

1972 - B70L - /5

PRODUCTION PRIMAIRE - LABORATORIUM VOOR EKOLOGIE EN
SYSTEMATIEK V.U.B.

Résultats de production primaire pour la croisière 05 (octobre 72)

par J.P. Mommaerts

PRODUCTION POTENTIELLE et PRODUCTION INTEGREE CALCULEE

Les ordres de grandeur observés en octobre 1972 sont les mêmes qu'en septembre 72. Les commentaires faits pour la croisière de septembre 72 s'appliquent à celle d'octobre sauf en ce qui concerne l'influence de l'Escaut sur le rapport micro-/nannoplancton.

PRODUCTION INTEGREE MESUREE (in situ simulé)

Toute photoinhibition de surface a cessé, ce qui démontre que $1000 \text{ J/cm}^2 \text{ jour}$ semble bien être un seuil inférieur pour ce phénomène. Les intégrales journalières étaient :

Station	Intégrale (mg C/m ² jour)
1	346
2	890
3	310
4	775
5	474
6	310
8	172
9	215
10	108
24	910
25	320

Ces chiffres sont en bon accord avec les valeurs intégrées calculées à partir des résultats in vitro.

CROISIERE 05 OCTOBRE 1972

PRIMARY PRODUCTION EKOLOGIE EN SYSTEMATIEK V.U.B.
 COMPUTATION OF POTENTIAL PRODUCTION (MG C/M3/HOUR)

SAMPLING STATION 7 91072 1500

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(14.0)	4.97(100)	3.43(69)	1.54(30)	.44
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.81 A= 111

SAMPLING STATION 6 101072 1000

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(5.0)	20.59(100)	9.79(47)	10.80(52)	1.10
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 5.73 A= 188

SAMPLING STATION 5 101072 1230

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(4.0)	20.11(100)	7.45(37)	12.66(62)	1.69
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 5.67 A= 226

SAMPLING STATION 1 111072 1445

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(6.0)	9.86(100)	8.02(81)	1.84(18)	.22
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 3.97 A= 67

SAMPLING STATION 2 121072 1030

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(7.0)	7.51(100)	4.02(53)	3.49(46)	.86
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 3.46 A= 167

SAMPLING STATION 3 121072 1200

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (17.0)	2.95(100)	2.22(75)	.73(24)	.32
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.17 A= 89

SAMPLING STATION 4 121072 1515

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (20.0)	2.33(100)	2.03(87)	.30(12)	.14
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 1.93 A= 46

SAMPLING STATION 10 131072 1015

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (20.0)	2.58(100)	2.18(84)	.40(15)	.18
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.03 A= 55

SAMPLING STATION 9 161072 1330

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (5.0)	2.78(100)	2.41(86)	.37(13)	.15
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.1 A= 47

SAMPLING STATION 25 171072 1200

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (7.0)	3.33(100)	1.18(35)	2.15(64)	1.82
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.3 A= 232

SAMPLING STATION 24 171072 1400

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.00 (.0)	-	-	-	-
35.00 (7.0)	4.33(100)	2.20(50)	2.13(49)	.96
13.00 (.0)	-	-	-	-
4.50 (.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.63 A= 177

SAMPLING STATION 23 181072 1000

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(7.0)	3.53(100)	1.73(49)	1.80(50)	1.04
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.37 A= 183

SAMPLING STATION 8 191072 1030

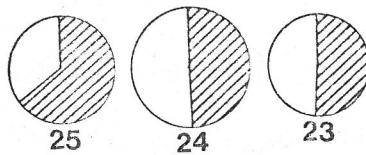
IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(4.0)	2.85(100)	1.68(58)	1.17(41)	.69
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4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 2.13 A= 147

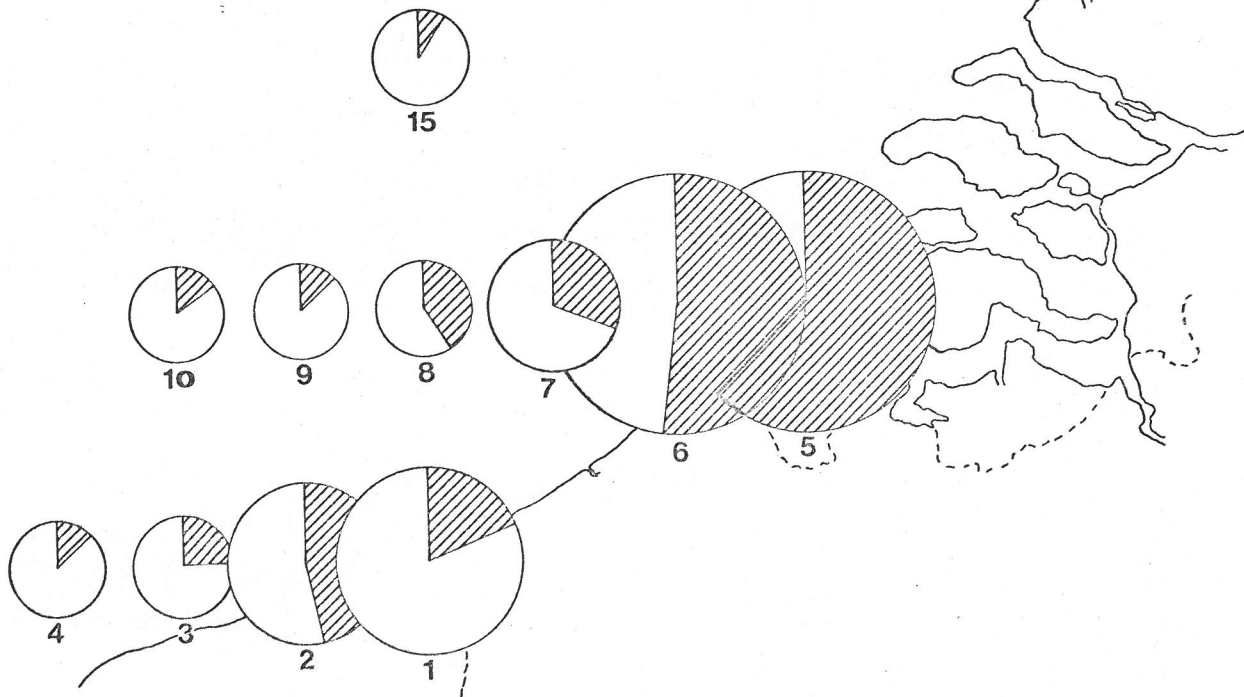
SAMPLING STATION 15 191072 1445

IRRAD (D)	TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
100.0(.0)	-	-	-	-
35.0(5.0)	2.47(100)	2.25(91)	.22(8)	.09
13.0(.0)	-	-	-	-
4.5(.0)	-	-	-	-

DIAGR.CONSTR.(NO MAX AREA):R= 1.98 A= 32



CRUISE 05 1972 POT. PR.



PRIMARY PRODUCTION EKOLOGIE EN SYSTEMATIEK V.U.B.
 COMPUTATION OF INTEGRATED PRODUCTION (MG C/M2/DAY)

SAMPLING STATION 7 91072 1500

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
339(100)	234(69)	105(30)	.44
DIAGR.CONSTR.(NO MAX AREA):R= 1.64 A= 111			
DEPTH 1 PC SURF.IRRAD. : 13 M (E= .35)			

SAMPLING STATION 6 101072 1000

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
540(100)	257(47)	283(52)	1.10
DIAGR.CONSTR.(NO MAX AREA):R= 2.07 A= 188			
DEPTH 1 PC SURF.IRRAD. : 5 M (E= .92)			

SAMPLING STATION 5 101072 1230

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
739(100)	273(36)	466(63)	1.70
DIAGR.CONSTR.(NO MAX AREA):R= 2.43 A= 227			
DEPTH 1 PC SURF.IRRAD. : 7 M (E= .65)			

SAMPLING STATION 1 111072 1445

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
336(100)	273(81)	63(18)	.23
DIAGR.CONSTR.(NO MAX AREA):R= 1.63 A= 67			
DEPTH 1 PC SURF.IRRAD. : 6.5 M (E= .7)			

SAMPLING STATION 2 121072 1030

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
828(100)	444(53)	384(46)	.86
DIAGR.CONSTR.(NO MAX AREA):R= 2.57 A= 166			
DEPTH 1 PC SURF.IRRAD. : 21 M (E= .21)			

SAMPLING STATION 3 121072 1200

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
263(100)	198(75)	65(24)	.32
DIAGR.CONSTR.(NO MAX AREA):R= 1.45 A= 88			
DEPTH 1 PC SURF.IRRAD. : 17 M (E= .27)			

SAMPLING STATION 4 121072 1515

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
534(100)	464(86)	70(13)	.15
DIAGR.CONSTR.(NO MAX AREA):R= 2.06 A= 47			
DEPTH 1 PC SURF.IRRAD. : 43.5 M (E= .1)			

SAMPLING STATION 10 131072 1015

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
169(100)	143(84)	26(15)	.18
DIAGR.CONSTR.(NO MAX AREA):R= 1.16 A= 55			
DEPTH 1 PC SURF.IRRAD. : 12.5 M (E= .36)			

SAMPLING STATION 9 161072 1330

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
285(100)	247(86)	38(13)	.15
DIAGR.CONSTR.(NO MAX AREA):R= 1.5 A= 48			
DEPTH 1 PC SURF.IRRAD. : 19.5 M (E= .23)			

SAMPLING STATION 25 171072 1200

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
507(100)	181(35)	326(64)	1.80
DIAGR.CONSTR.(NO MAX AREA):R= 2.01 A= 231			
DEPTH 1 PC SURF.IRRAD. : 29 M (E= .15)			

SAMPLING STATION 24 171072 1400

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
774(100)	393(50)	381(49)	.96
DIAGR.CONSTR.(NO MAX AREA):R= 2.48 A= 177			
DEPTH 1 PC SURF.IRRAD. : 34 M (E= .13)			

SAMPLING STATION 23 181072 1000

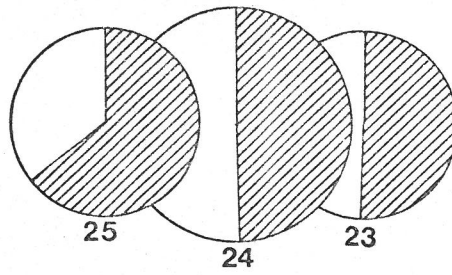
TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
501(100)	246(49)	255(50)	1.03
DIAGR.CONSTR.(NO MAX AREA):R= 2 A= 183			
DEPTH 1 PC SURF.IRRAD. : 27 M (E= .17)			

SAMPLING STATION 8 191072 1030

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
240(100)	141(58)	99(41)	.70
DIAGR.CONSTR.(NO MAX AREA):R= 1.38 A= 148			
DEPTH 1 PC SURF.IRRAD. : 16 M (E= .28)			

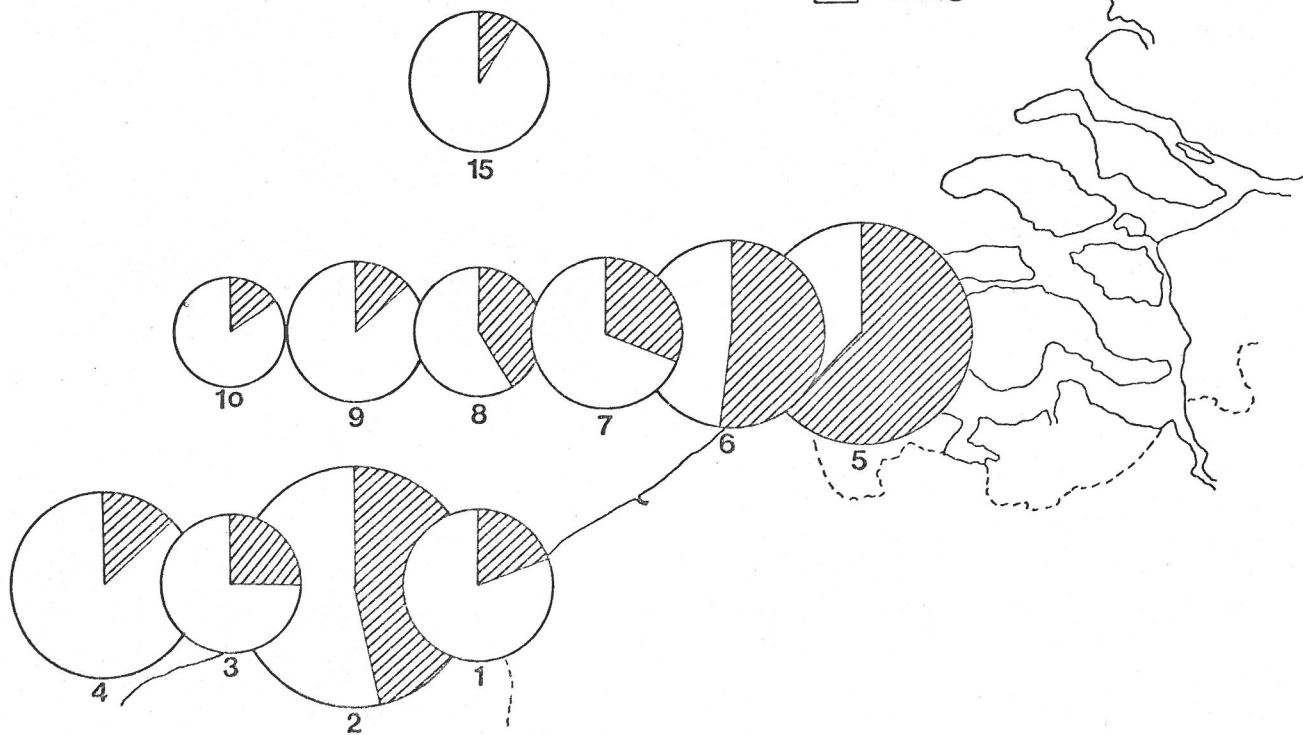
SAMPLING STATION 15 191072 1445

TOTAL (PC)	NANNO (PC)	NETPL (PC)	RATIO
298(100)	272(91)	26(8)	.09
DIAGR.CONSTR.(NO MAX AREA):R= 1.54 A= 31			
DEPTH 1 PC SURF.IRRAD. : 23 M (E= .2)			



CRUISE 05 1972 INT. PR.

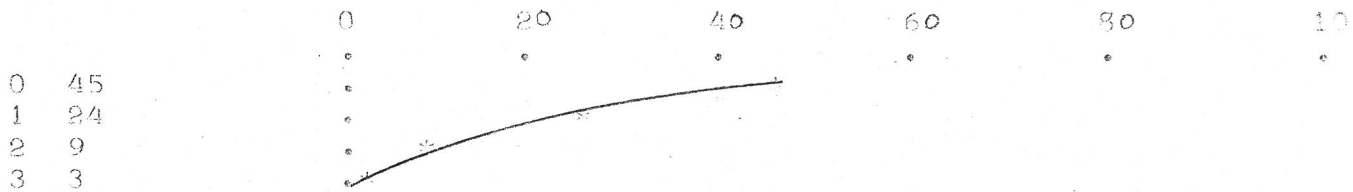
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PRIMARY PRODUCTION EKOLOGIE EN SYSTEMATIEK V.O.R.
 COMPUTATION AND PLOTTING OF IN SITU PRODUCTION (MG C/M³/H)

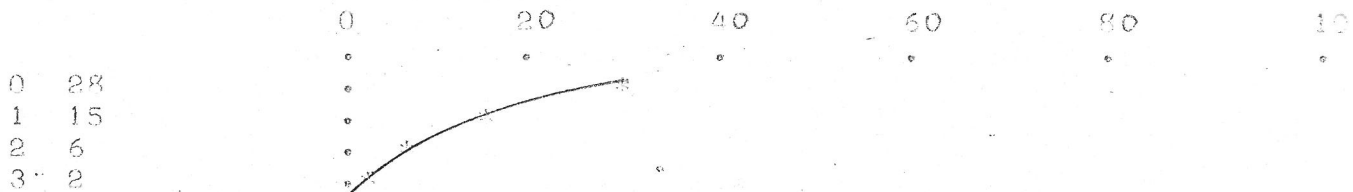
SAMPLING STATION 6 101072

EXTRAPOLATION FACTOR : 2.6



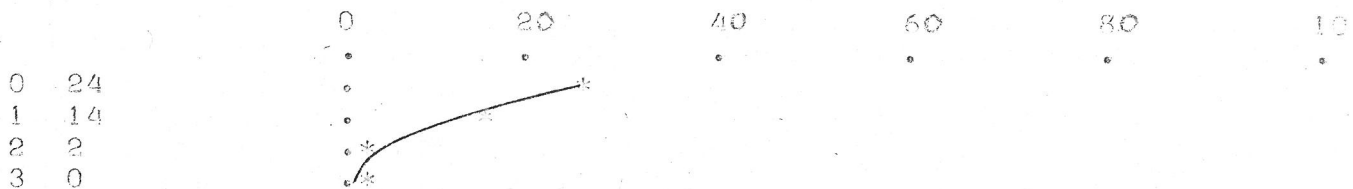
SAMPLING STATION 6 101072

EXTRAPOLATION FACTOR : 5.63



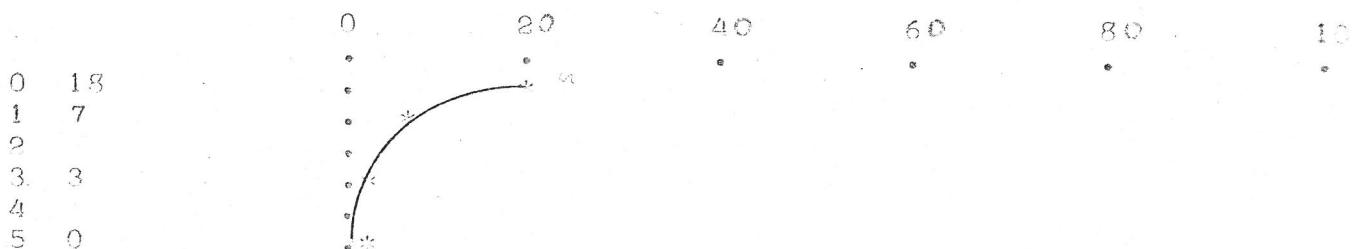
SAMPLING STATION 6 101072

EXTRAPOLATION FACTOR : 1.7



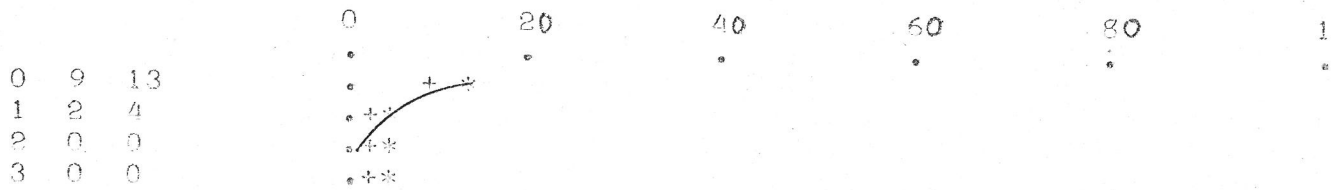
SAMPLING STATION 5 101072

EXTRAPOLATION FACTOR : 4.97



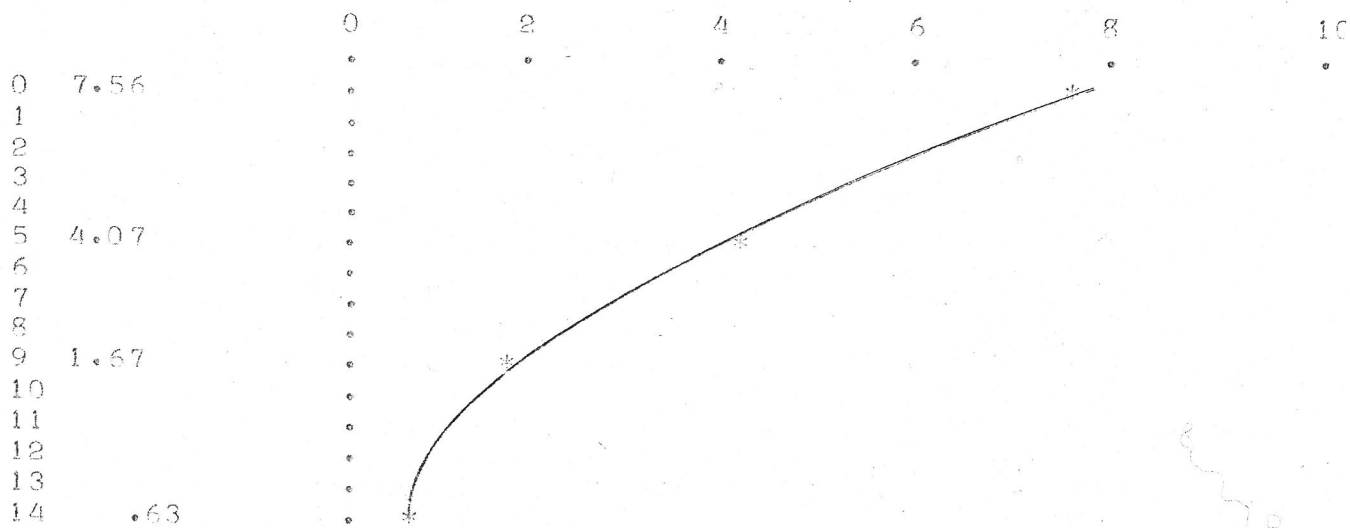
SAMPLING STATION 1 111072

EXTRAPOLATION FACTOR : 11.64



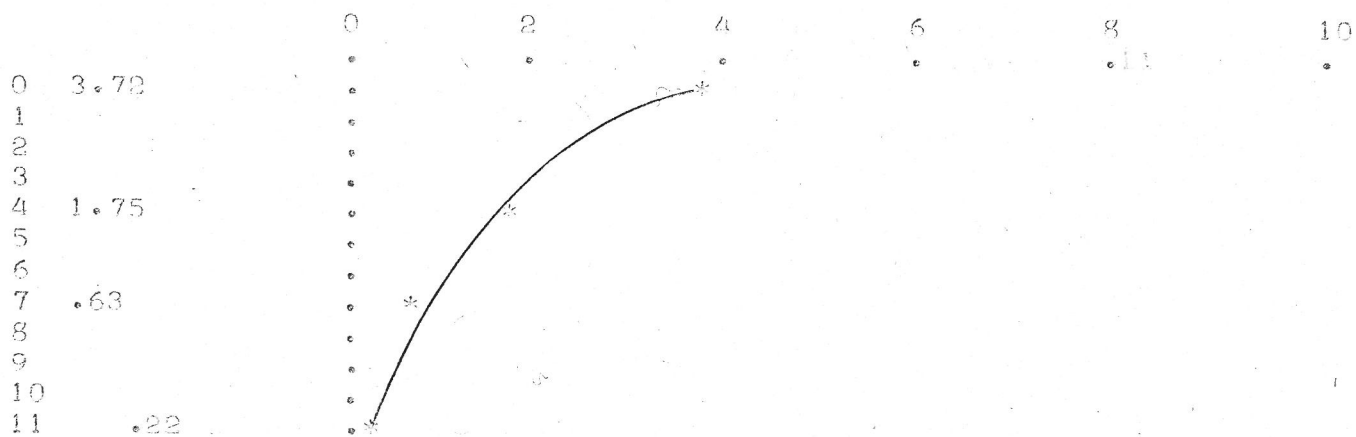
SAMPLING STATION 2 121072

EXTRAPOLATION FACTOR : 3.63



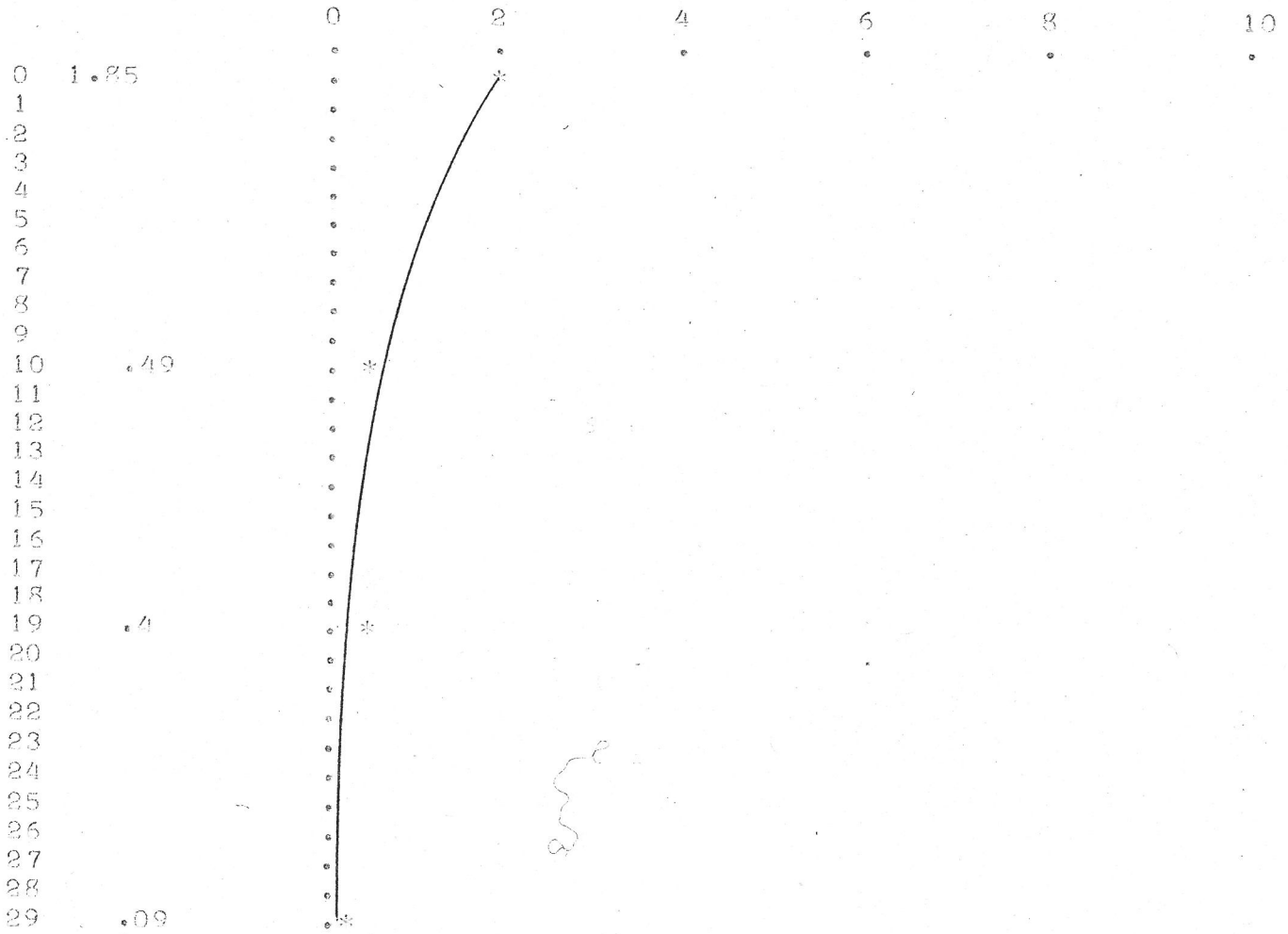
SAMPLING STATION 3 121072

EXTRAPOLATION FACTOR : 3.63



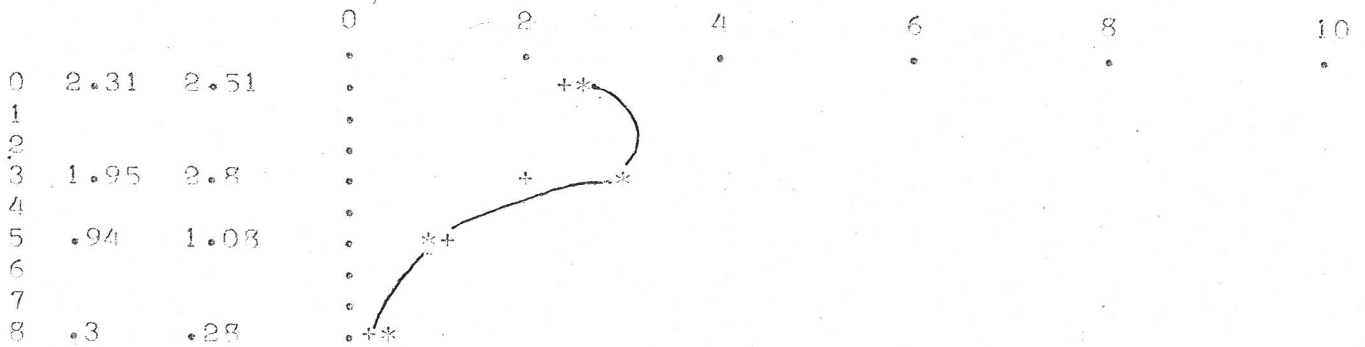
SAMPLING STATION 4 121072

EXTRAPOLATION FACTOR : 27.66



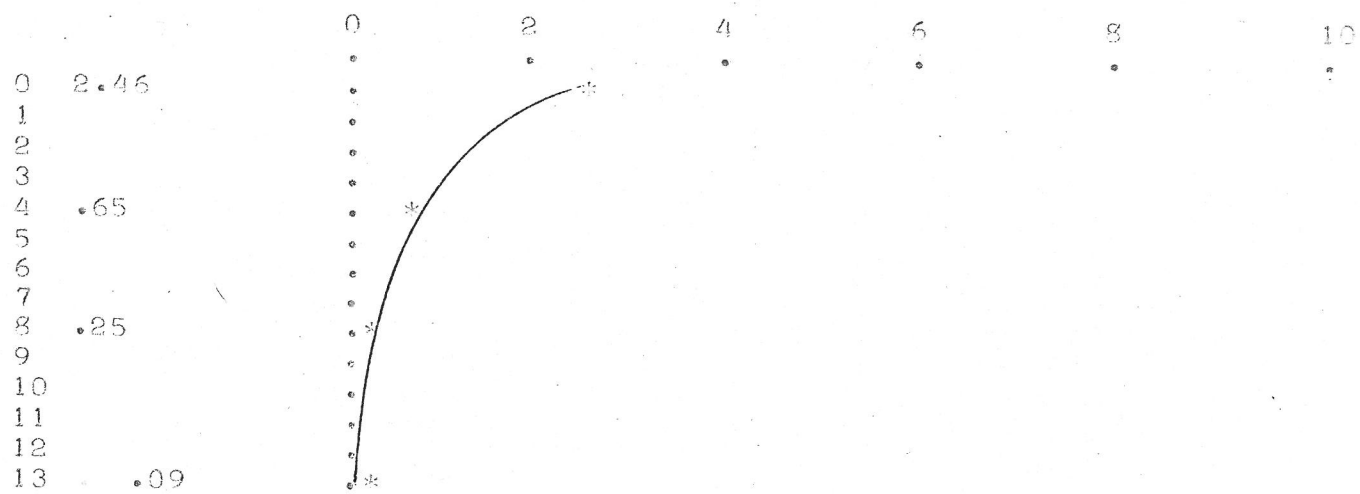
SAMPLING STATION 10 131072

EXTRAPOLATION FACTOR : 2.41



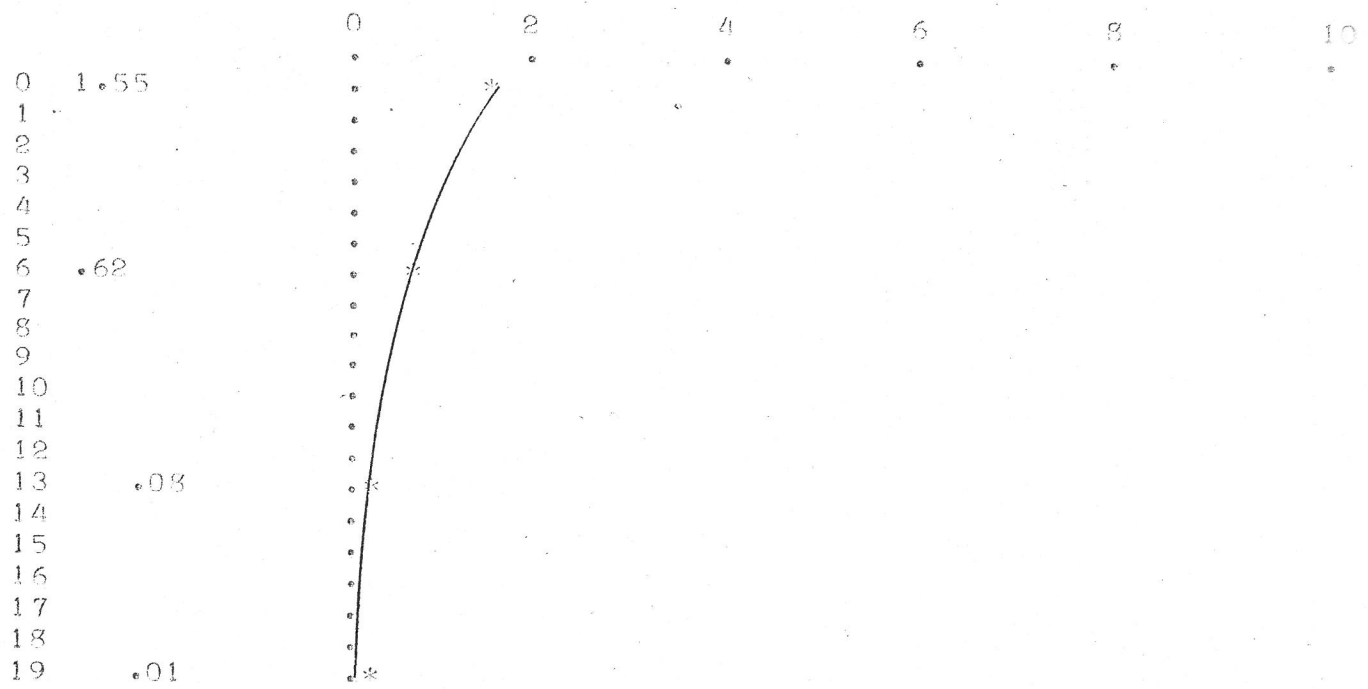
SAMPLING STATION 9 161072

EXTRAPOLATION FACTOR : 7.25



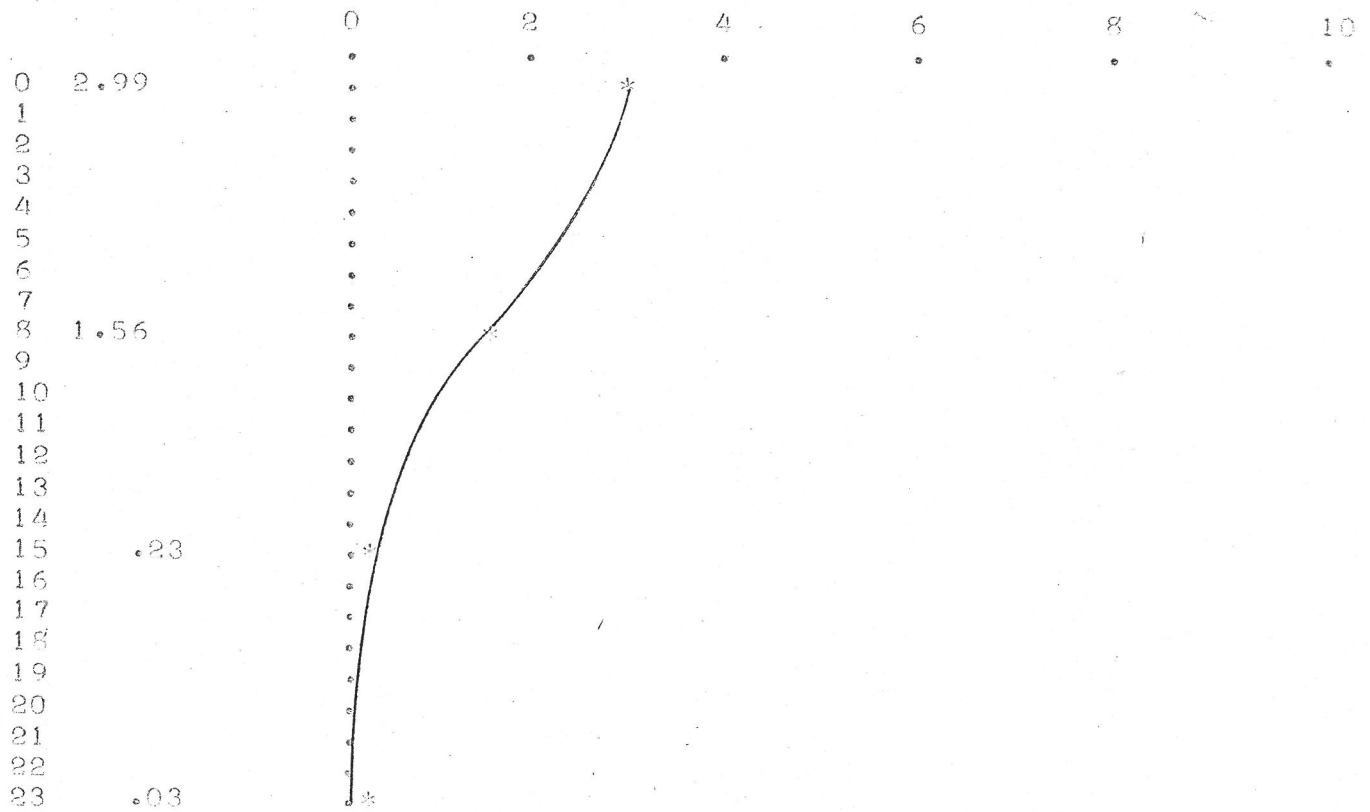
SAMPLING STATION 25 171072

EXTRAPOLATION FACTOR : 13.32



SAMPLING STATION 24 171072

EXTRAPOLATION FACTOR : 13.32



SAMPLING STATION 8 191072

EXTRAPOLATION FACTOR : 1.6

