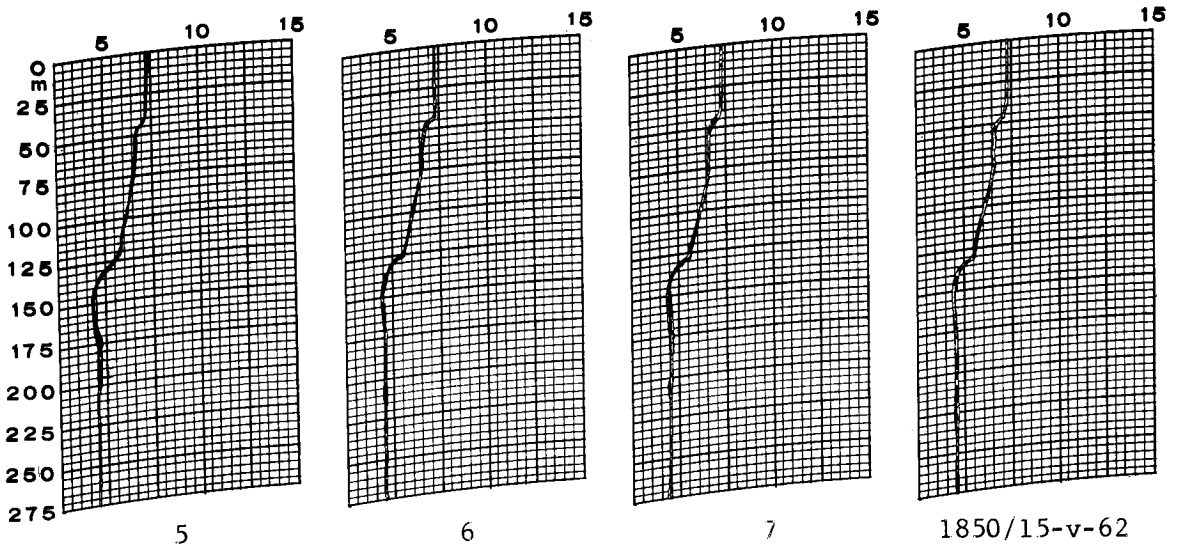

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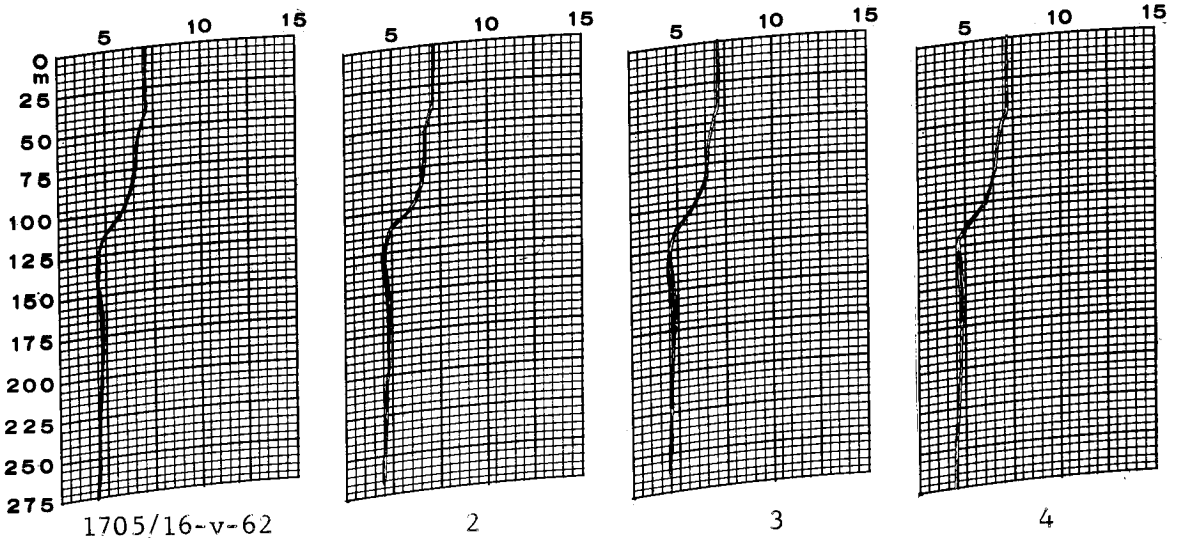
Grid KJ



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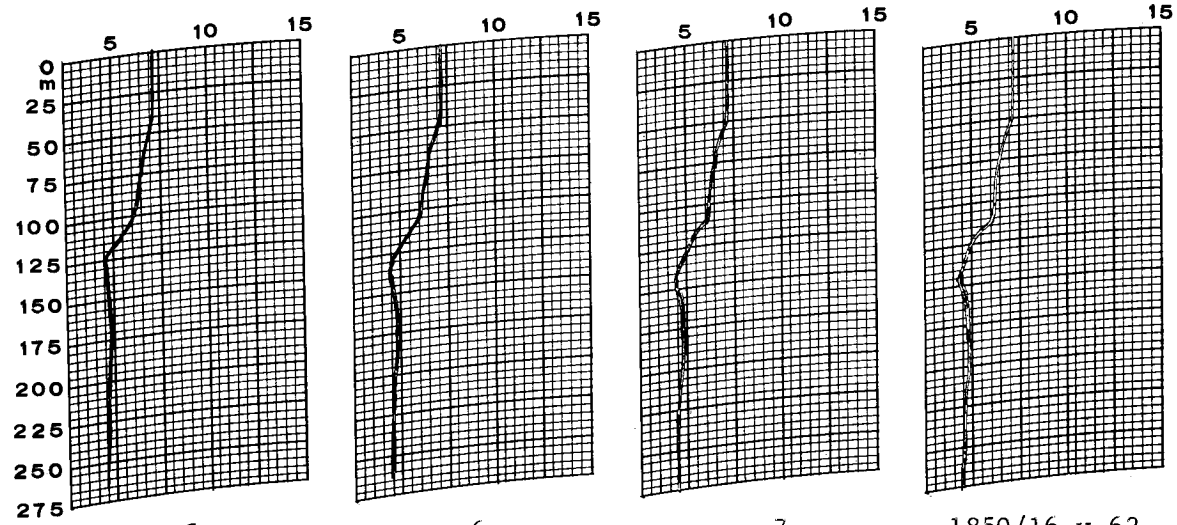

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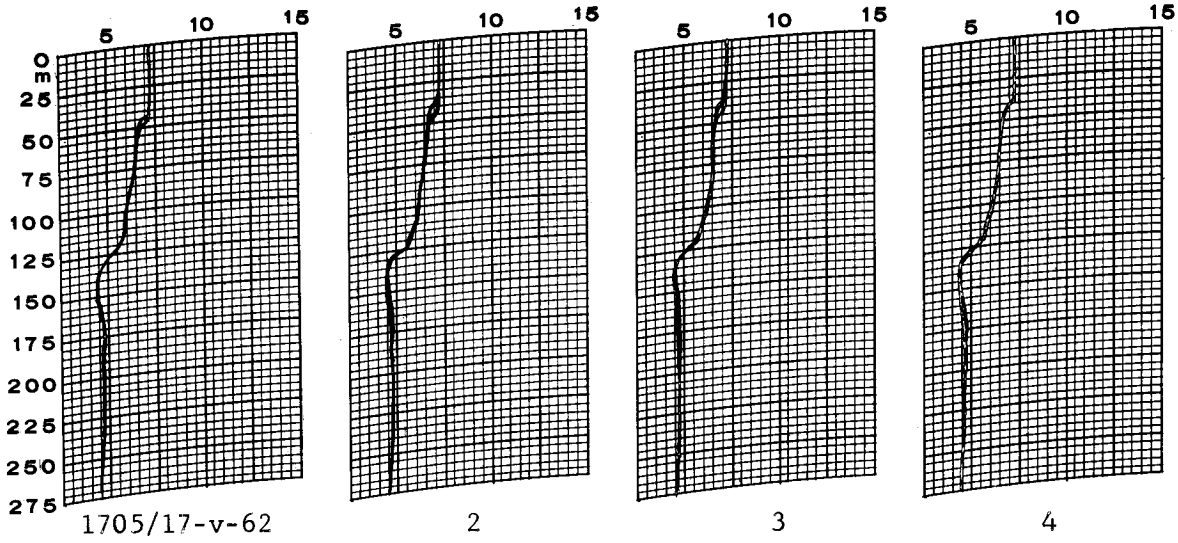

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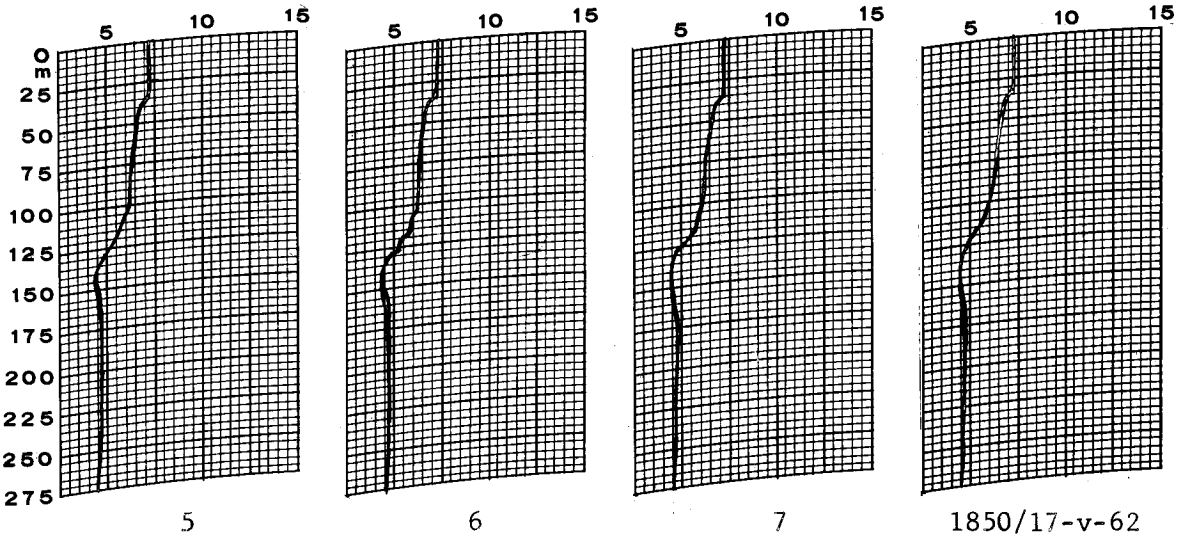

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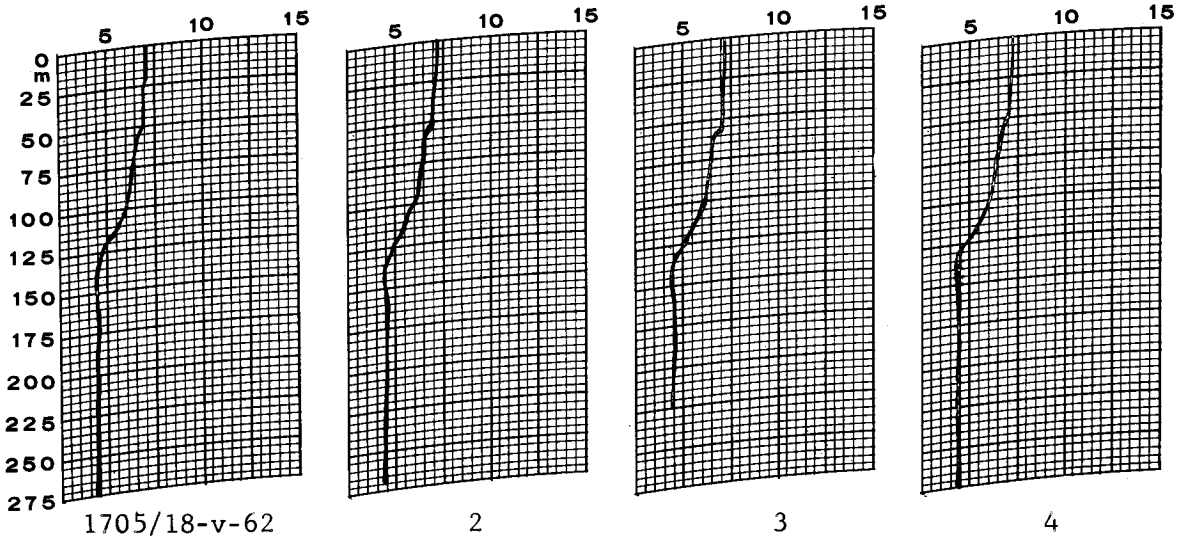

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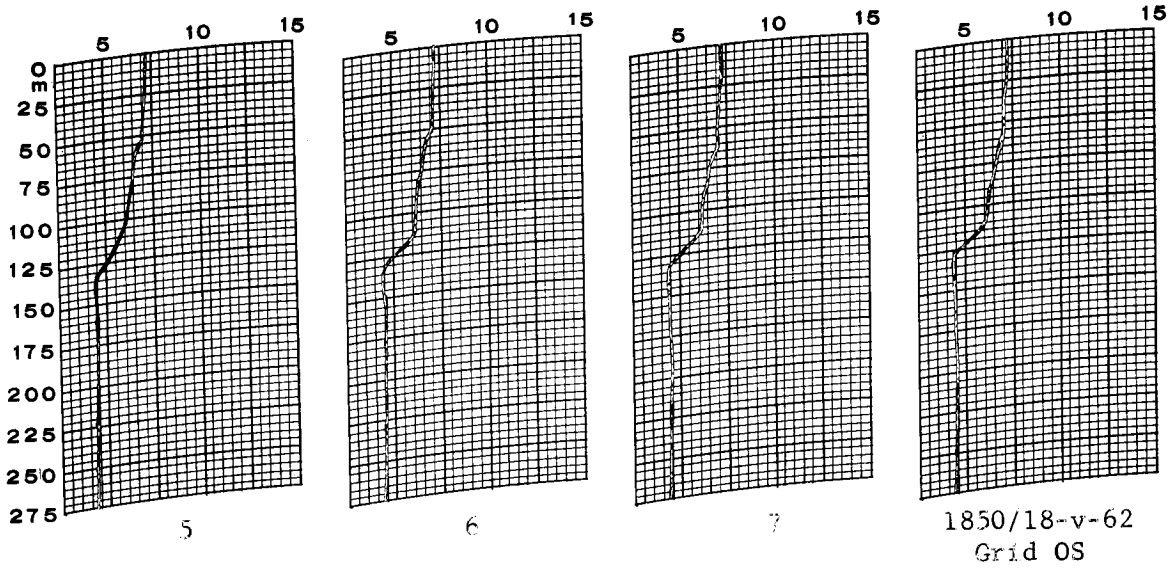

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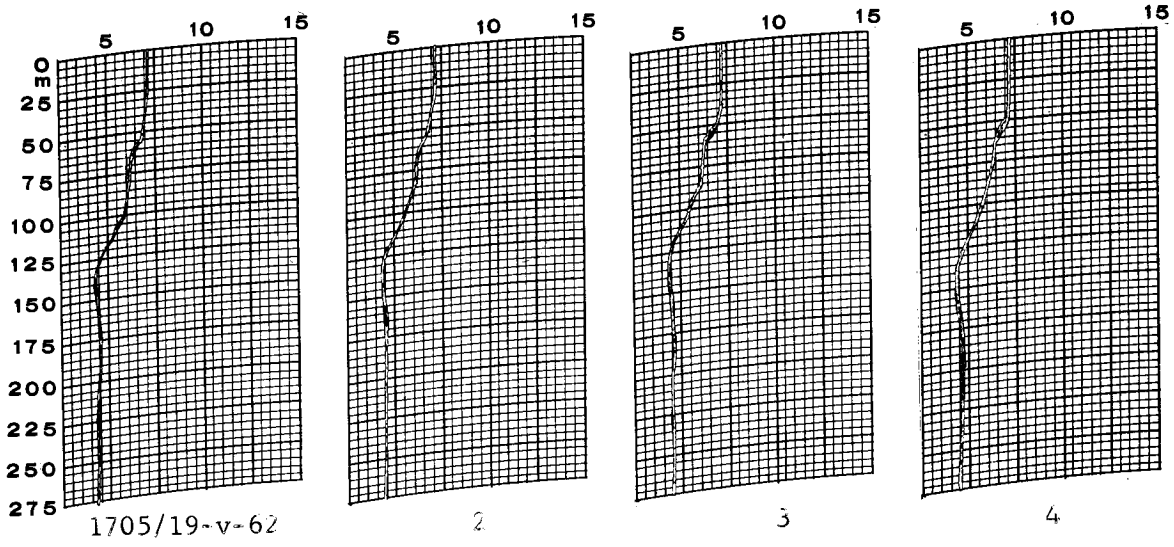

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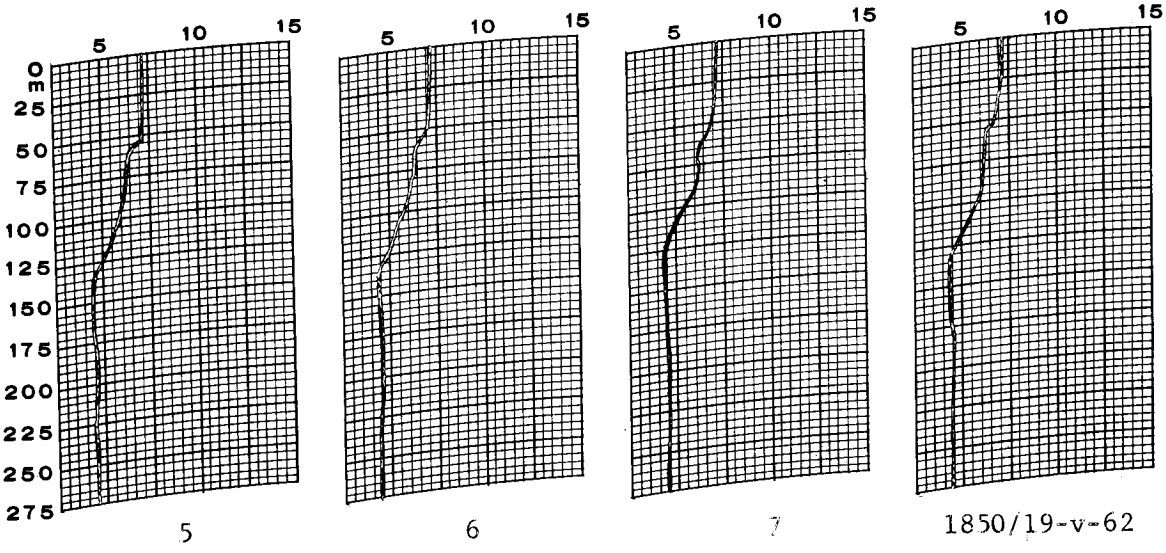

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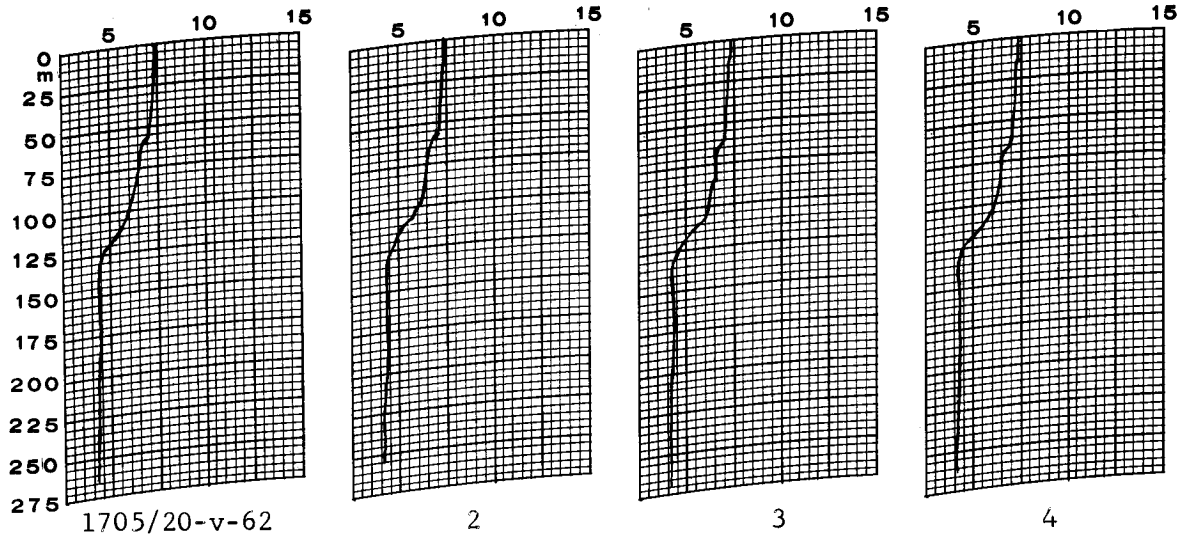

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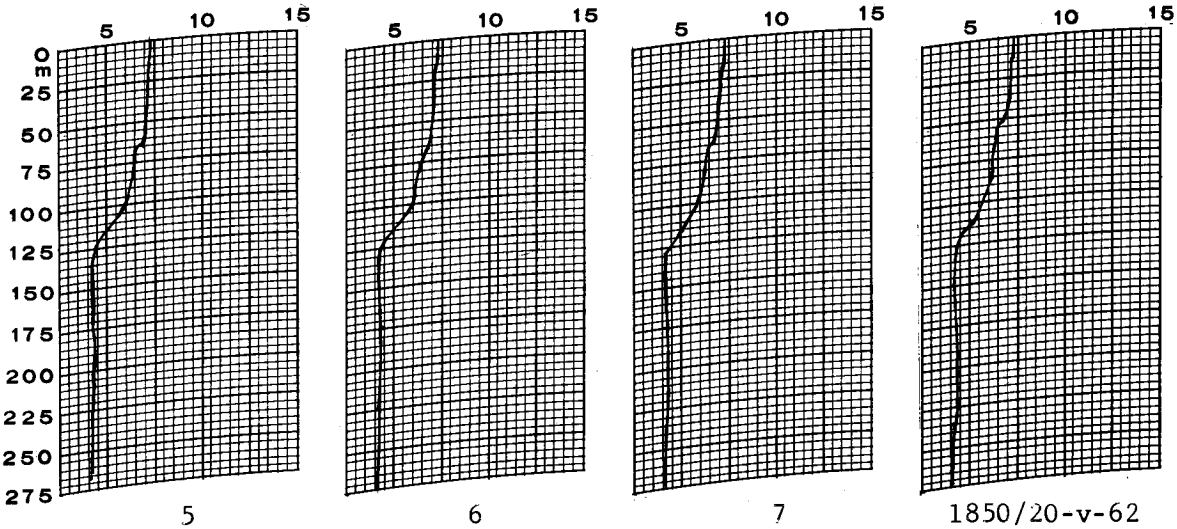

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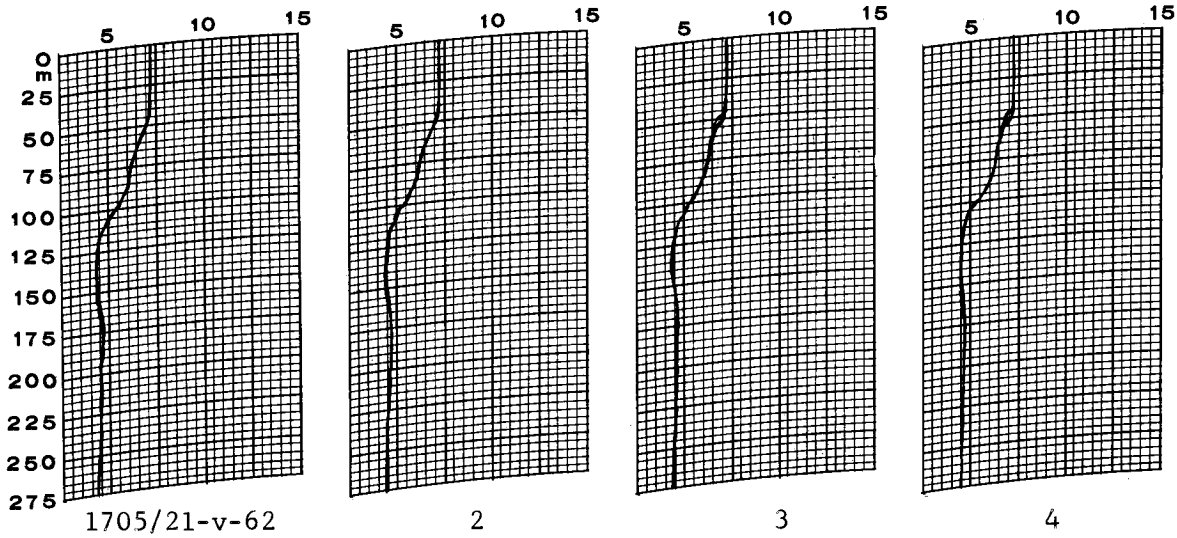
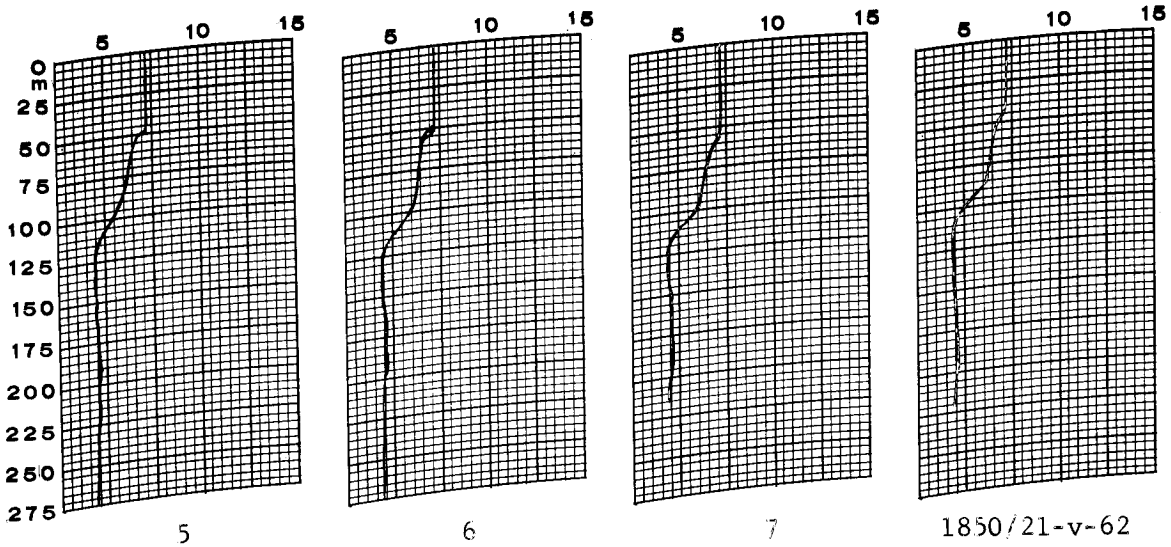


1705/21-v-62 2 3 4



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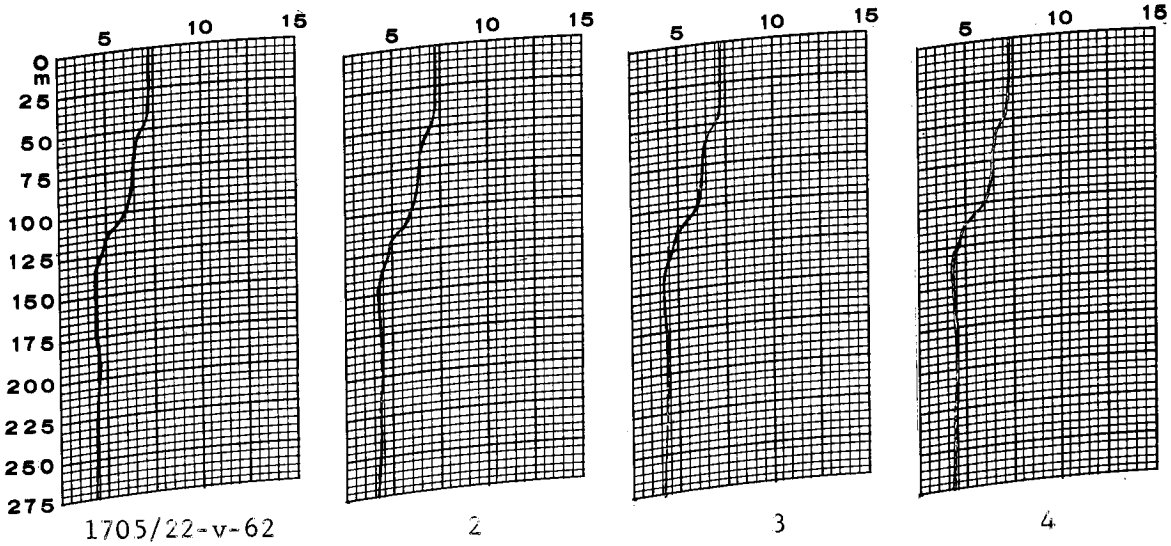
Grid JS



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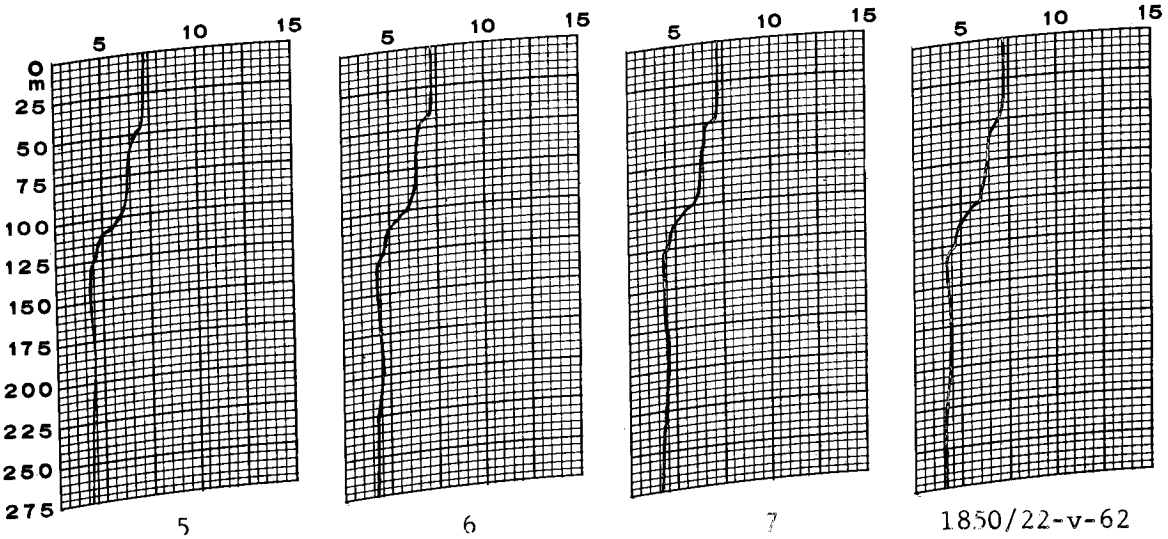

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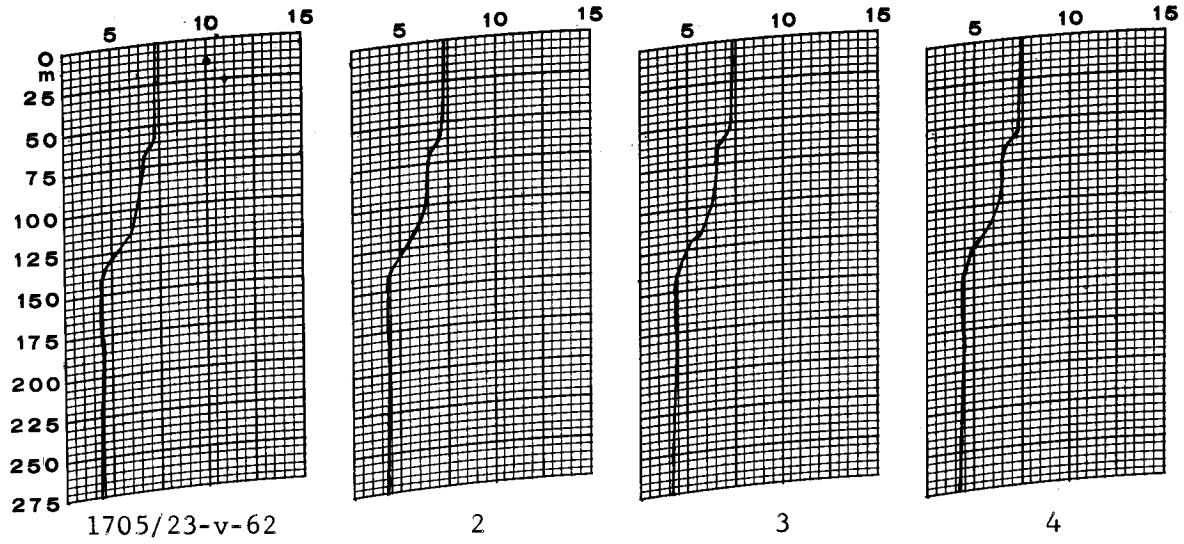
Grid OS



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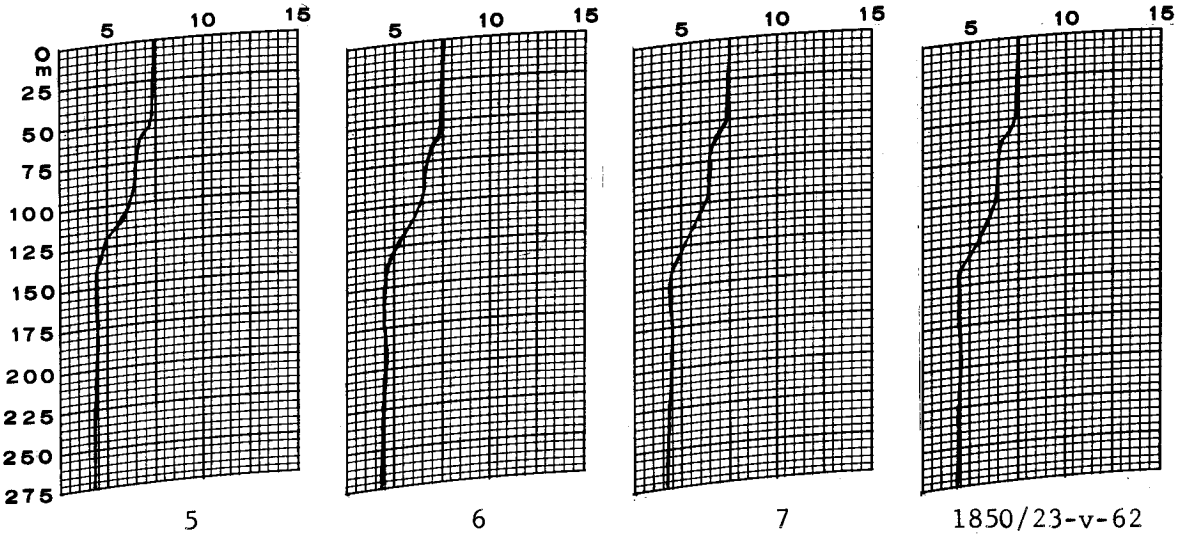

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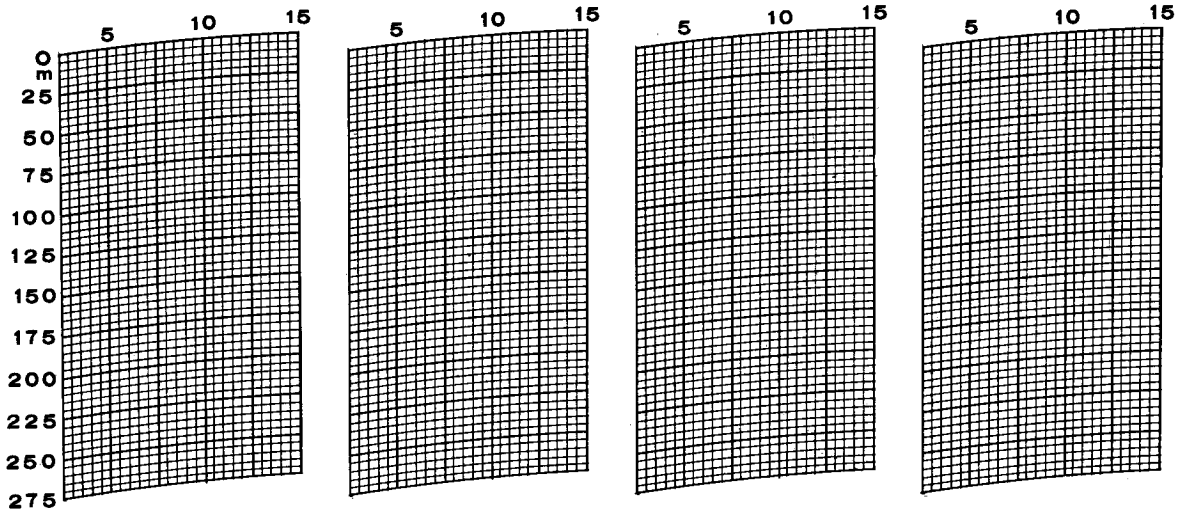

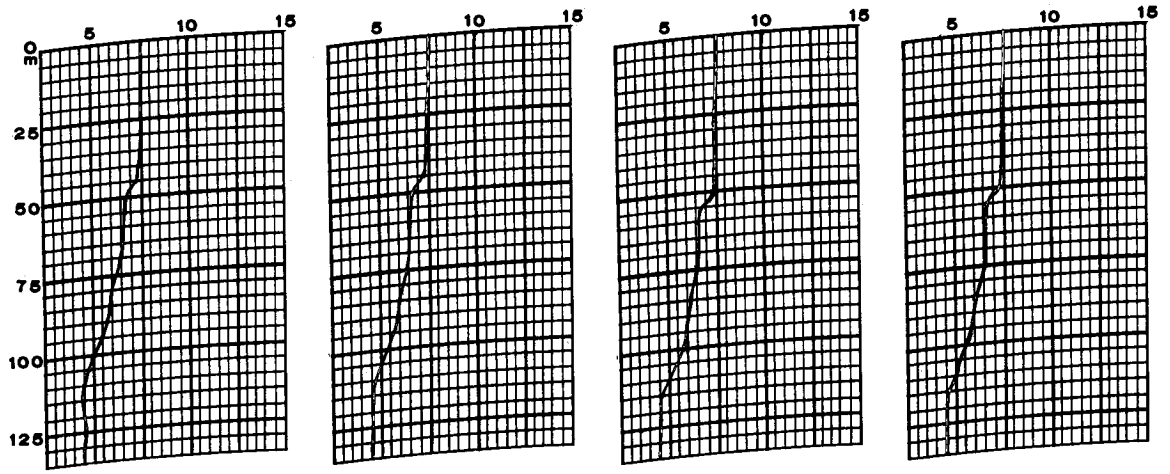

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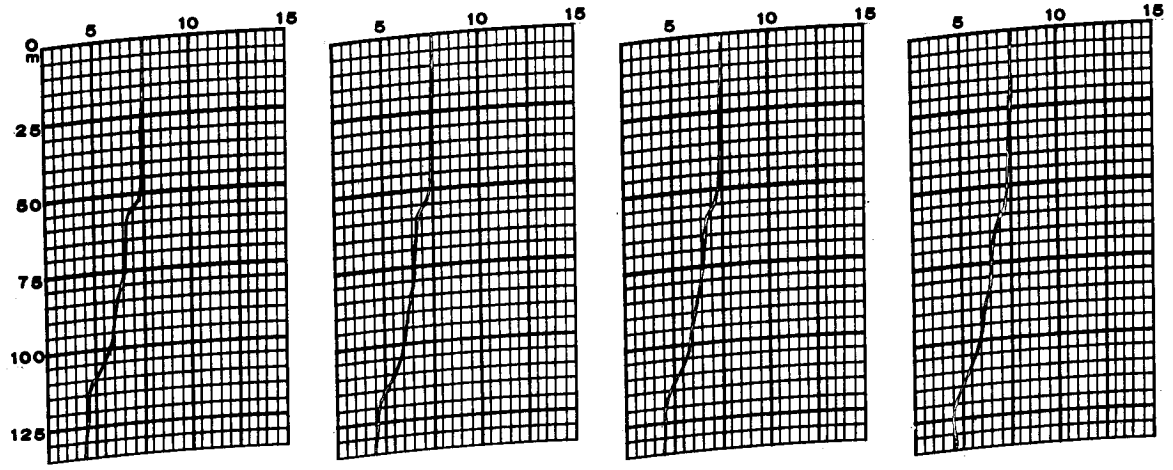

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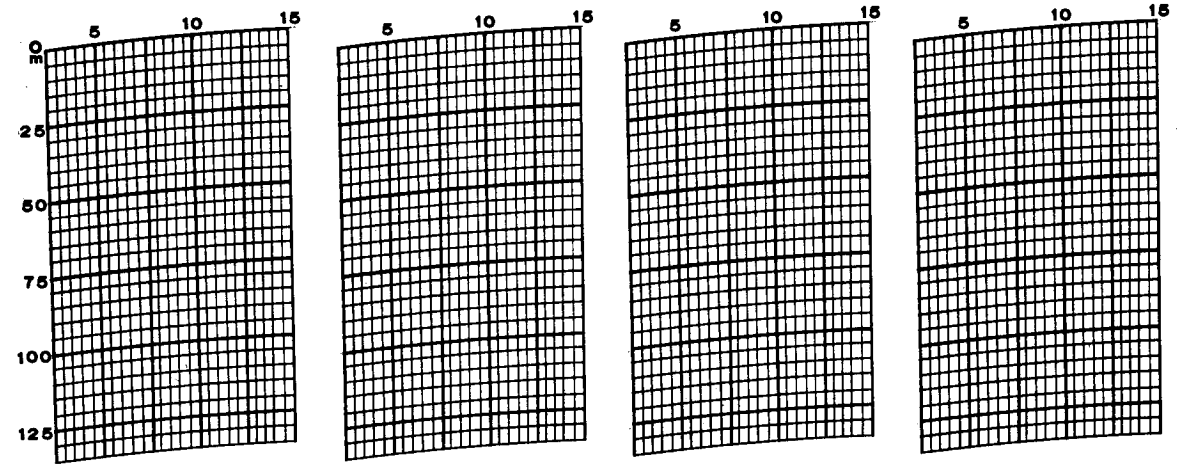
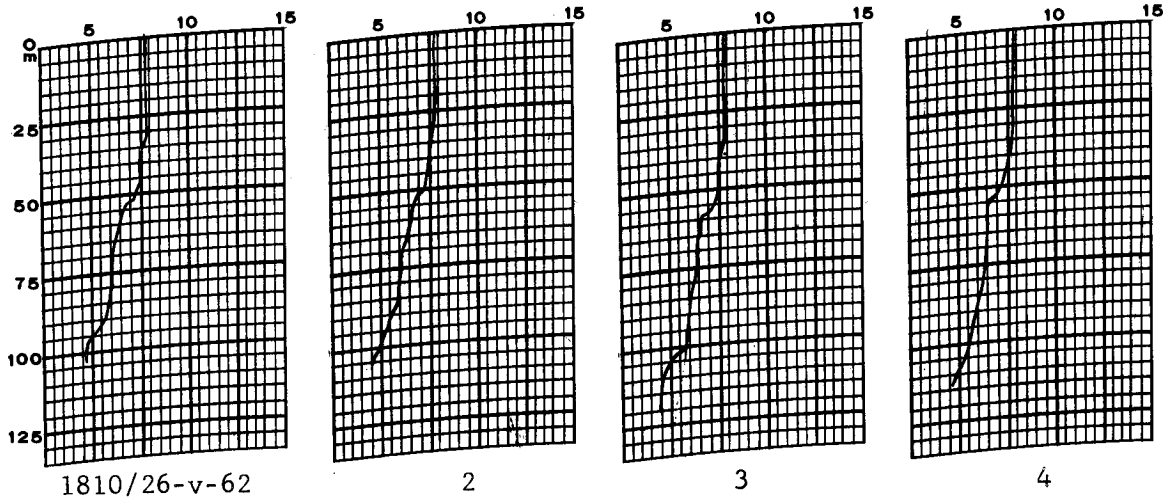
Grid 03

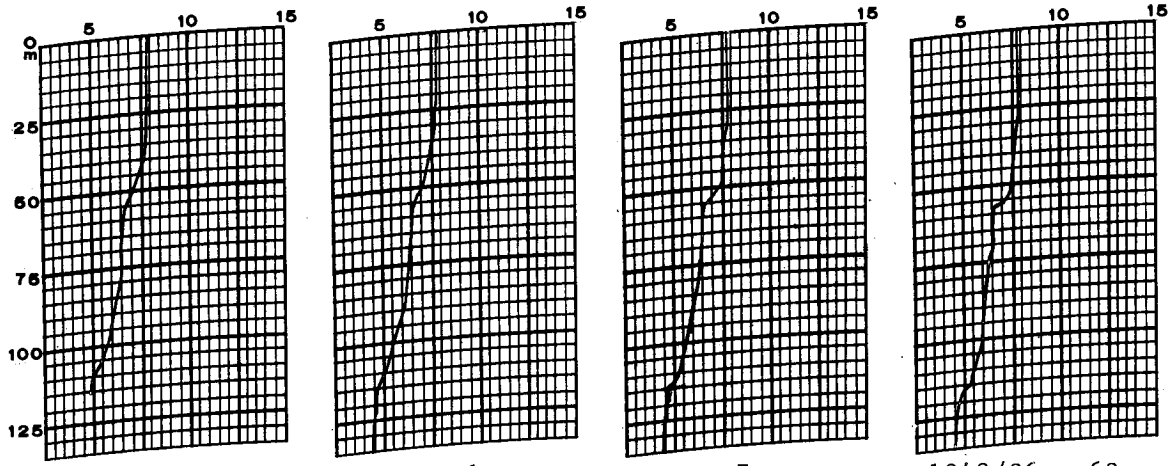


Survey P-62-2, C.C.G.S. "St. Catharines", 10-minute intervals

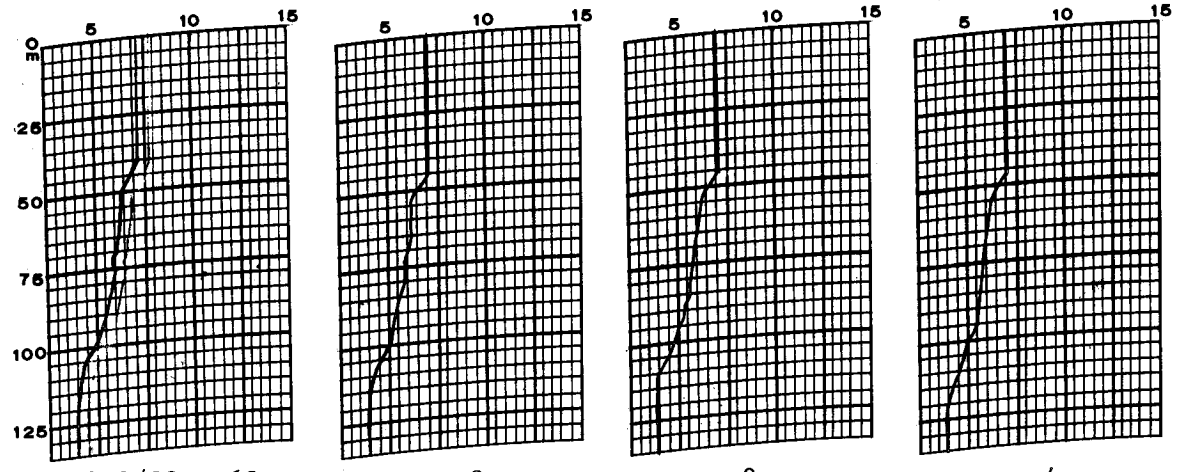


1810/26-v-62 2 3 4

3 knots speed

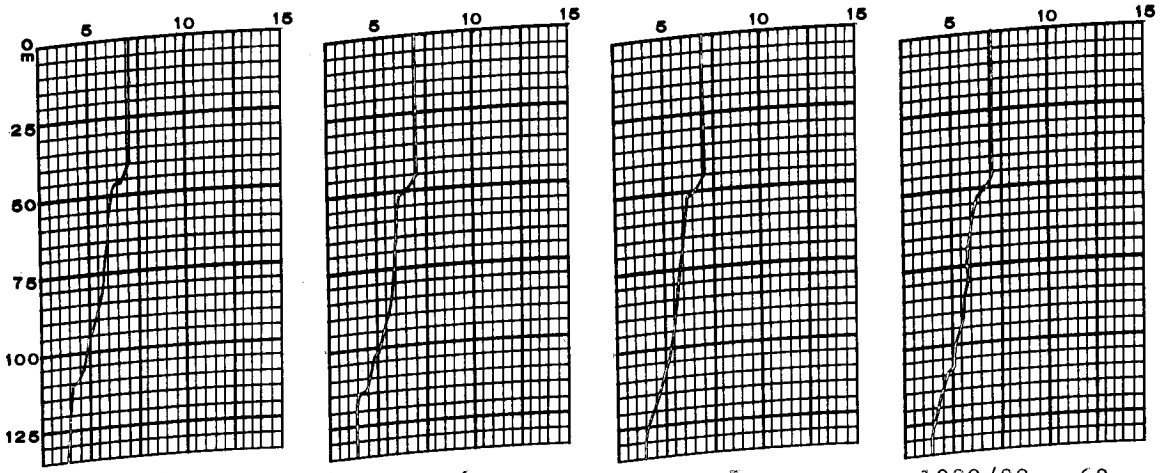


5 6 7 1940/26-v-62
Grid OS

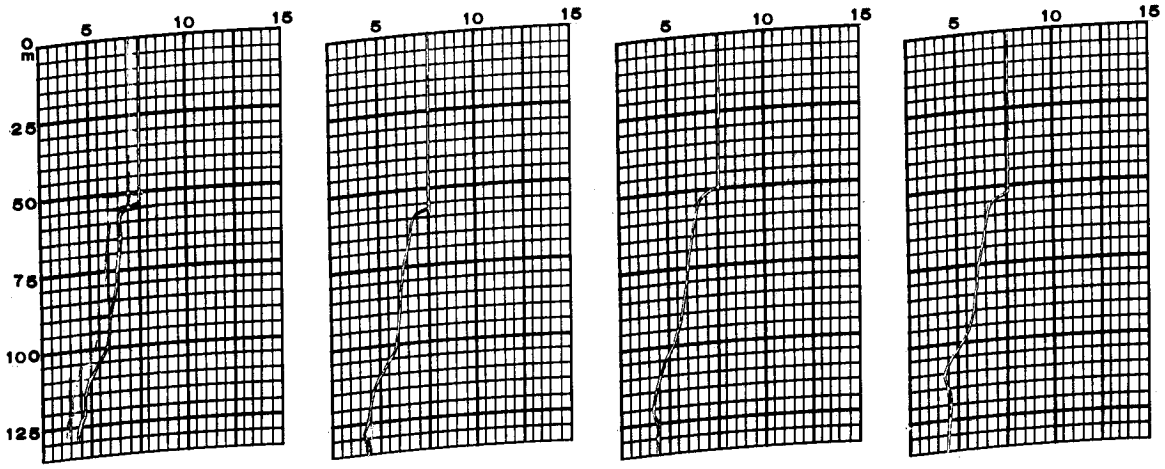


1810/28-v-62 2 3 4

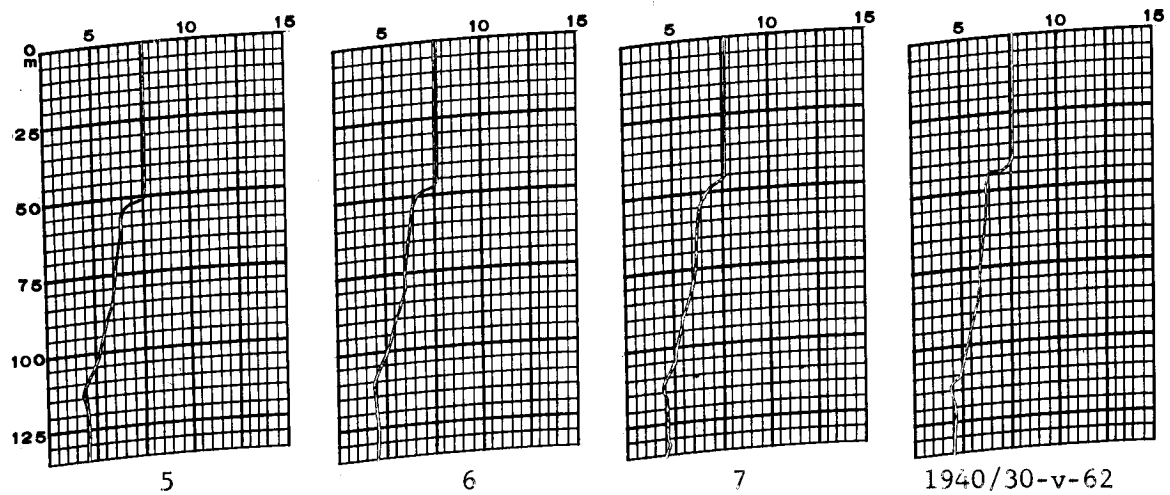
3 knots speed



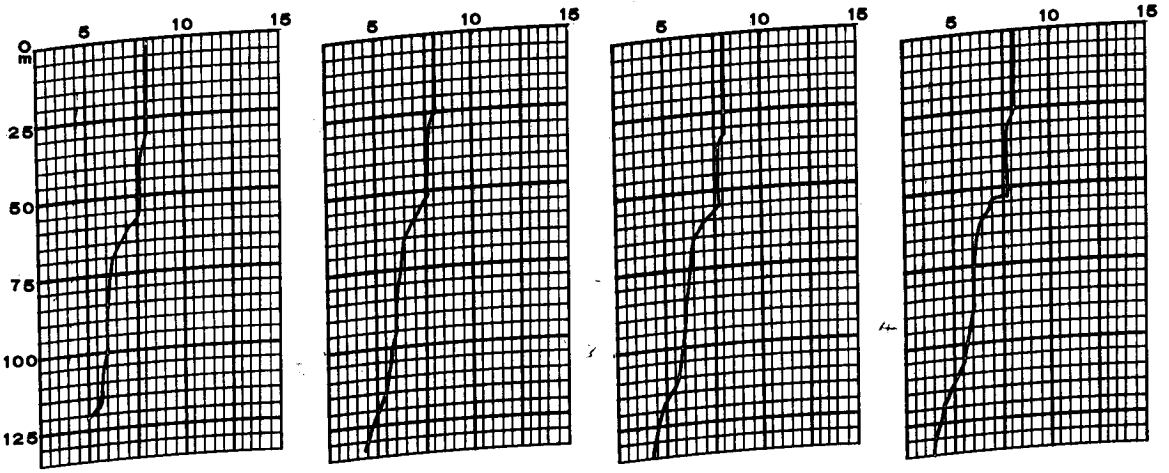
5 6 7 1920/28-v-62
Grid OS



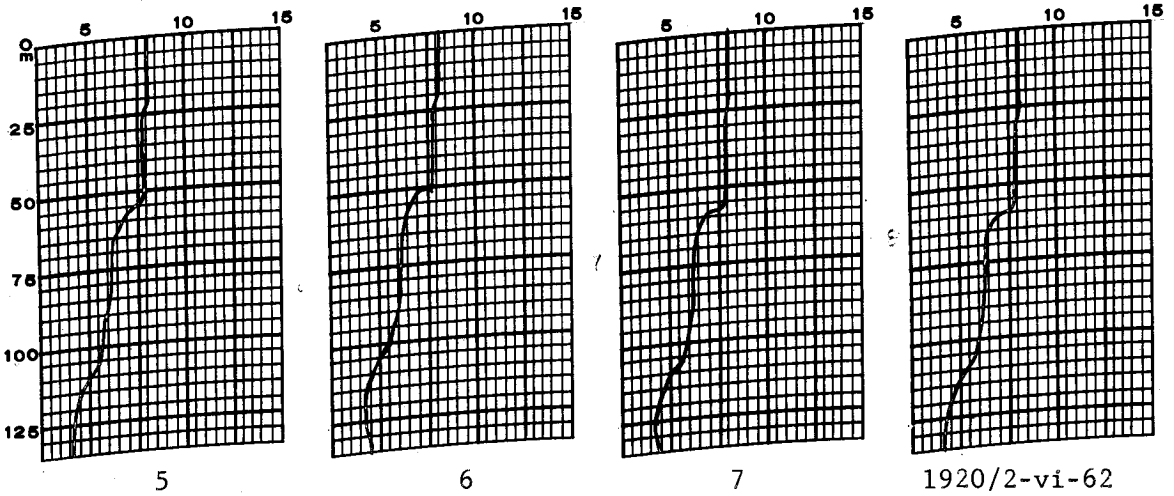
1830/30-v-62 2 3 4



5 6 7 1940/30-v-62
Grid OS



1810/2-vi-62 2 3 4



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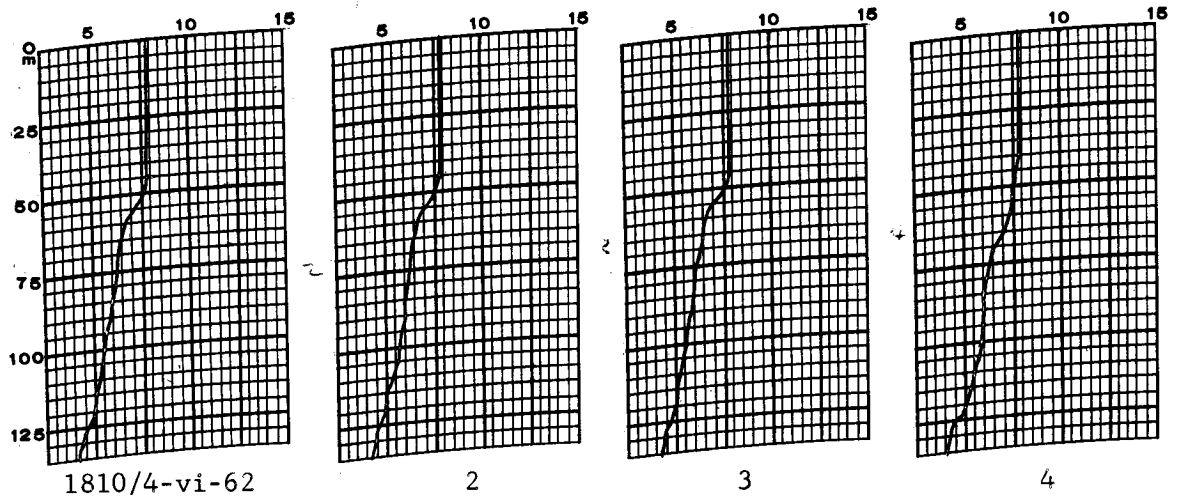
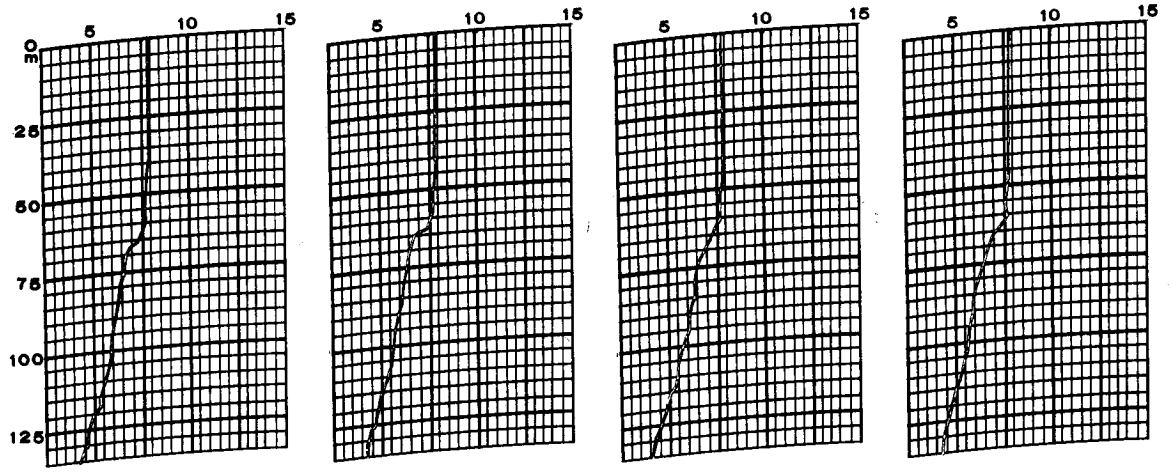
Grid OS



1810/4-vi-62 2 3 4



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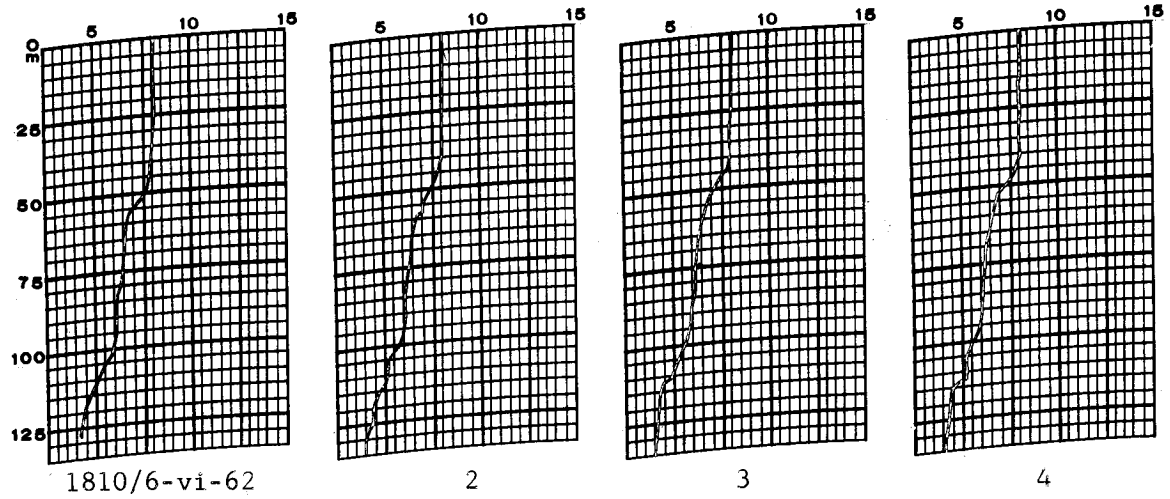
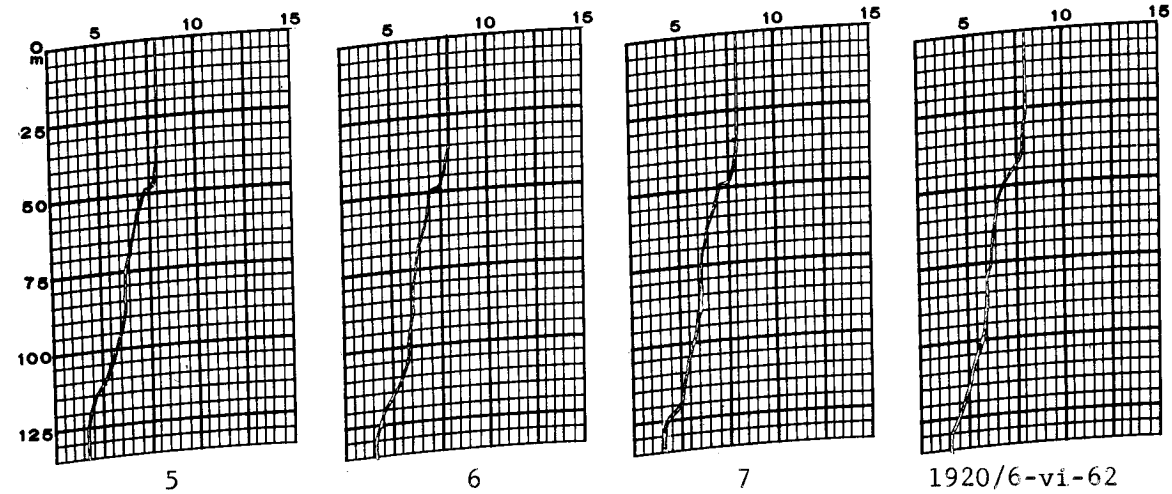
Grid OS



1810/6-vi-62 2 3 4



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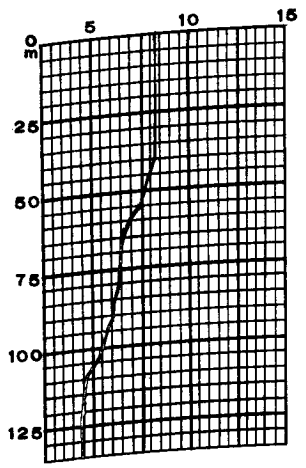
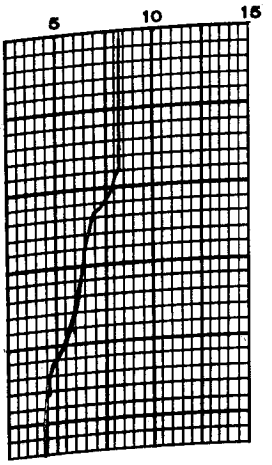
Grid OS



1820/9-vi-62



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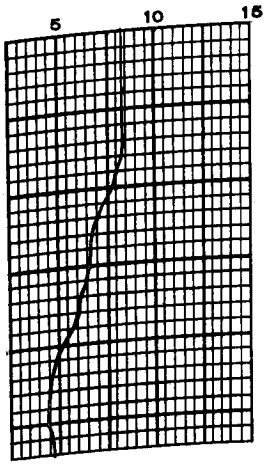

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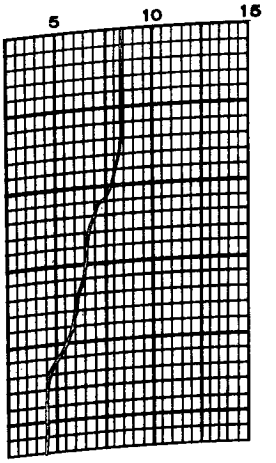

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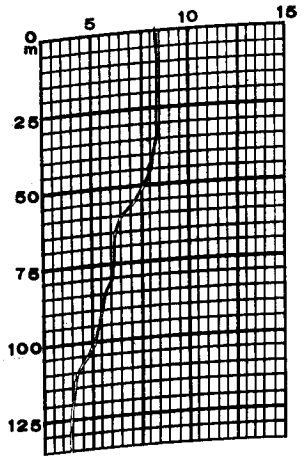

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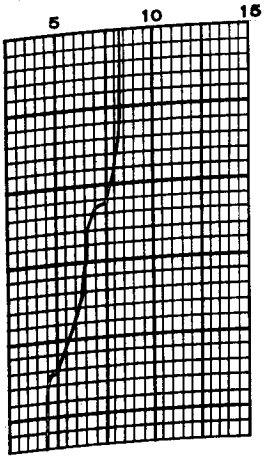

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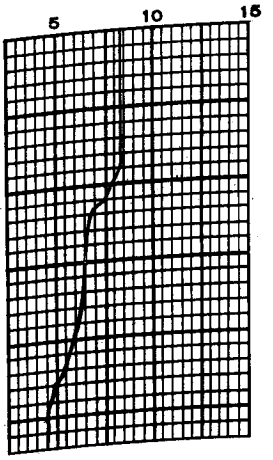
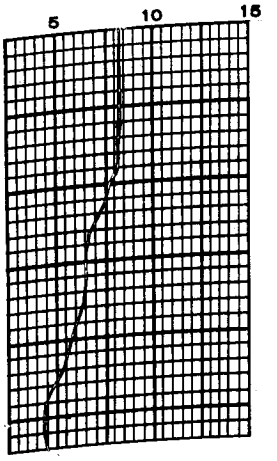
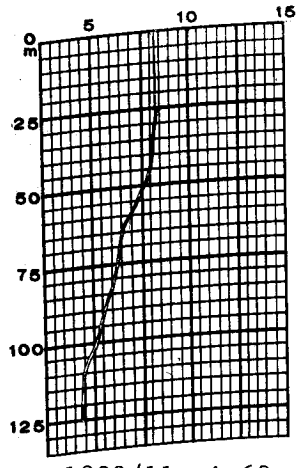


1920/9-vi-62
Grid OS



1940/9-vi-62
Grid OS



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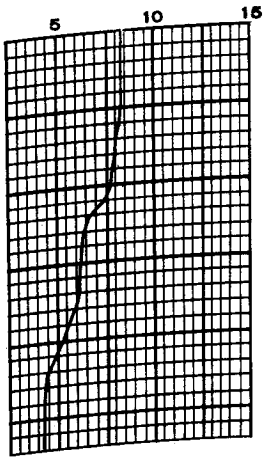

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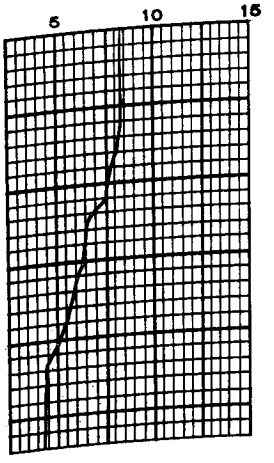

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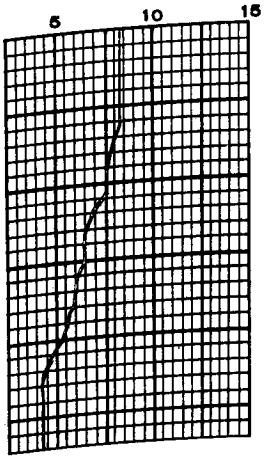

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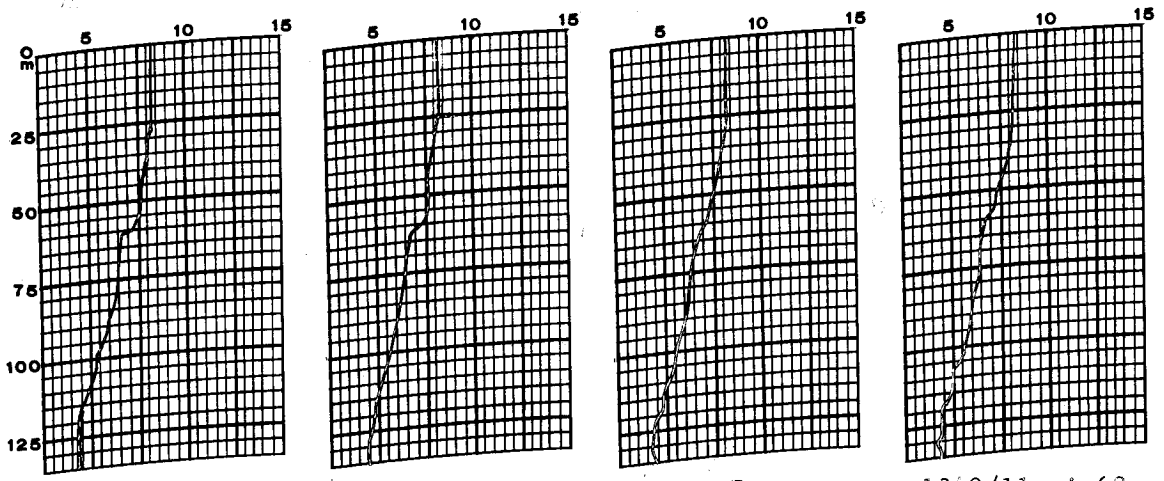

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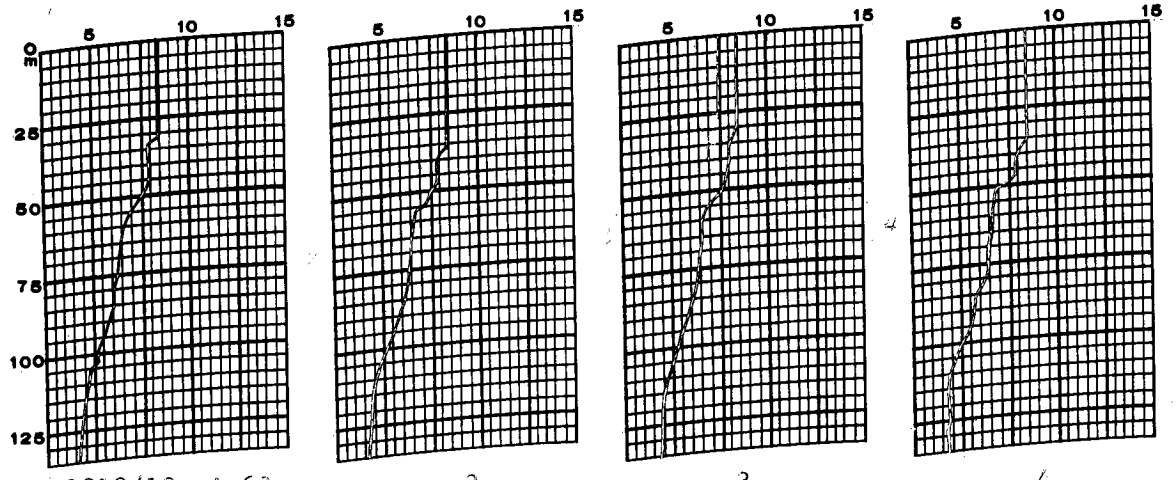
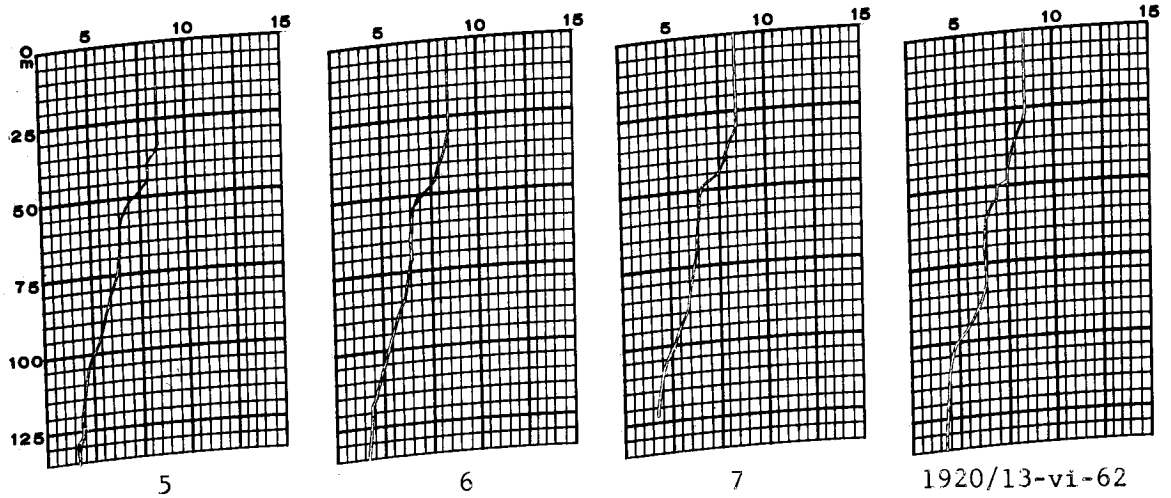


1810/13-vi-62 2 3 4



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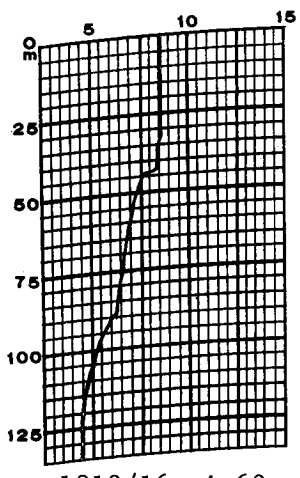
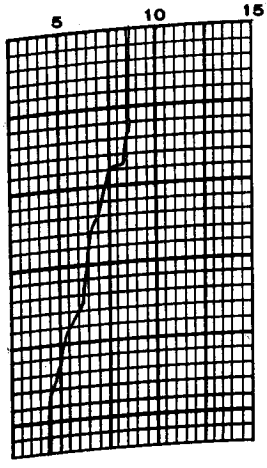
Grid OS



1810/16-vi-62



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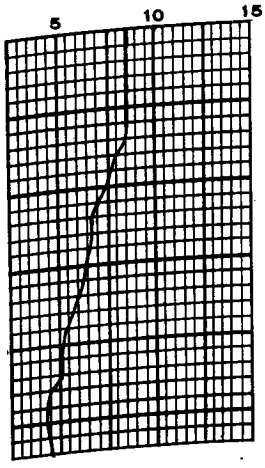

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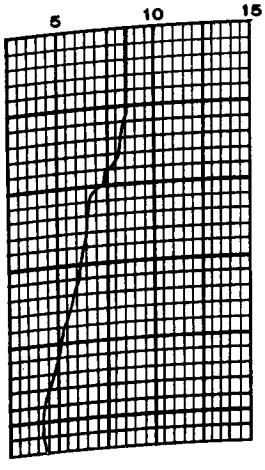

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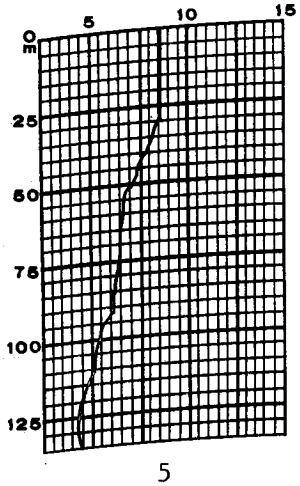

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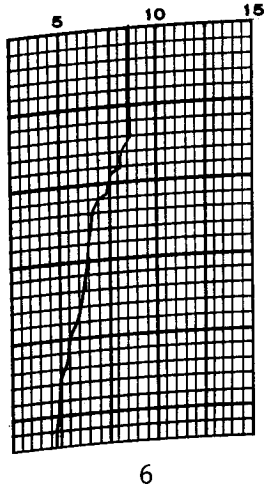

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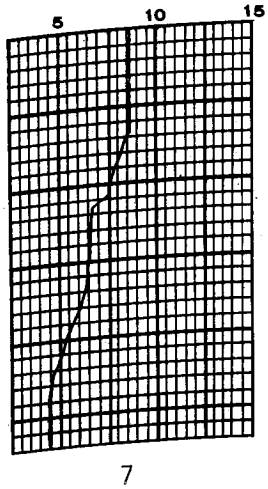

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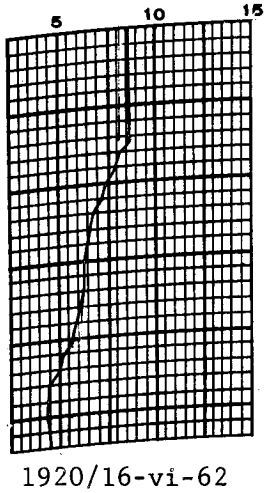
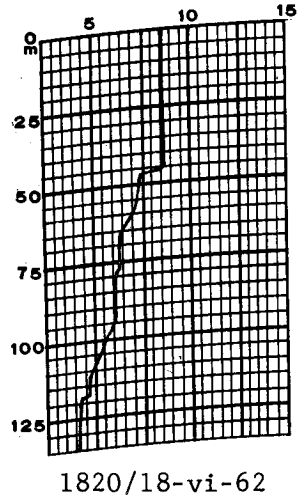
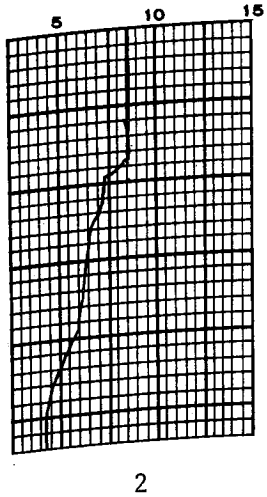


1920/16-vi-62
Grid OS



1820/18-vi-62



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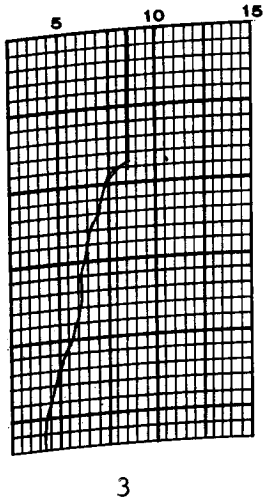

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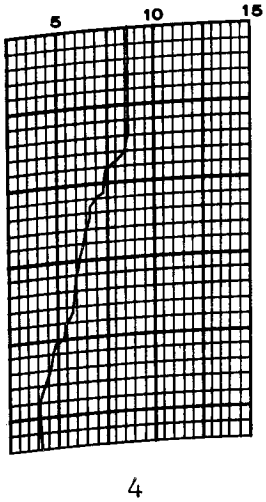

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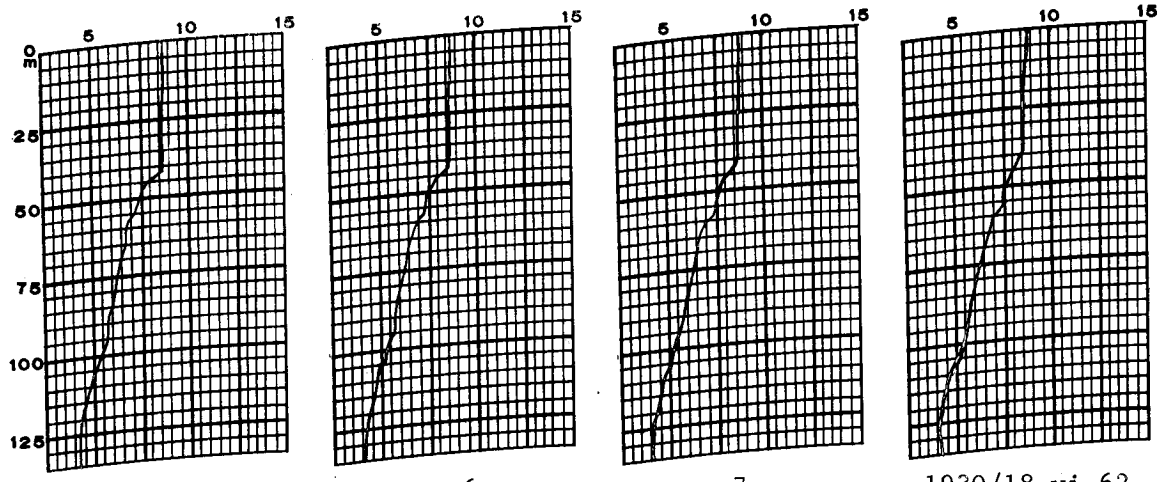
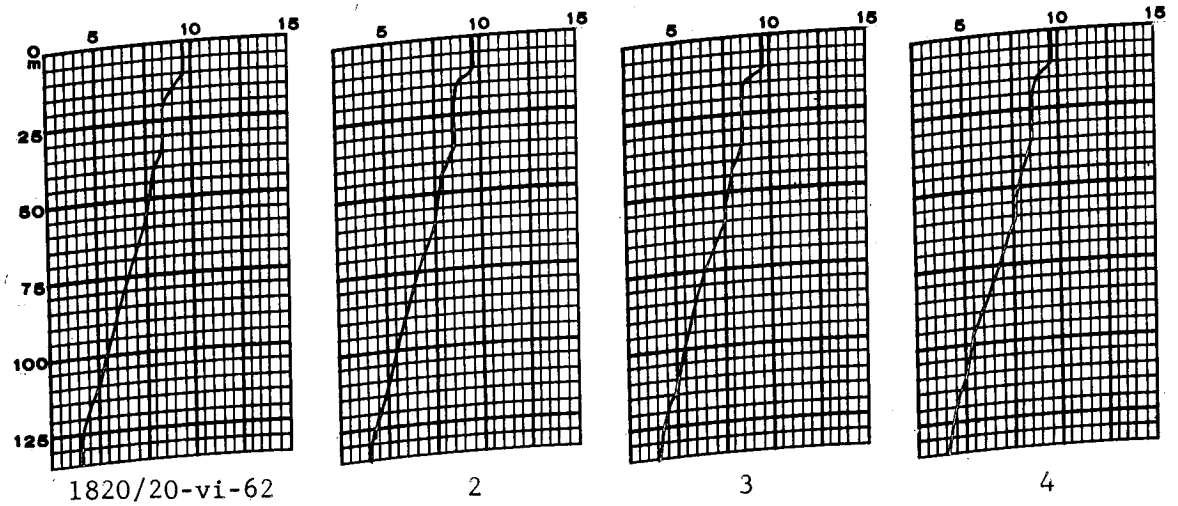
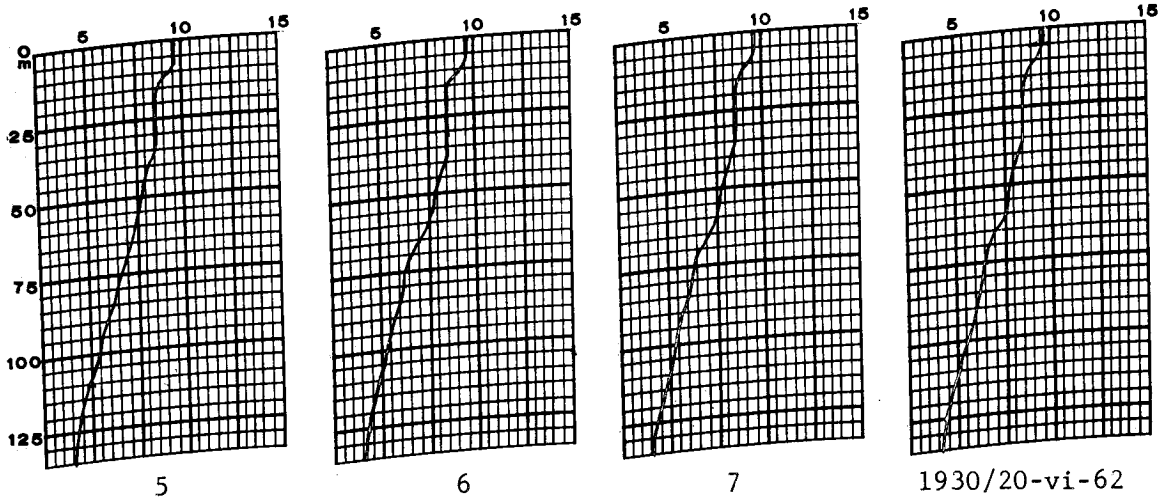


5 6 7 1930/18-vi-62
Grid OS



1820/20-vi-62 2 3 4



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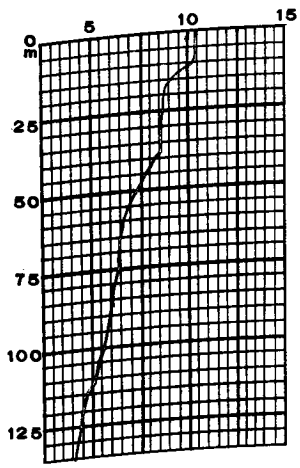
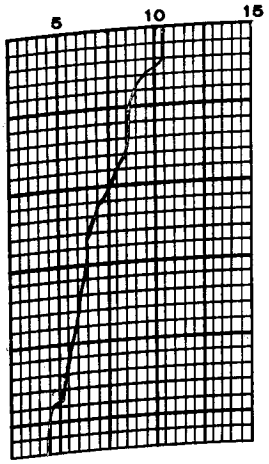
Grid KS



1810/23-vi-62



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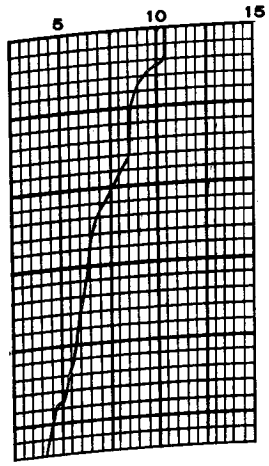

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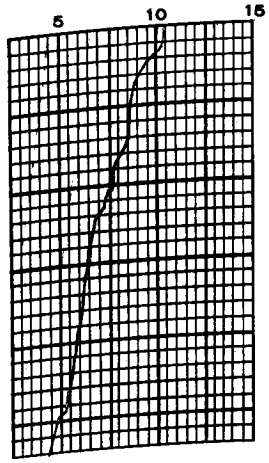

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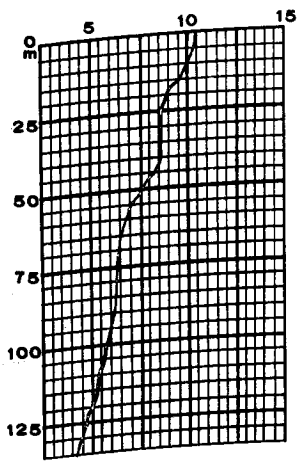

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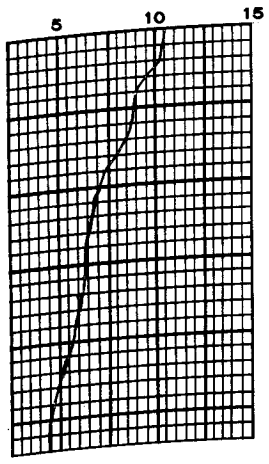

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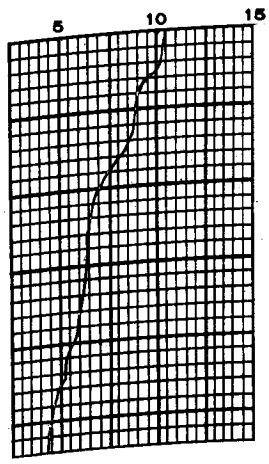

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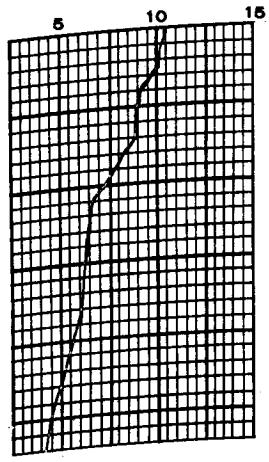
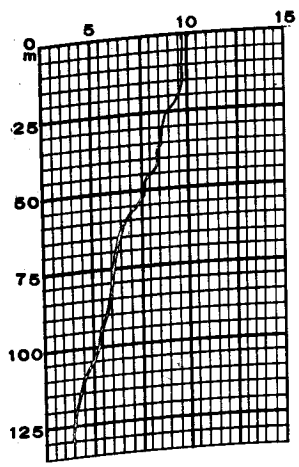
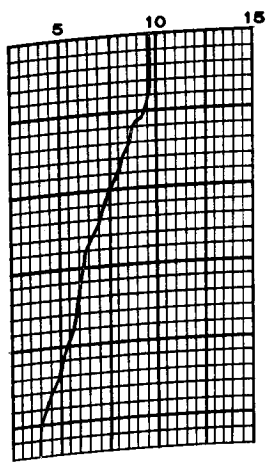


1920/23-vi-62
Grid OS



1840/25-vi-62



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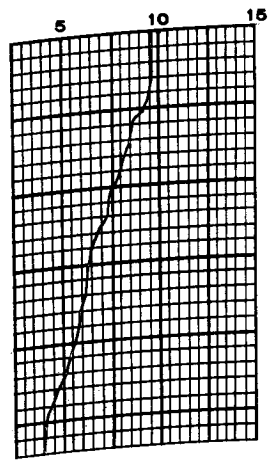

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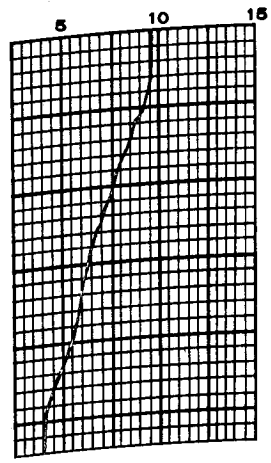

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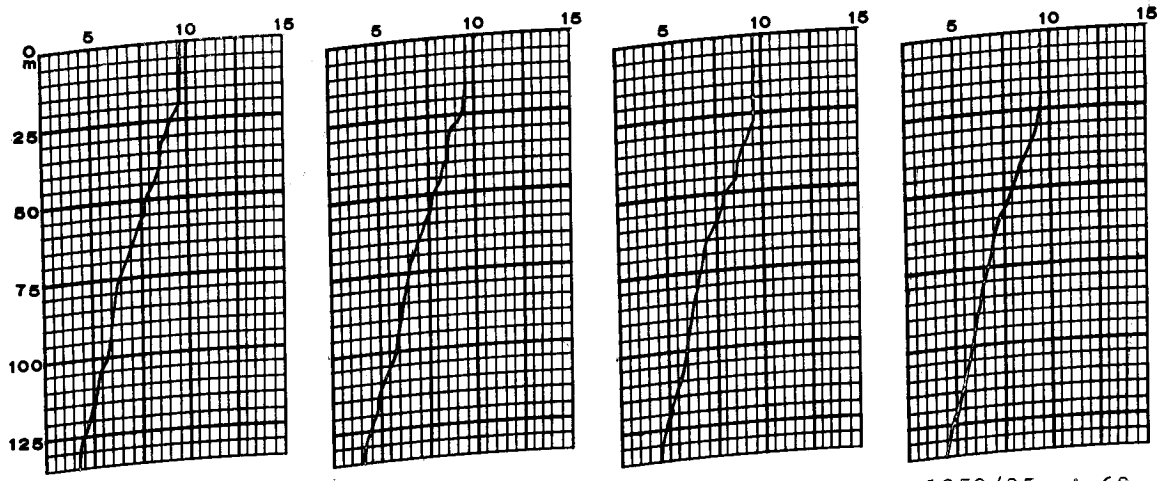

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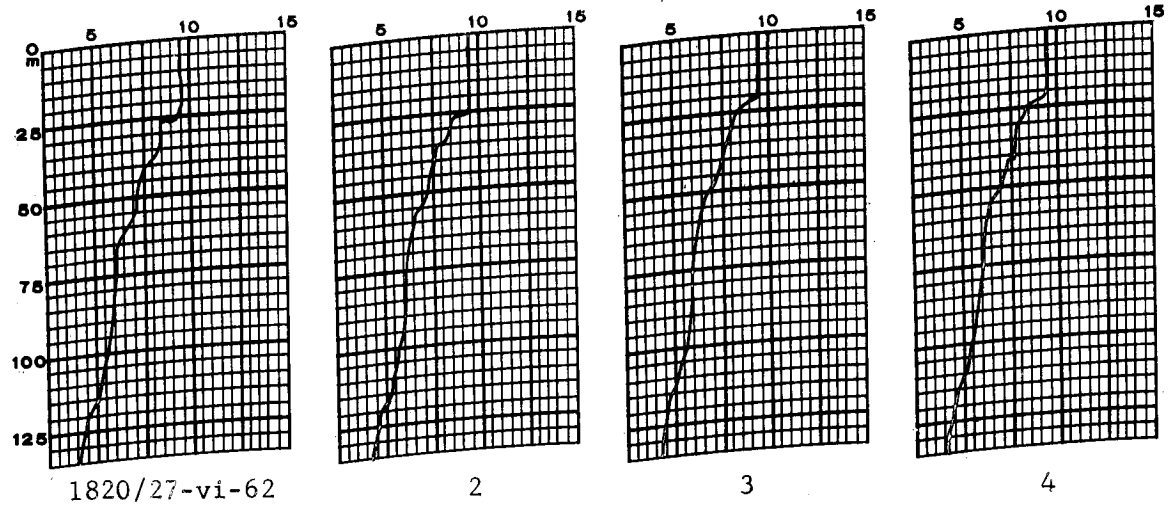
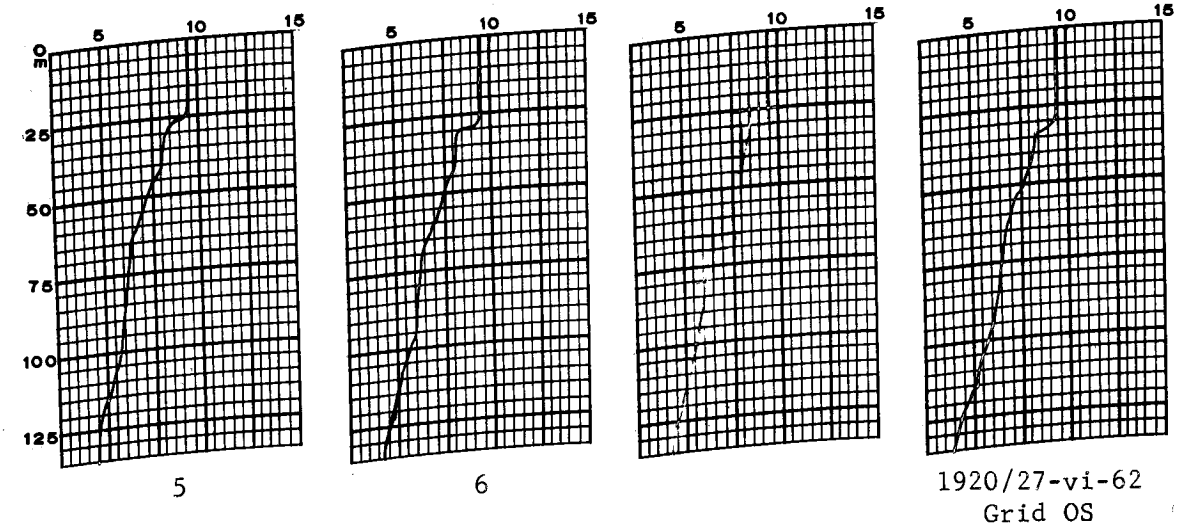
Grid OS

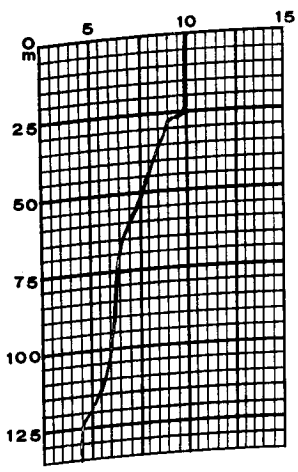


1820/27-vi-62 2 3 4

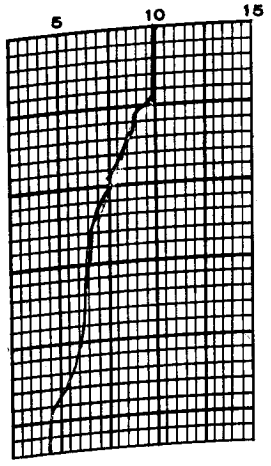


5 6 1920/27-vi-62
Grid OS

Patrol No. 52, C.C.G.S. "Stonetown", 10-minute intervals



1710/30-vi-62



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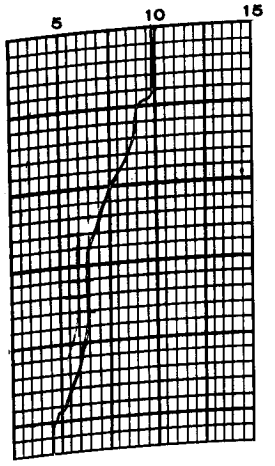

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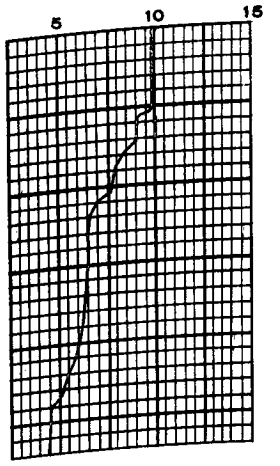

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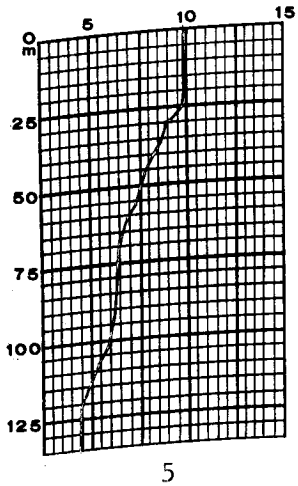

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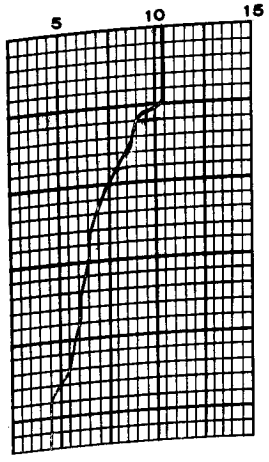

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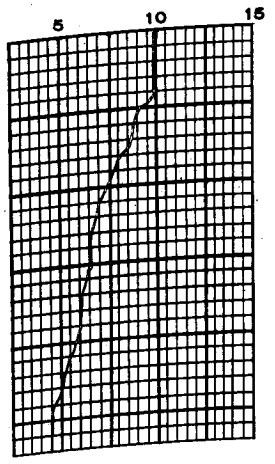

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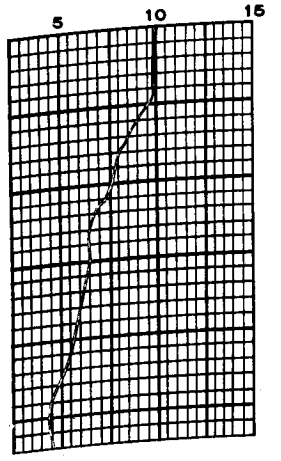
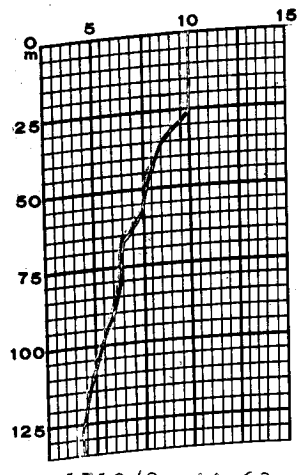
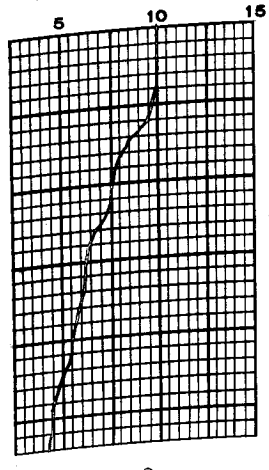


1820/30-vi-62
Grid O.



1710/2-vii-62



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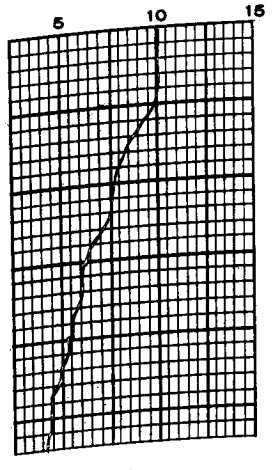

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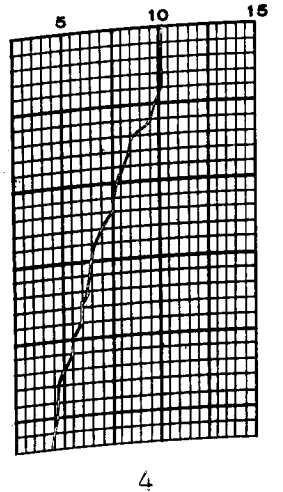

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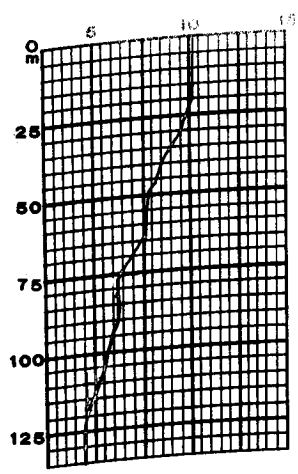

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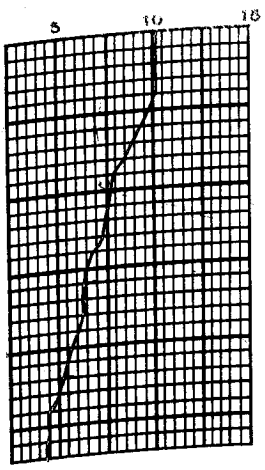

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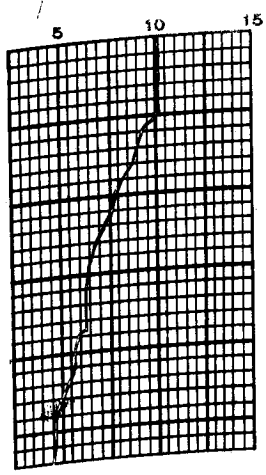
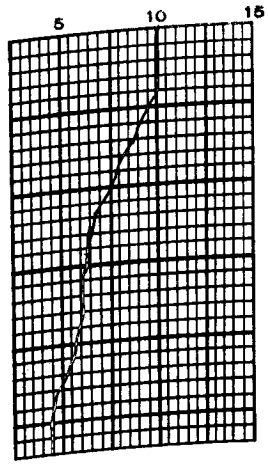
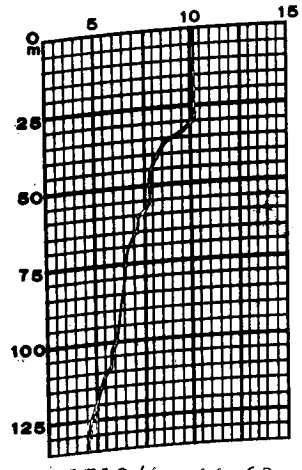


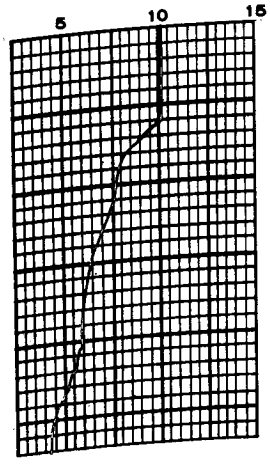
1810/2-vii-62



1830/2-vii-62
Grid OS



1710/4-vii-62



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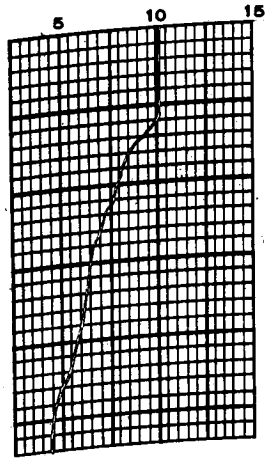

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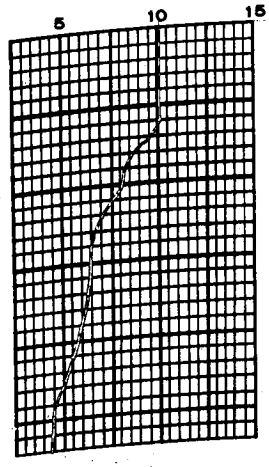

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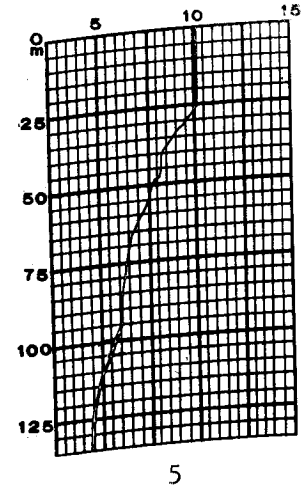

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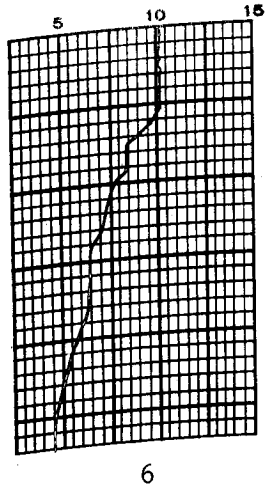

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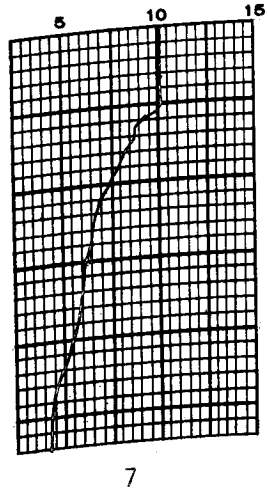

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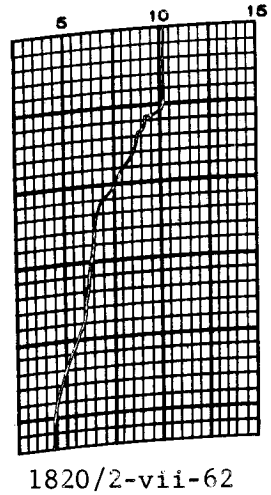

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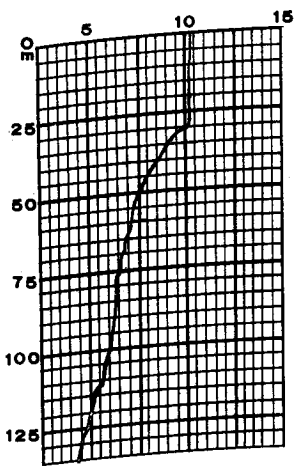
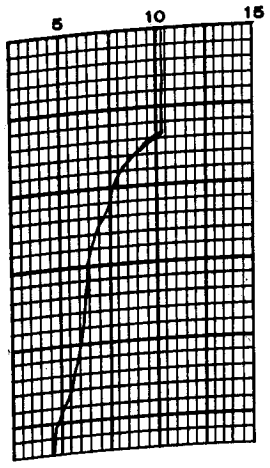
Grid OS



1710/6-vii-62



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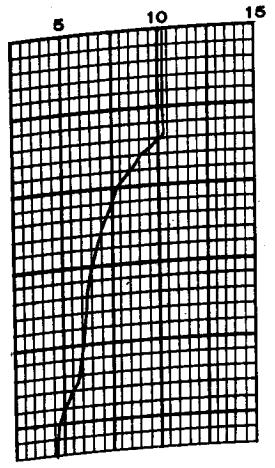

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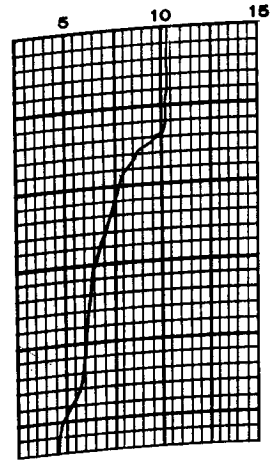

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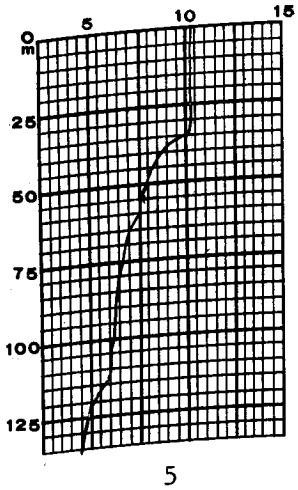

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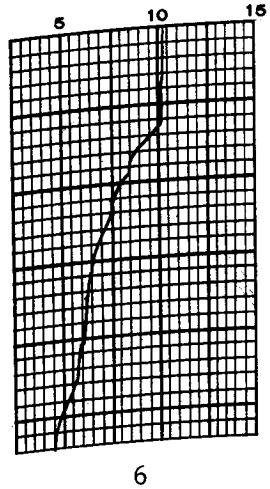

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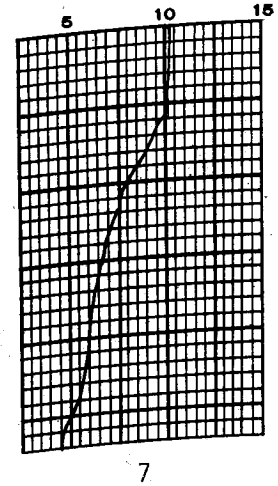

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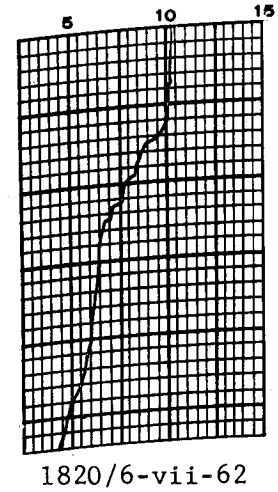

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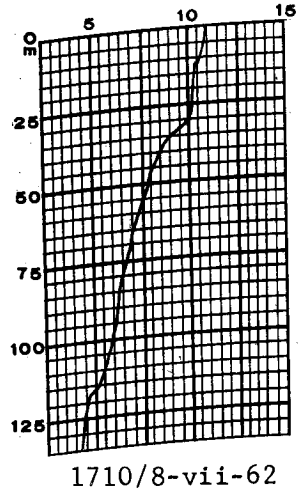

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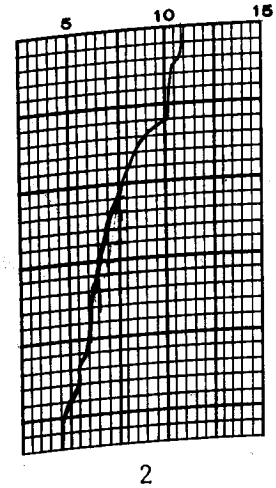

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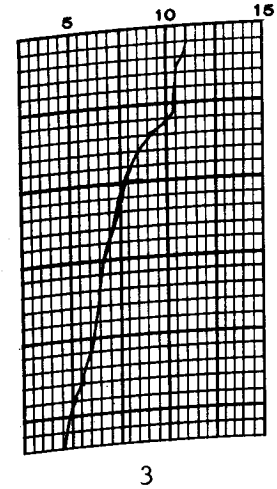

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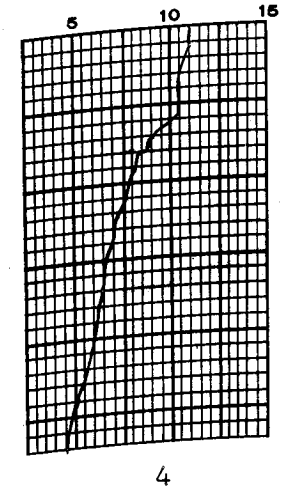

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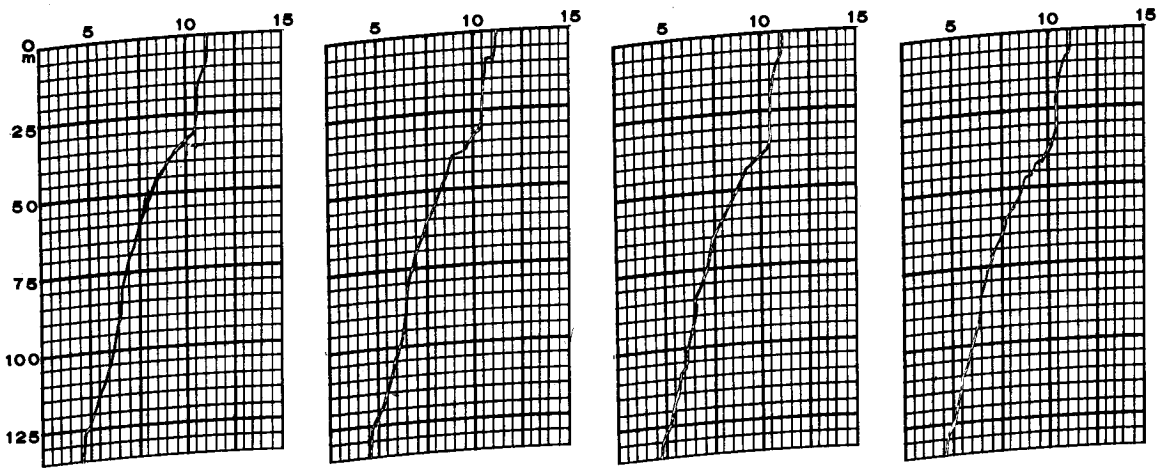

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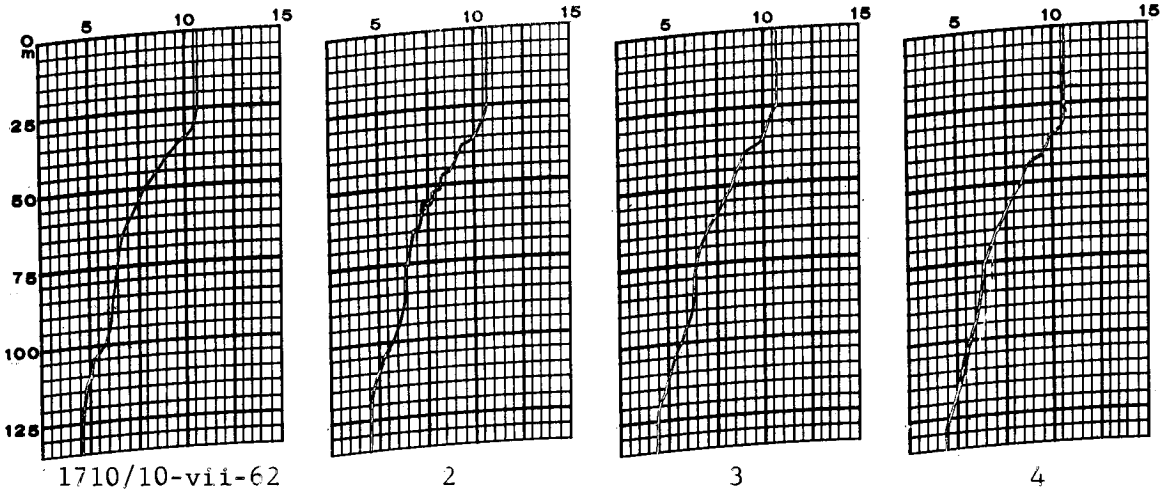
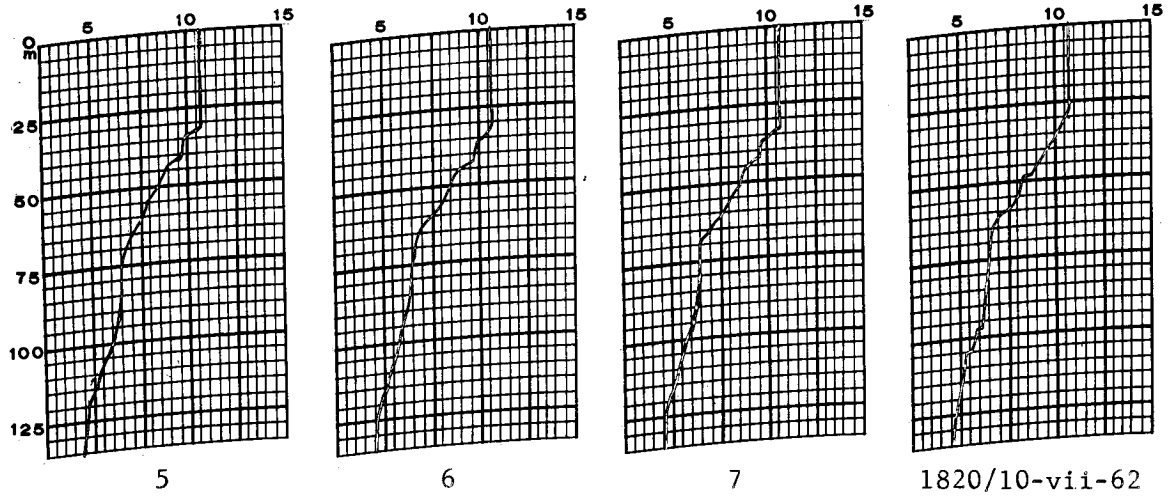


1710/10-vii-62 2 3 4



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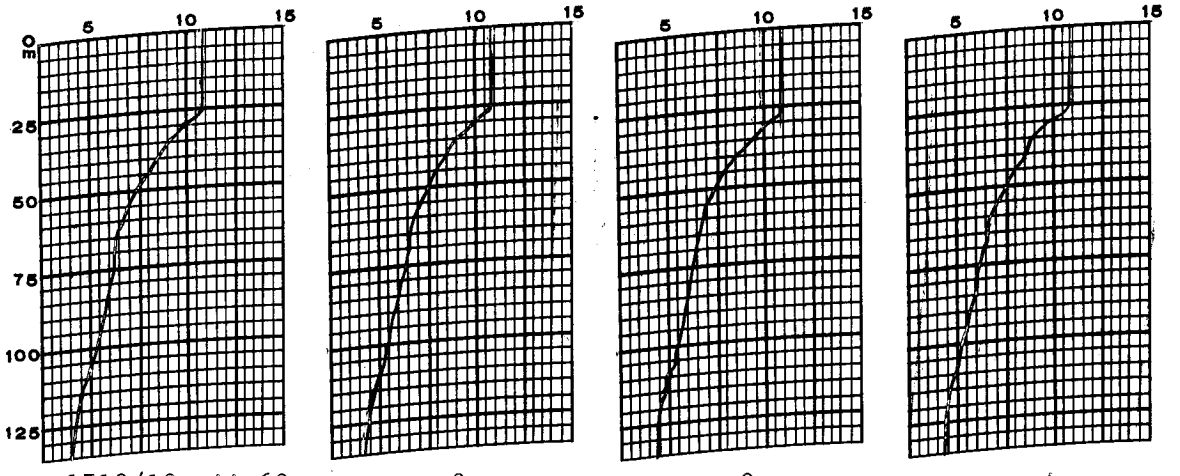

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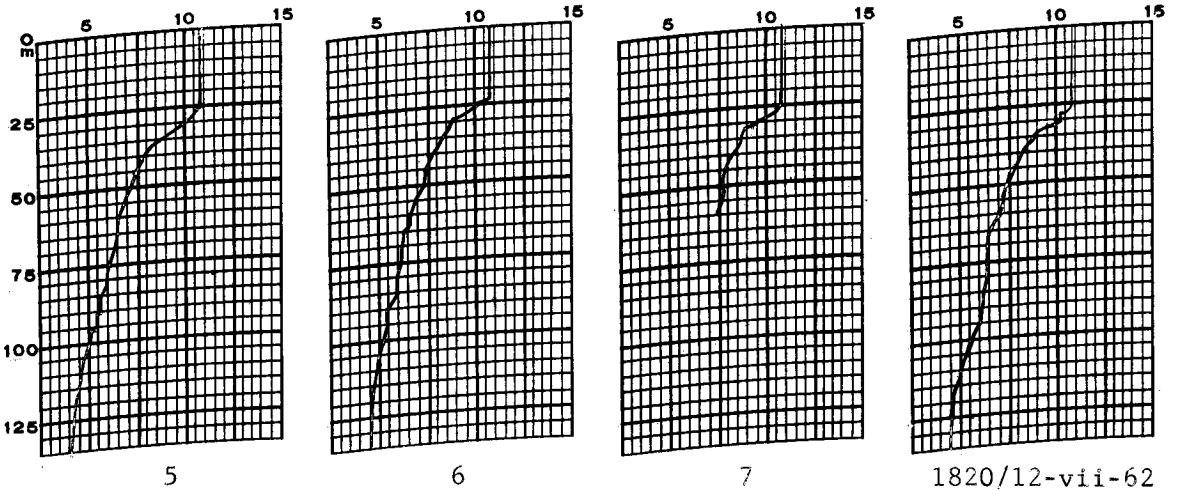

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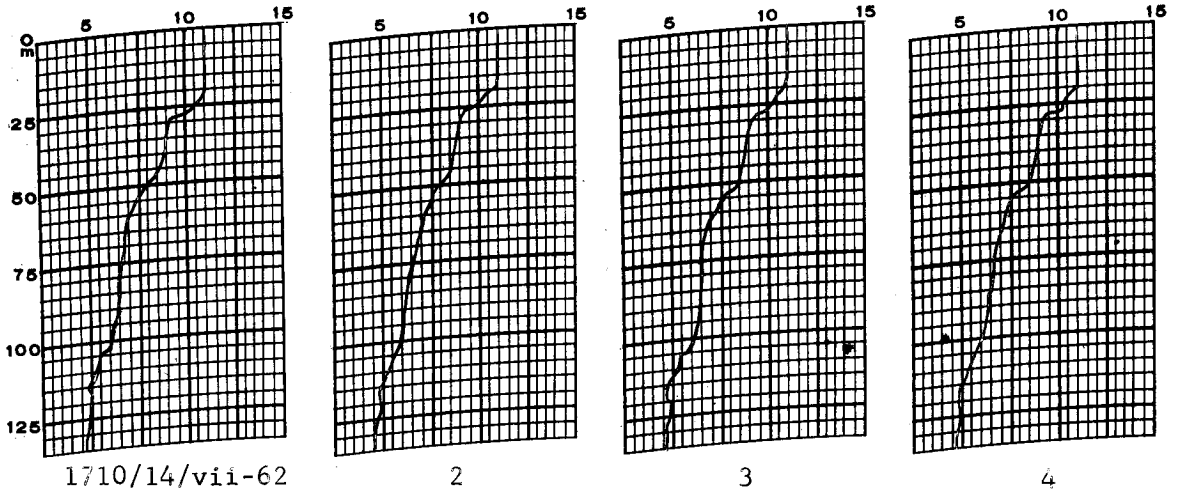

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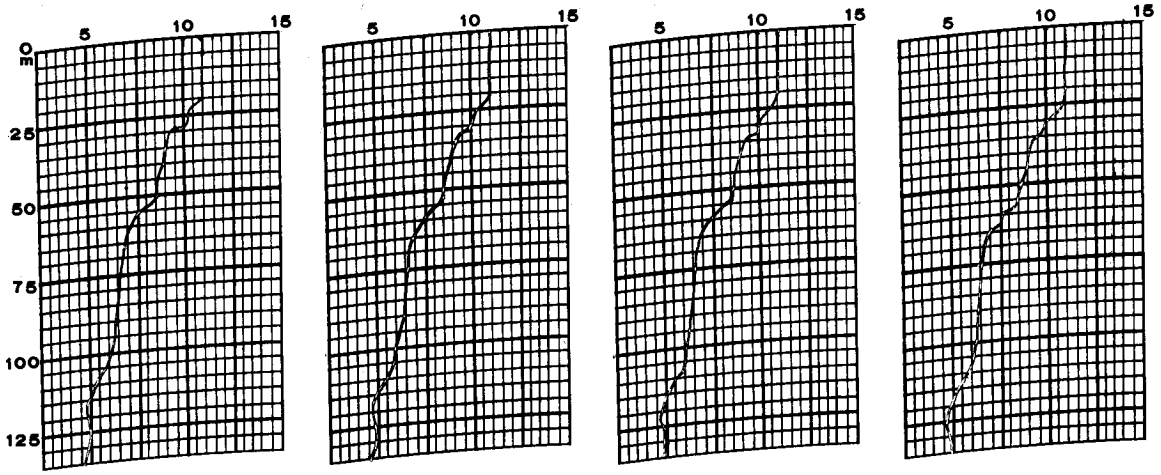

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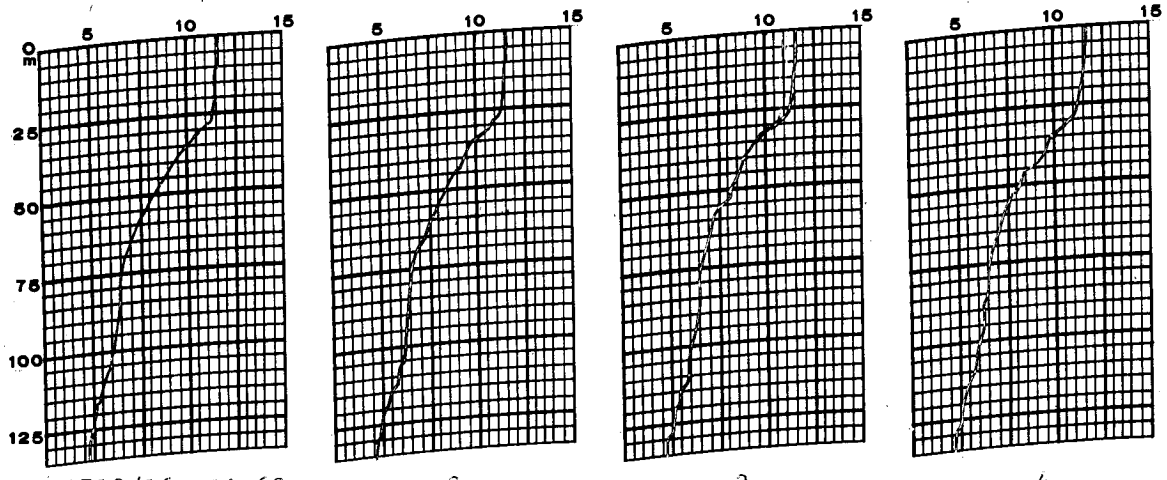

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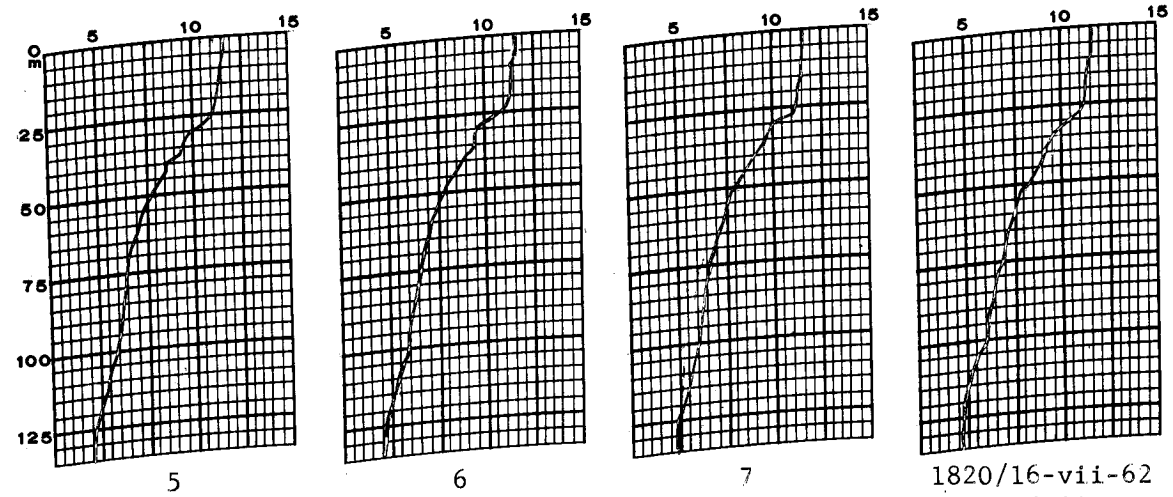

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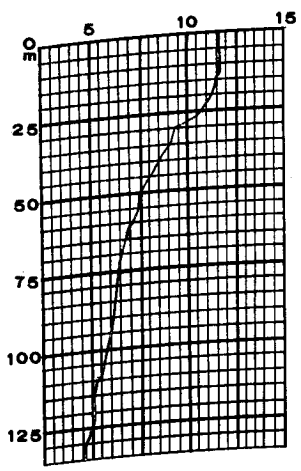

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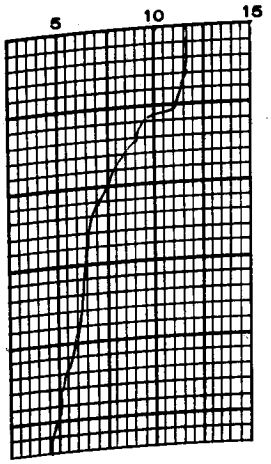

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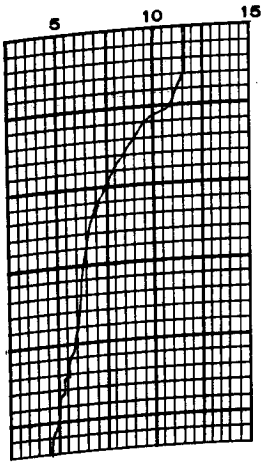

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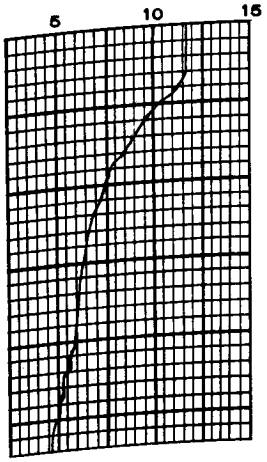

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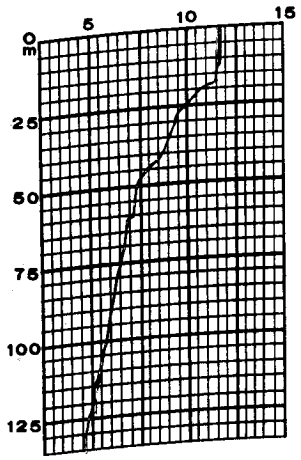

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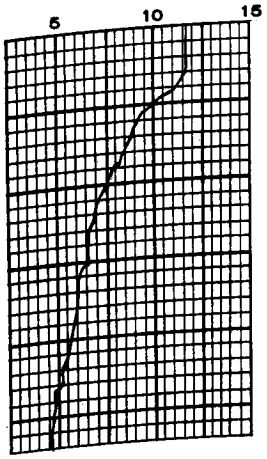

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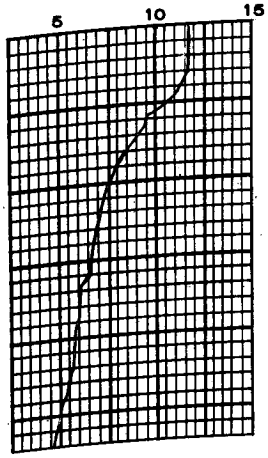

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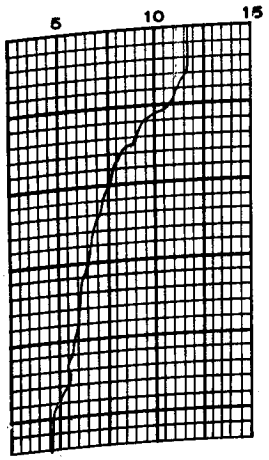

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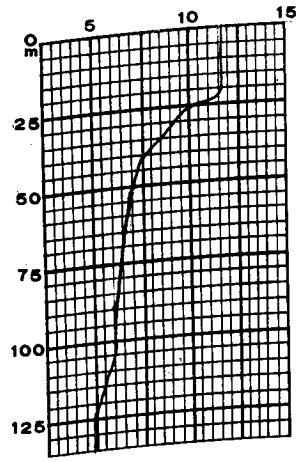
Grid OS



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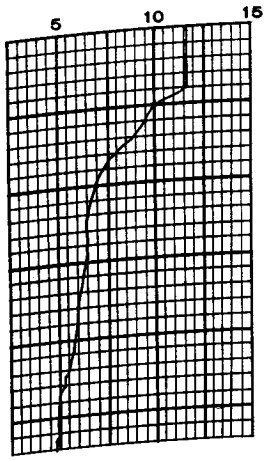

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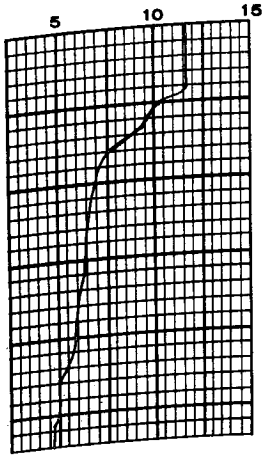

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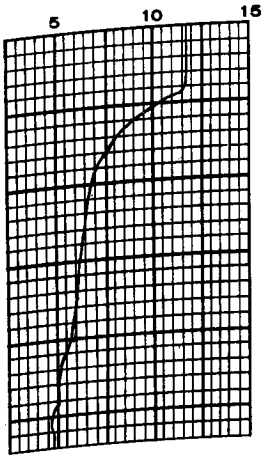

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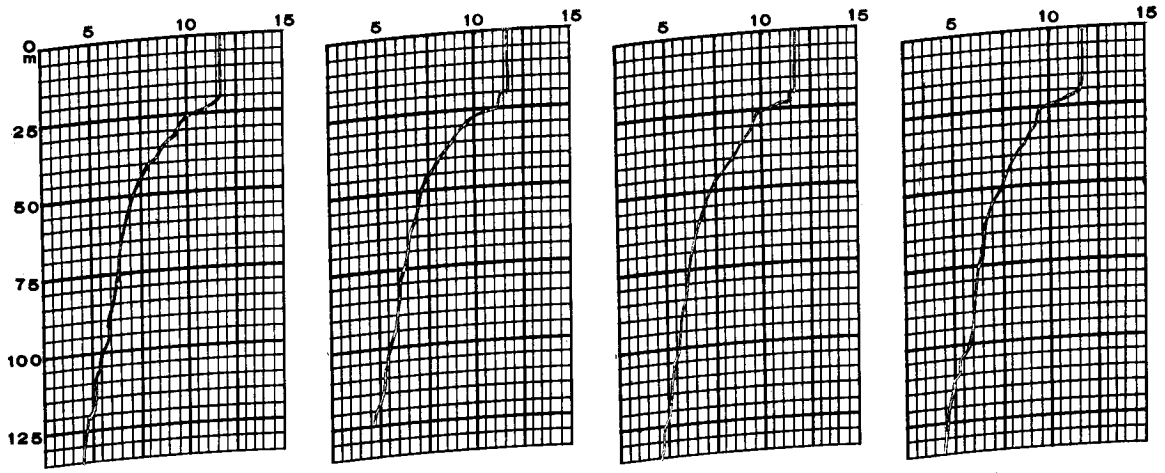

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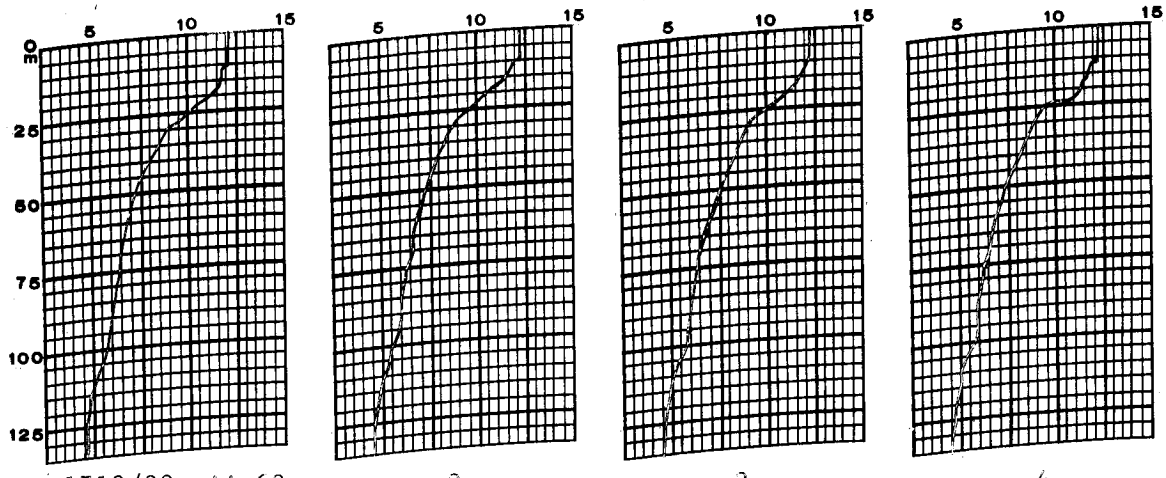

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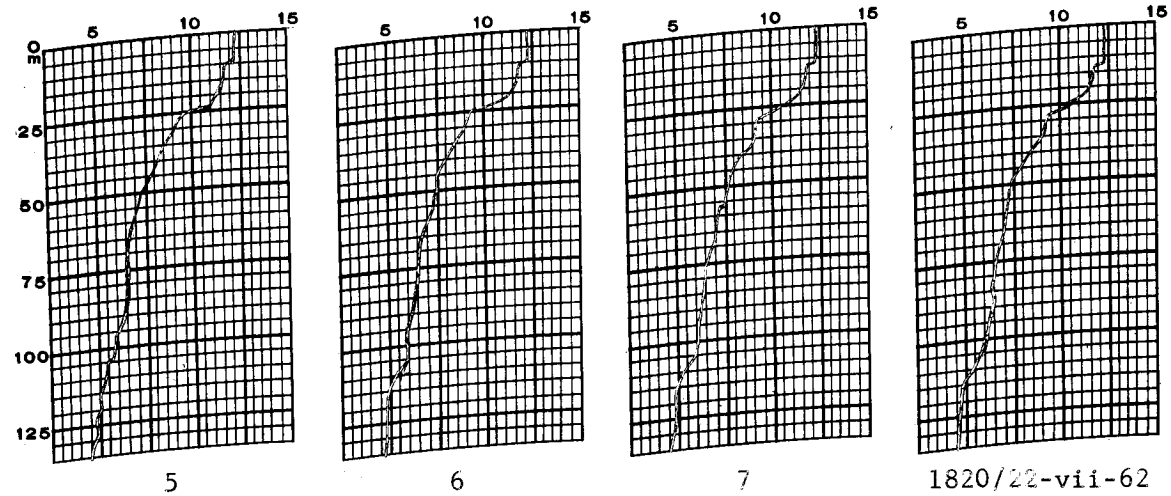

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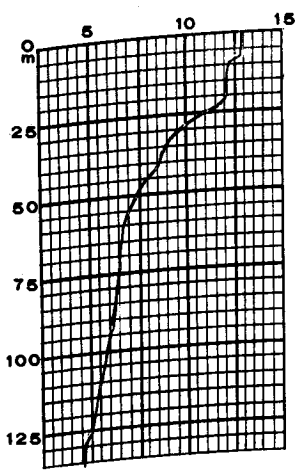

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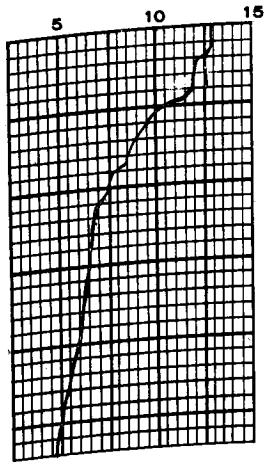

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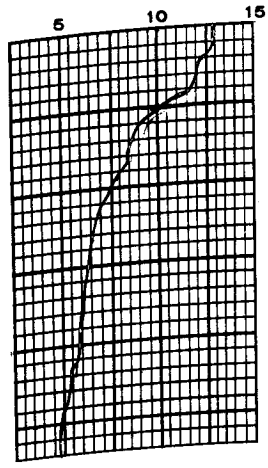

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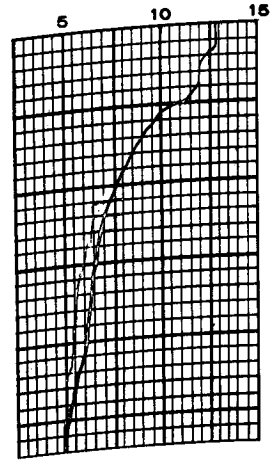

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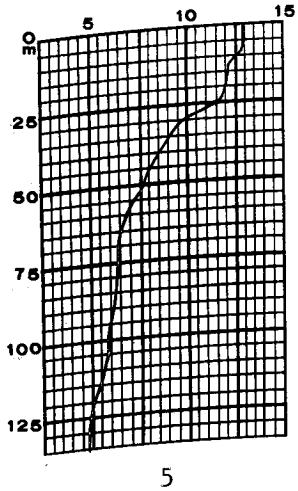

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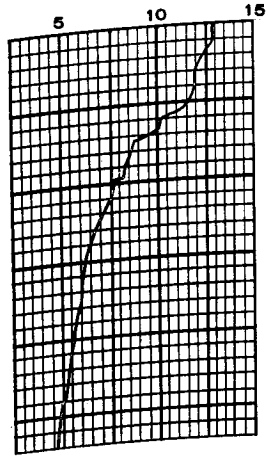

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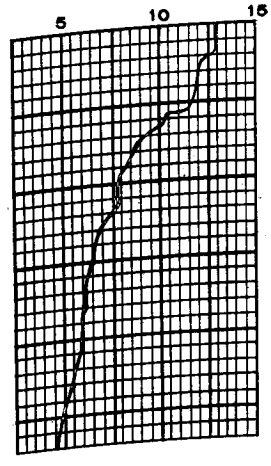

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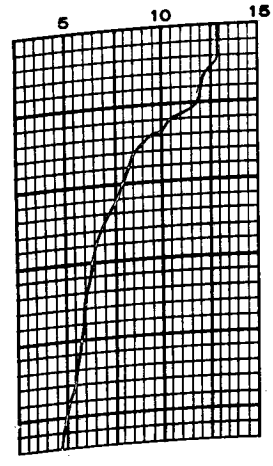

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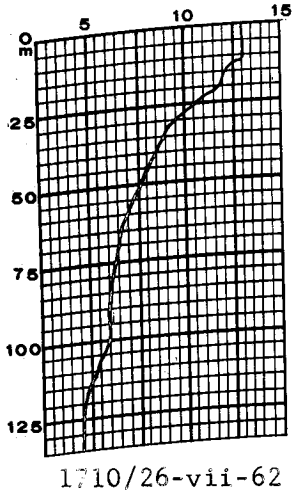
Grid 08



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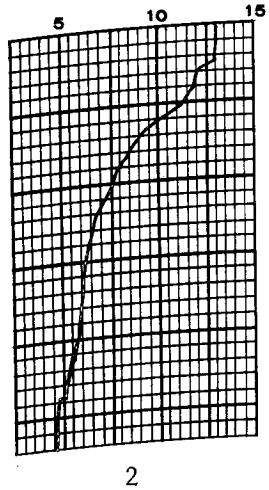

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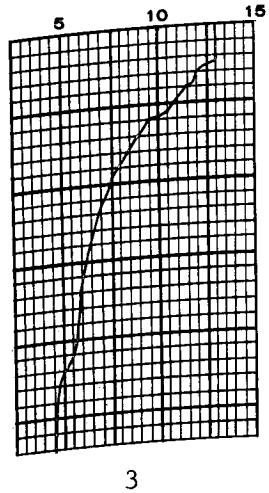

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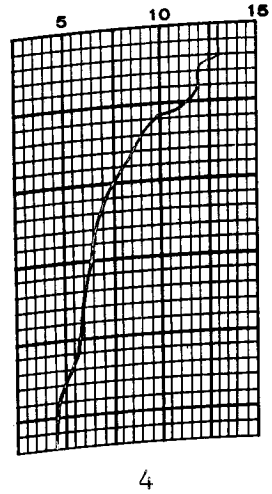

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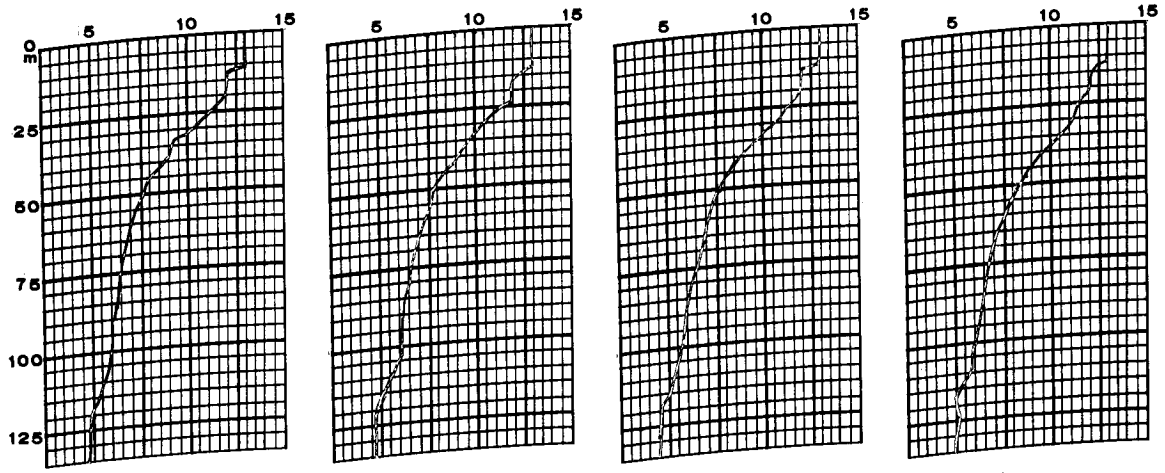

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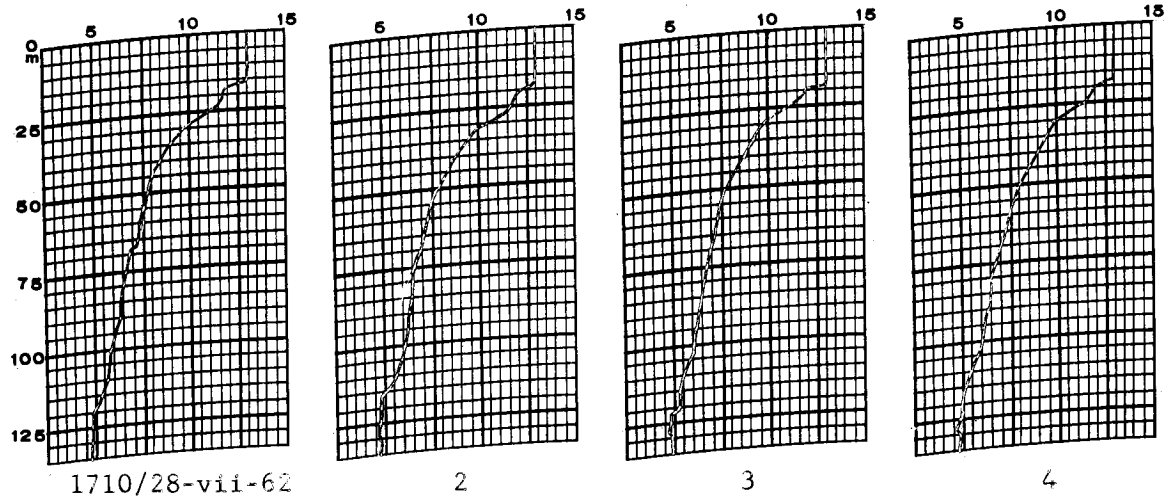
Grid OS



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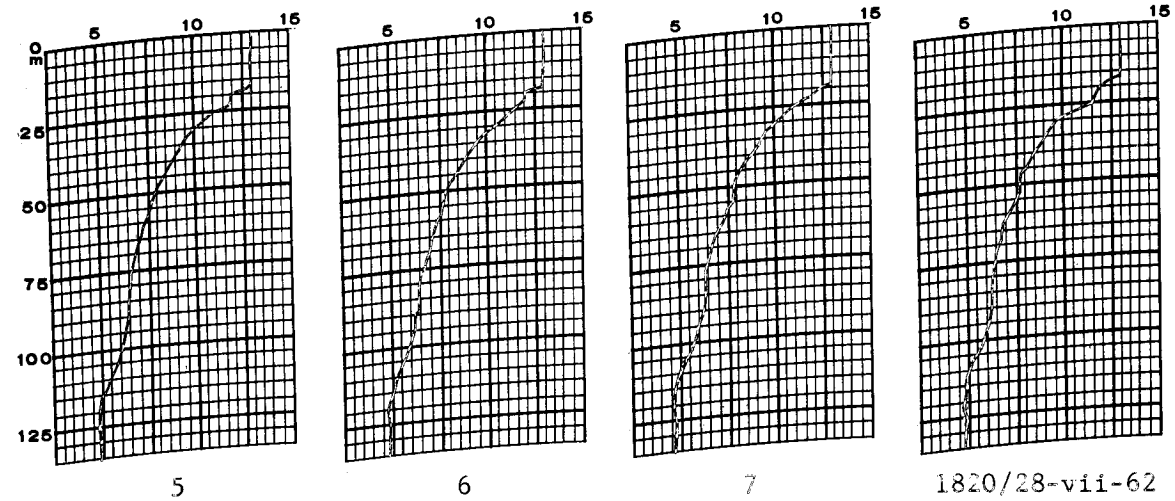

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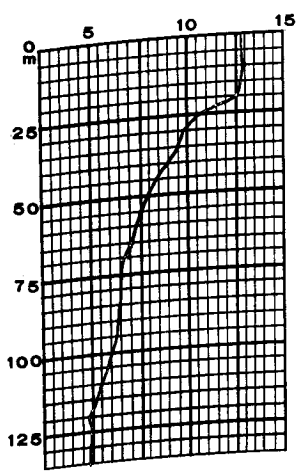
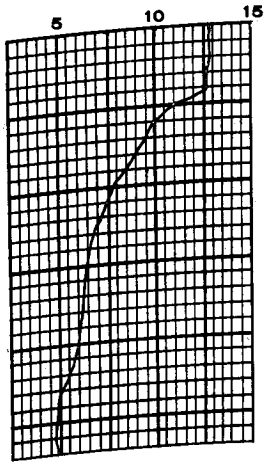


1710/30-vii-62



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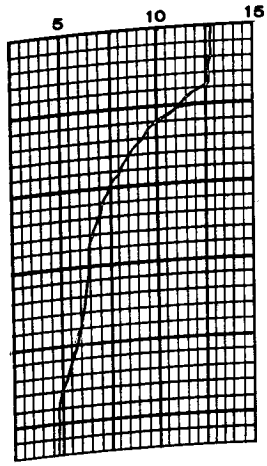

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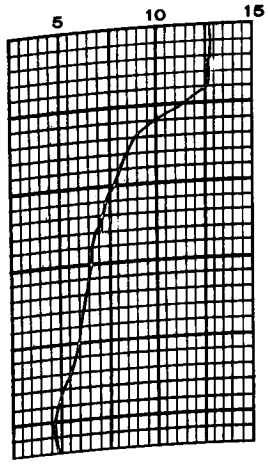

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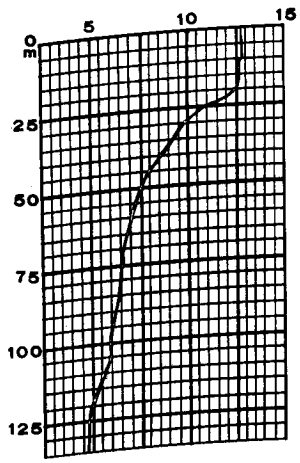

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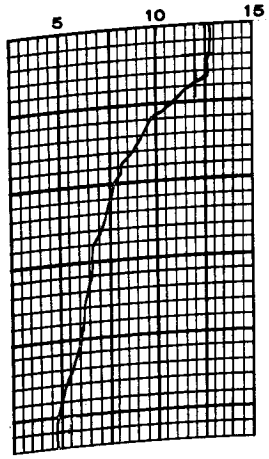

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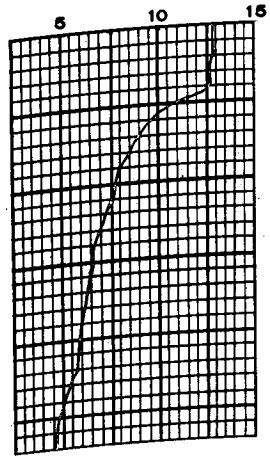

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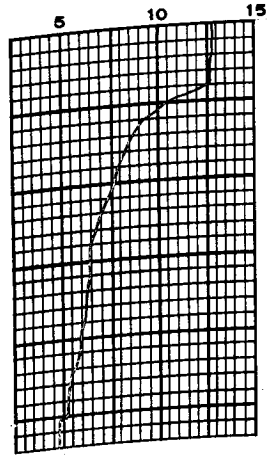

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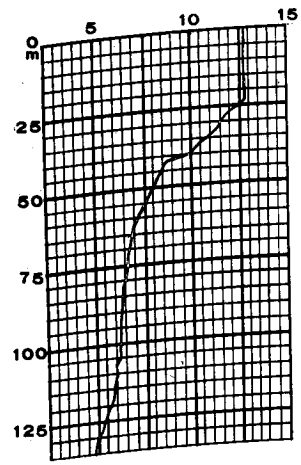
Grid OS



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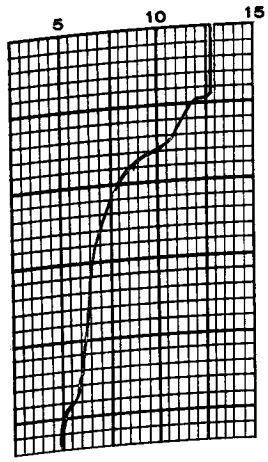

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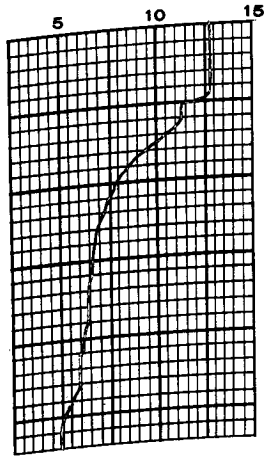

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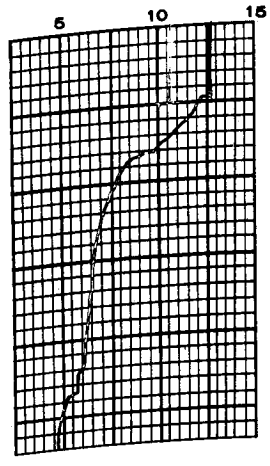

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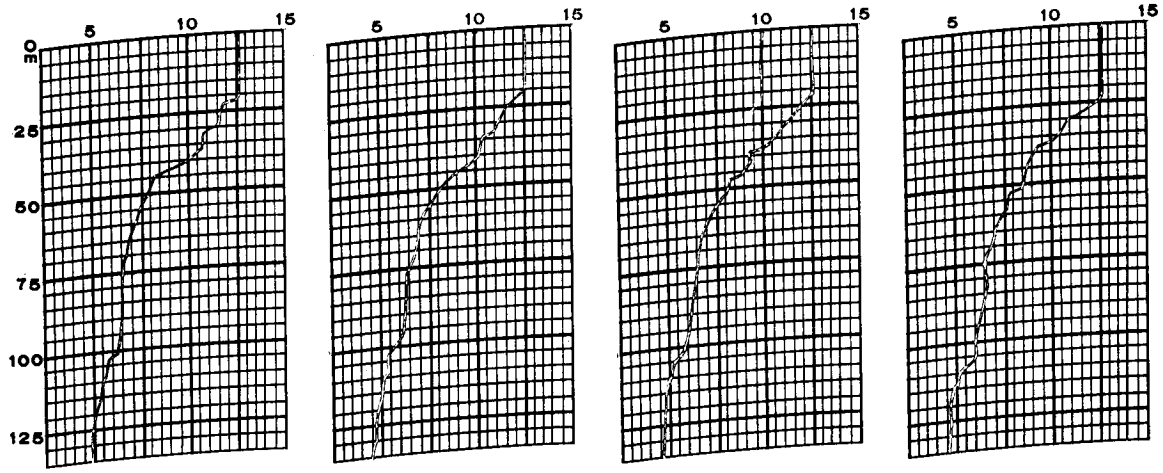

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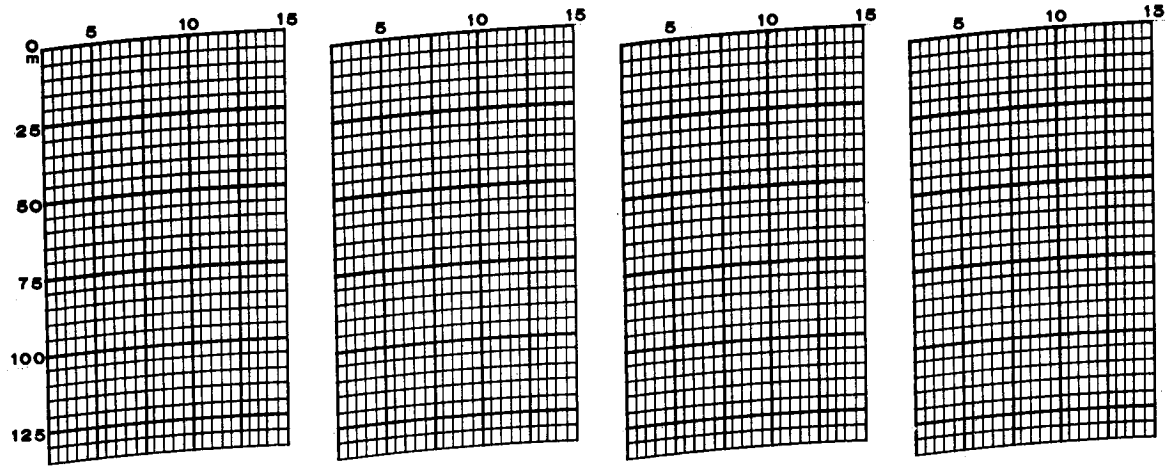

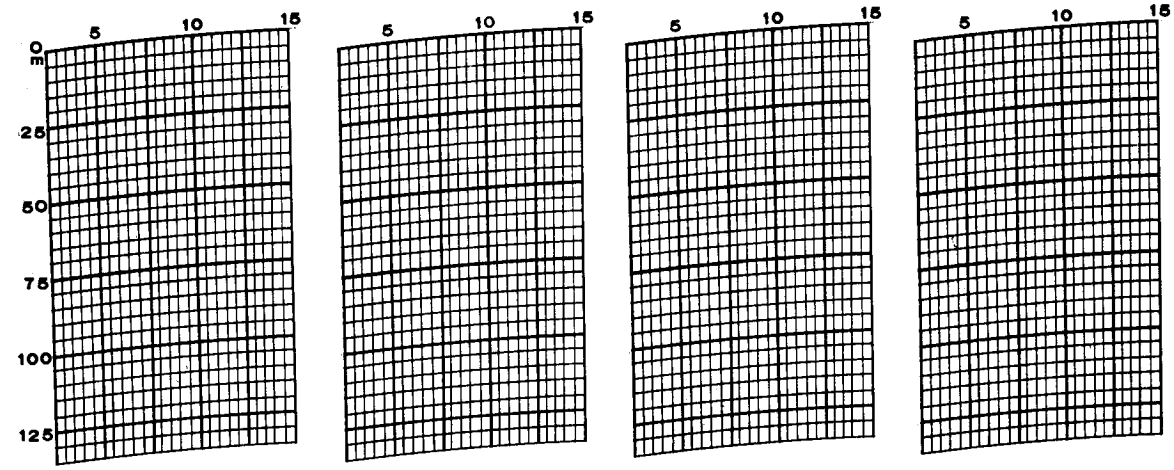

Ocean Weather Station "P"

Patrol No. 50, January 21 - March 2, 1962
Survey P-62-1, March 1 - April 14, 1962
Patrol No. 51, April 16 - May 24, 1962
Survey P-62-2, May 23 - July 2, 1962
Patrol No. 52, July 1 - August 3, 1962

Section IV

Surface Salinity Data

Surface salinity observations, Ocean Station "P" observed at 0100 G.M.T. on board "Stonetown", and at 0200 G.M.T. on board "St. Catharines"

Date	Position	Salinity ‰
	Patrol No. 50, C.C.G.S. "Stonetown"	
Jan. 21, 1962	Grid OP	32.668
22	JJ	32.648
23	LS	32.626
24	KS	32.636
25	JK	32.753
29	OS	32.678
30	OK	32.396
Feb. 1	KS	32.754
2	OI	32.947
4	JK	32.626
5	JK	32.211
6	OS	32.624
8	OS	32.621
9	JS	32.614
10	OK	32.842
11	JK	32.603
14	OJ	32.636
15	KI	32.720
16	OJ	32.559
17	OS	32.596
18	JJ	32.720
19	JJ	32.590
20	OS	32.806
21	OJ	32.558
22	OS	32.645
23	OS	32.628
24	OS	32.572
25	KS	32.567
26	KK	32.643
27	OS	32.568
28	OS	32.570
Mar. 1	OS	32.566
2	OS	32.470
	Survey P-62-1, C.C.G.S. "St. Catharines"	
Mar. 1, 1962	49° 15'n, 133° 40'w	32.570
2	49° 28'n, 137° 40'w	32.699
2	49° 33'n, 138° 40'w	32.710
2	49° 37'n, 139° 40'w	32.652
2	49° 45'n, 141° 40'w	32.667
3	Grid ON	32.643
4	OS	32.642
5	JS	32.626
6	OS	32.605

Date	Position	Salinity ‰
	Survey P-62-1, C.C.G.S. "St. Catharines"	
Mar. 7, 1962	Grid OS	32.596
8	OS	32.592
9	OS	32.625
10	OS	32.638
11	OS	32.630
12	OS	32.597
13	OS	32.623
14	OS	32.600
15	OS	32.607
17	OS	32.589
18	OS	32.594
19	OS	32.625
20	OS	32.607
21	OS	32.595
23	OS	32.630
24	OS	32.596
25	OS	32.639
26	OS	32.620
27	OS	32.541
28	OS	32.574
29	OI	32.608
31	OS	32.615
Apr. 2	OS	32.590
4	OJ	32.617
5	OS	32.565
6	OS	32.589
7	OS	32.613
8	OS	32.600
9	OS	32.605
10	OS	32.495
11	OS	32.578
12	OS	32.562
13	OK	32.602
13	ON	32.563
13	49° 45'n, 141° 40'w	32.618
14	49° 37'n, 139° 40'w	32.544
14	49° 33'n, 138° 40'w	32.609
14	49° 31'n, 137° 40'w	32.670
14	49° 23'n, 135° 40'w	32.504
	Patrol No. 51, C.C.G.S. "Stonetown"	
Apr. 16, 1962	Grid OJ	32.605
17	OJ	32.597
18	OS	32.575
19	OJ	32.575
20	OK	32.610
21	OS	32.619
22	OJ	32.583
23	OJ	32.601

Date	Position	Salinity ‰
	Patrol No. 51, C.C.G.S. "Stonetown"	
Apr. 24, 1962	Grid OK	32.587
25	OS	32.591
26	OJ	32.588
27	KS	32.586
28	OS	32.584
29	OJ	32.591
30	OS	32.650
May 1	OS	32.596
2	OJ	32.664
3	OS	32.600
4	OS	32.633
5	OS	32.606
6	KK	32.613
7	OS	32.606
8	OS	32.607
9	OS	32.624
10	OS	32.586
11	OS	32.618
12	OS	32.543
13	OS	32.741
14	OJ	32.634
15	JK	32.653
16	OS	32.690
17	KS	32.646
18	OJ	32.762
19	KS	32.620
20	OS	32.761
21	OS	32.163
22	OS	32.784
23	OS	32.626
24	OS	32.675
	Survey P-62-2, C.C.G.S. "St. Catharines"	
May 23, 1962	48° 41'n, 126° 40'w	31.113
23	48° 56'n, 129° 40'w	32.529
23	49° 01'n, 130° 40'w	32.391
24	49° 05'n, 131° 40'w	32.606
24	49° 10'n, 132° 40'w	32.586
24	49° 15'n, 133° 40'w	32.568
24	49° 19'n, 134° 40'w	32.630
24	49° 22'n, 135° 40'w	32.556
24	49° 26'n, 136° 40'w	32.553
25	49° 30'n, 137° 40'w	32.609
25	49° 33'n, 138° 40'w	32.634
25	49° 37'n, 139° 40'w	32.630
25	49° 40'n, 140° 40'w	32.623
25	49° 45'n, 141° 40'w	32.534
25	Grid KU	32.591

Date	Position	Salinity ‰
Survey P-62-2, C.C.G.S. "St. Catharines"		
May 26, 1962	Grid KP	32.558
26	OK	32.558
27	OJ	32.552
28	OS	32.567
29	JJ	32.572
30	OJ	32.549
31	OS	32.556
June 1, 1962	OS	32.571
2	OS	32.562
3	OS	32.578
4	OS	32.557
5	OS	32.572
6	OS	32.183
7	OS	32.544
8	OS	32.548
9	OS	32.577
10	OS	32.562
11	OS	32.569
12	OS	32.205
13	OS	32.551
14	OS	32.567
15	OS	32.575
16	OS	32.541
17	OS	32.574
18	OS	32.631
19	OS	32.557
20	OS	32.552
21	OS	32.551
22	OS	32.610
23	OS	32.564
24	OS	32.571
25	OS	32.610
26	OS	32.590
27	OS	32.604
28	OS	32.572
29	OS	32.567
29	49° 58'n, 144° 40'w	32.583
29	49° 54'n, 143° 40'w	32.577
29	49° 50'n, 142° 40'w	32.621
29	49° 45'n, 141° 40'w	32.611
30	49° 37'n, 139° 40'w	32.627
30	49° 33'n, 138° 40'w	32.662
30	49° 29'n, 137° 40'w	32.648
30	49° 17'n, 136° 40'w	32.623
30	49° 23'n, 135° 40'w	32.563
30	49° 20'n, 134° 40'w	32.575

Date	Position	Salinity ‰
	Survey P-62-2, C.C.G.S. "St. Catharines"	
July 1, 1962	49° 14'n, 133° 40'w	32.576
1	49° 10'n, 132° 40'w	32.551
1	49° 05'n, 131° 40'w	32.605
1	49° 01'n, 130° 40'w	32.258
1	48° 58'n, 129° 40'w	32.382
1	48° 51'n, 128° 40'w	32.286
1	48° 46'n, 127° 40'w	32.332
2	48° 41'n, 126° 40'w	32.161
	Patrol No. 52, C.C.G.S. "Stonetown"	
July 1, 1962	Grid OS	32.928
2	JS	32.571
3	OS	32.610
4	JS	32.566
5	OS	32.600
6	OS	32.578
7	OS	32.588
8	OS	32.592
9	OS	32.580
10	OS	32.578
11	OS	32.572
12	OS	32.620
13	OJ	32.588
14	OJ	32.606
15	OS	32.601
16	OK	32.548
17	OS	32.444
18	OS	32.546
19	OS	32.545
20	OS	32.538
21	OJ	32.545
22	OS	32.568
23	OS	32.537
24	OS	32.520
25	KJ	32.522
26	OS	32.517
27	OS	32.504
28	OS	32.524
29	KS	32.518
30	OS	32.506
31	KS	32.512
Aug. 1	OJ	32.500
2	OK	32.506
3	KP	32.495

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