

635/D256
V.6

Appendix V: Statistical Data -
Horn and Ship Islands from
September 1987 - July 1988

HORN ISLAND STATION 5

SWASH ZONE

BOX CORER - INFAUNAL

CODE: HI5SE87.SWA HORN ISLAND STA. 5 SWASH 14 SEPTEMBER 1987

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	3	3	0.65
2	2	3	0.54
3	4	3	0.30
4	1	3	0.26
5	5	3	0.37

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	66
2	Scolecopsis squamata	5
3	Donax variabilis	3

TOTAL = 74

ENTER TO CONTINUE?

ESTIMATES

H'	=	.3169317
var (H')	=	.0191247
J'	=	.2884836
var (J')	=	1.584549E-02
N	=	4

ENTER TO CONTINUE? +

NUMBER OF SPECIES = 3
 NO. OF INDIVIDUALS = 74
 MARGALEF DIVERSITY: 1.069958
 MENHINICK DIVERSITY: .3487429
 SIMPSON DOMINANCE: .7989634
 SIMPSON DIVERSITY: .2010366
 INVERSE, SIMPSON DIV.: 1.251622
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .8016801
 SIMPSON DIV.: .1983199
 INVERSE OF DOMINANCE: 1.24738
 SHANNON DIVERSITY*:
 .1798249 .4140621 .5973653
 BRILLOUIN DIVERSITY*:
 .1611668 .3711003 .5953846
 *BASE 10, BASE E, BASE 2

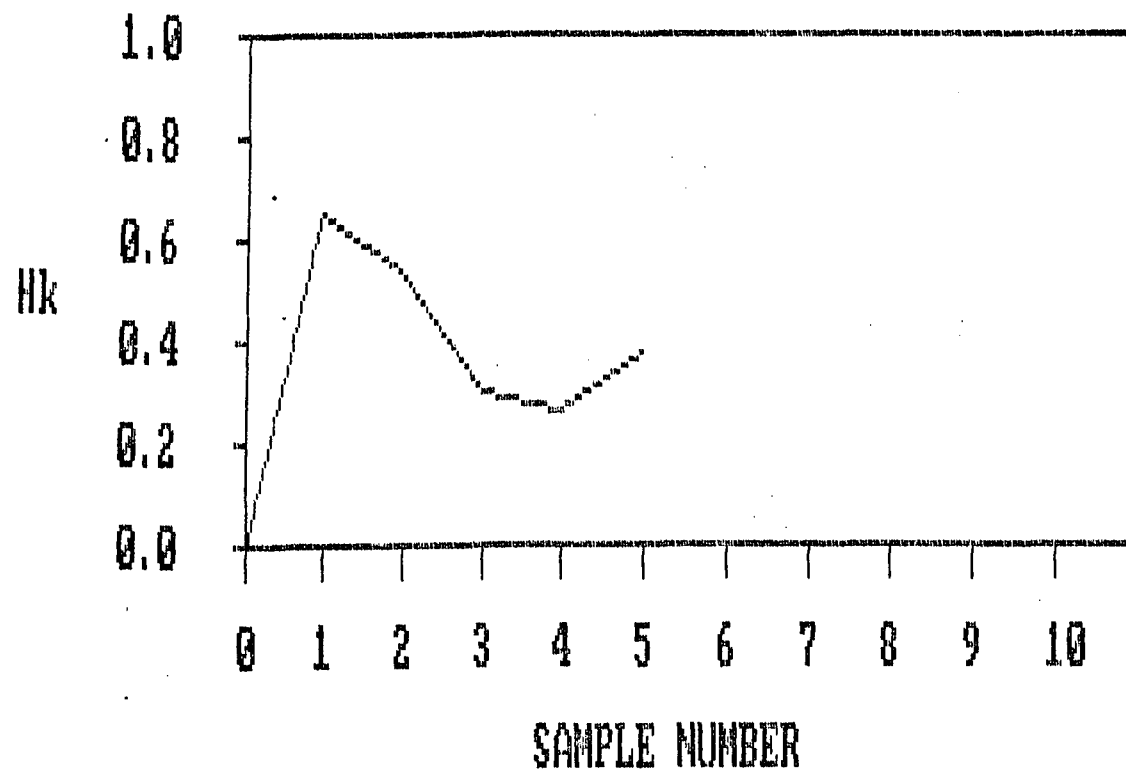
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.: .

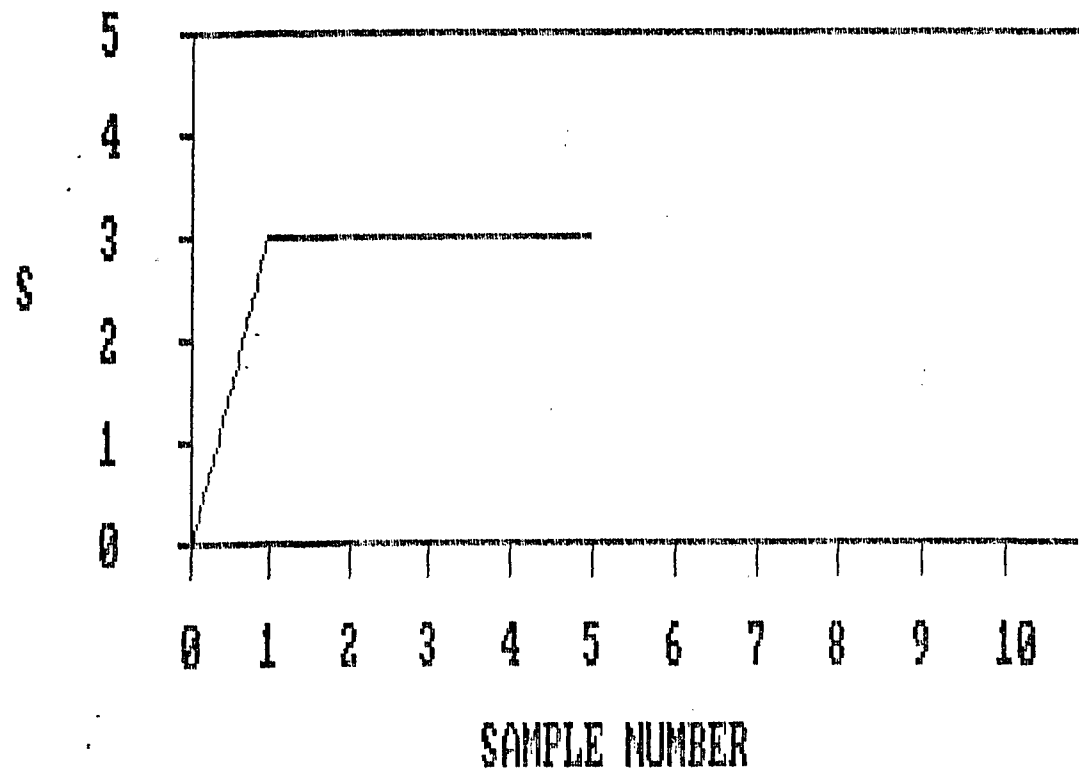
SIMPSON DIVERSITY: .2974799 .6757991
 INVERSE, SIMPSON DOM.: .405777 3.084507
 SHANNON DIVERSITY: .3768956 1.098612
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .3887255 1.095578
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .5043171
 HEIP EVENNESS: .2564756
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: HI5N087.SWA HORN ISLAND STA. 5 SWASH 19 NOVEMBER 1987

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	3	1	0.00
2	4	4	0.72
3	1	4	0.72
4	5	4	0.70
5	2	4	0.76

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	10
2	Scoelelepis squamata	2
3	Lepidactylus sp A	2
4	Exosphaeroma diminutum	1

TOTAL = 15

ENTER TO CONTINUE?

ESTIMATES

H'	=	.7717061
var (H')	=	.1632004
J'	=	.5566683
var (J')	=	8.492009E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 15
MARGALEF DIVERSITY: 2.550823
MENHINICK DIVERSITY: 1.032796
SIMPSON DOMINANCE: .4476191
SIMPSON DIVERSITY: .5523809
INVERSE, SIMPSON DIV.: 2.234043
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4844444
SIMPSON DIV.: .5155556
INVERSE OF DOMINANCE: 2.06422
SHANNON DIVERSITY*:
.4291499 .9881541 1.425605
BRILLOUIN DIVERSITY*:
.3303117 .7405709 1.097272
*BASE 10, BASE E, BASE 2

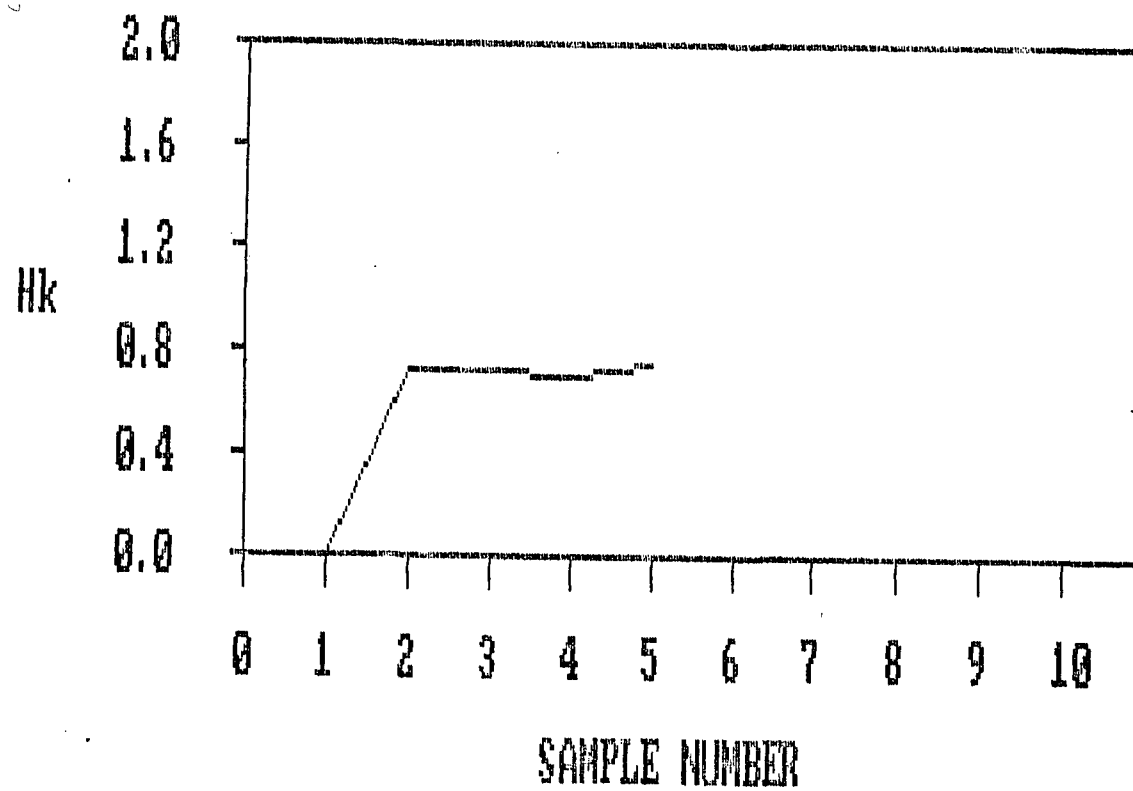
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

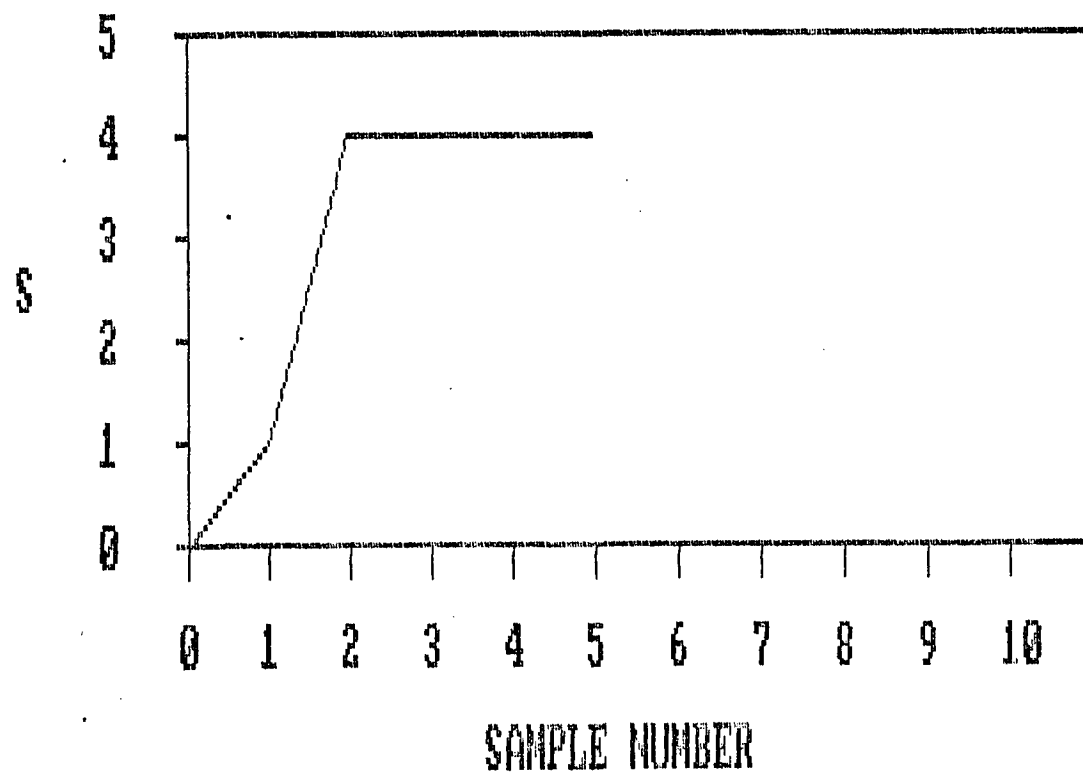
SIMPSON DIVERSITY: .6874073 .8035715
INVERSE, SIMPSON DOM.: .4388298 5.090909
SHANNON DIVERSITY: .7128025 1.386294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5793351 1.312834
(MAX. IS IN BASE E)
SHELDON EVENNESS: .6715679
HEIP EVENNESS: .5620905
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: HI5JA88.SWA HORN ISLAND STA. 5 SWASH 28 JANUARY 1988

NUM	SAMP	CUM S	CUM Hk
---	----	-----	-----
1	3	3	0.79
2	2	3	0.90
3	5	3	0.96
4	1	3	1.00
5	4	3	1.02

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scolecopsis squamata	31
2	Lepidactylus sp A	24
3	Haustorius sp A	20

TOTAL = 75

ENTER TO CONTINUE?

ESTIMATES

H' = 1.056706
var (H') = 1.08091E-03
J' = .961855
var (J') = 8.955725E-04
N = 4

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 75
MARGALEF DIVERSITY: 1.066632
MENHINICK DIVERSITY: .3464102
SIMPSON DOMINANCE: .3354955
SIMPSON DIVERSITY: .6645045
INVERSE, SIMPSON DIV.: 2.980666
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3443556
SIMPSON DIV.: .6556444
INVERSE OF DOMINANCE: 2.903975
SHANNON DIVERSITY*:
.4700229 1.082268 1.561382
BRILLOUIN DIVERSITY*:
.4440101 1.022371 1.47497
*BASE 10, BASE E, BASE 2

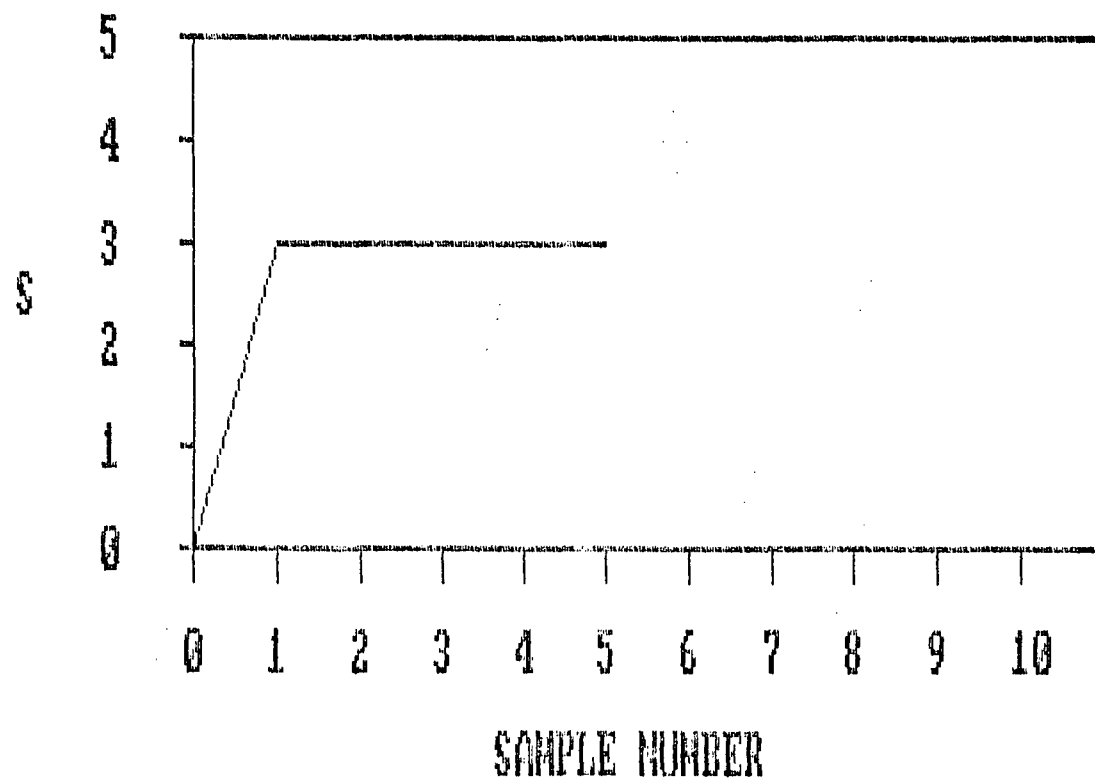
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

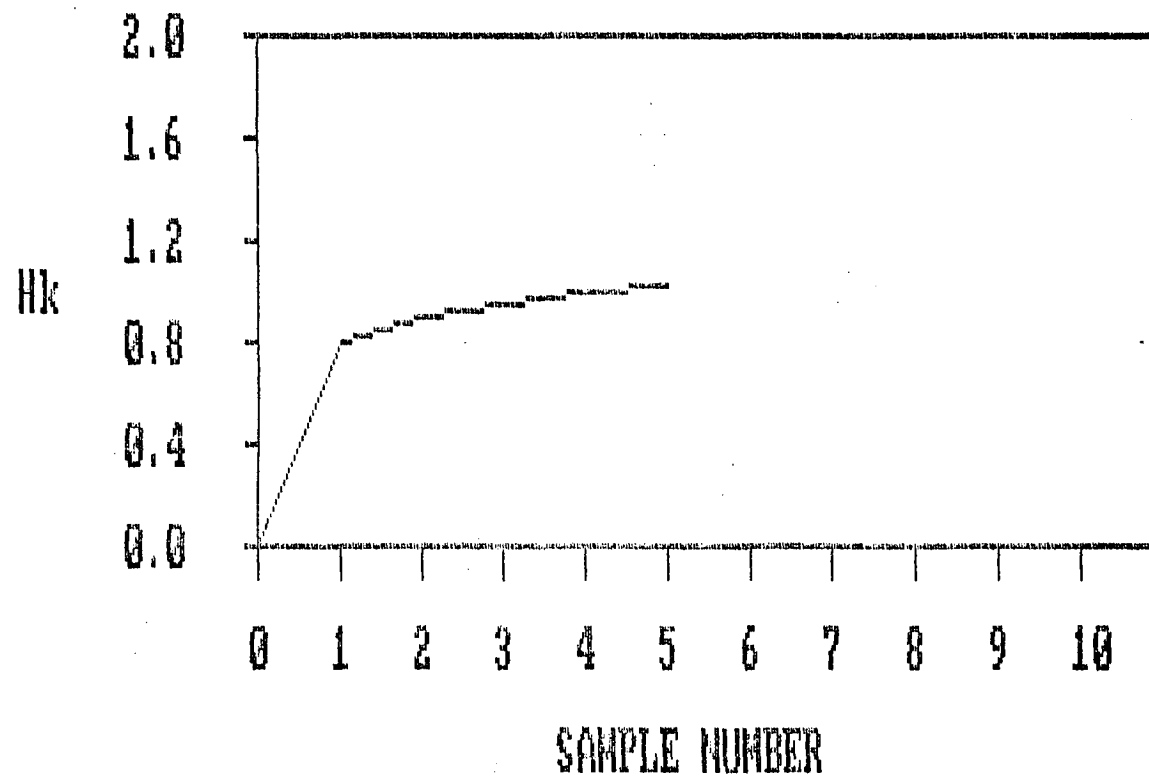
SIMPSON DIVERSITY: .9834667 .6756757
INVERSE, SIMPSON DOM.: .7667024 3.083334
SHANNON DIVERSITY: .9851224 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .9845693 1.038394
(MAX. IS IN BASE E)
SHELDON EVENNESS: .9837883
HEIP EVENNESS: .9756824
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: HI5MP88.SWA HORN ISLAND STA. 5 SWASH 15 MARCH 1988

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	1	5	1.00
2	2	6	1.12
3	4	7	1.08
4	5	7	1.10
5	3	7	1.13

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Lepidactylus sp A	79
2	Scolecipis squamata	50
3	Haustorius sp A	16
4	Leitoscoloplos fragilis	8
5	Spiophanes bombyx	1
6	Hemipodus roseus	1
7	Pinnixa behreae	1

TOTAL = 156

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.331513
var (H')	=	1.706123E-03
J'	=	.6842623
var (J')	=	4.505727E-04
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 7
 NO. OF INDIVIDUALS = 156
 MARGALEF DIVERSITY: 2.735823
 MENHINICK DIVERSITY: .5604485
 SIMPSON DOMINANCE: .3684036
 SIMPSON DIVERSITY: .6315963
 INVERSE, SIMPSON DIV.: 2.714414.
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .3724524
 SIMPSON DIV.: .6275476
 INVERSE OF DOMINANCE: 2.684907
 SHANNON DIVERSITY*:
 .5177934 1.192263 1.720073
 BRILLOUIN DIVERSITY*:
 .4904642 1.129336 1.629287
 *BASE 10, BASE E, BASE 2

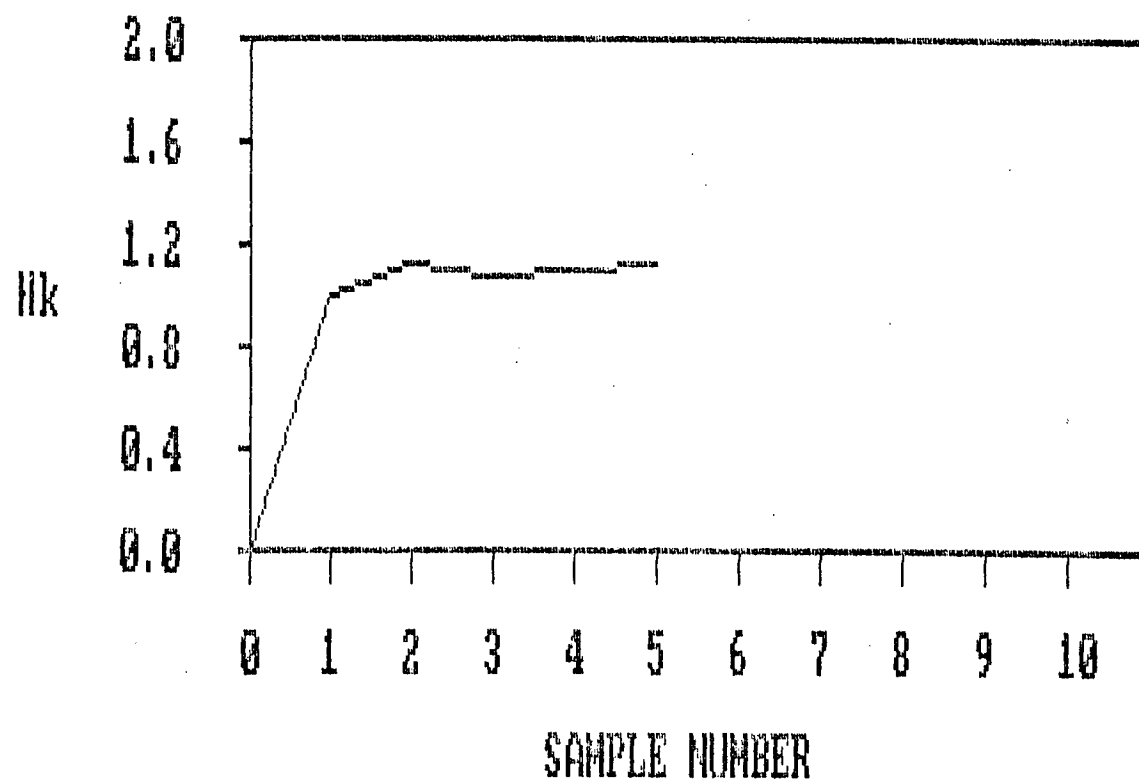
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

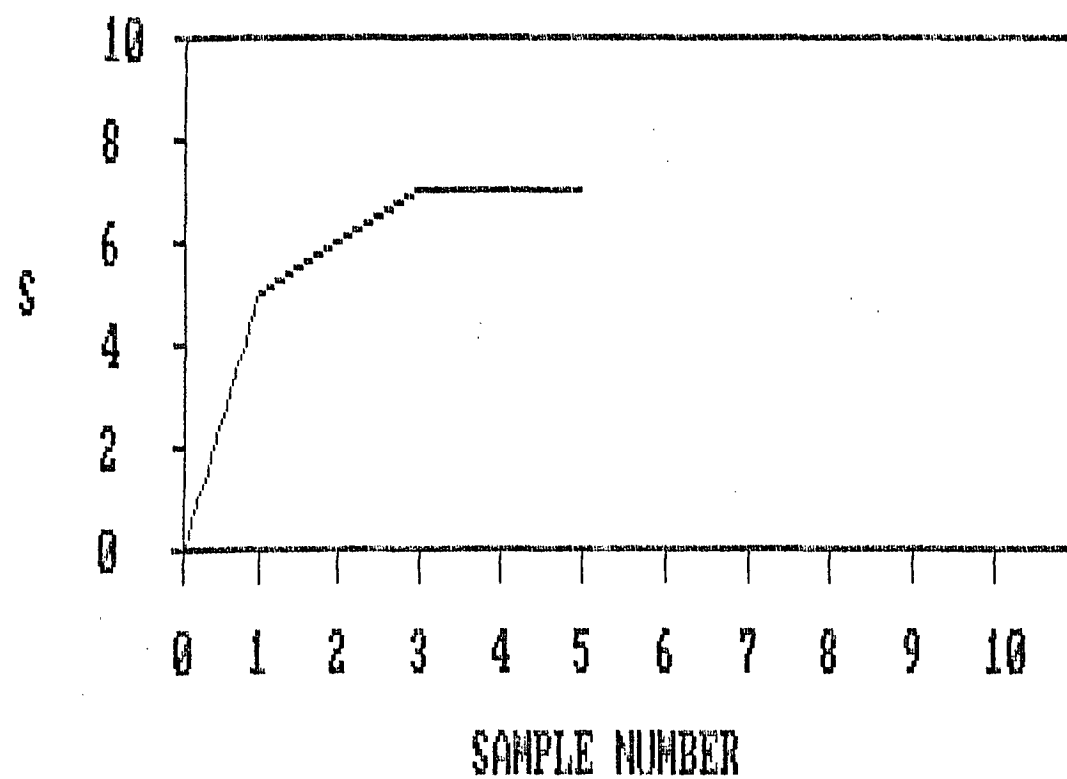
SIMPSON DIVERSITY: .7321389 .8626729
 INVERSE, SIMPSON DOM.: .3727628 7.281879
 SHANNON DIVERSITY: .6127022 1.94591
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .5971524 1.891202
 (MAX. IS IN BASE E)
 SHELTON EVENNESS: .4706471
 HEIP EVENNESS: .3824216
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: HI5MA88.SWA HORN ISLAND STA. 5 SWASH 18 MAY 1988

NUM	SAMP	CUM S	CUM HK
----	-----	-----	-----
1	1	3	0.76
2	4	4	0.88
3	5	4	0.75
4	3	4	0.72
5	2	4	0.67

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
-----	-----	-----
1	Scyphacella arenicola	58
2	Maustorius sp A	11
3	Lepidactylus sp A	3
4	Emerita talpoida	3

TOTAL = 75

ENTER TO CONTINUE?

ESTIMATES

H'	=	.5792658
var (H')	=	1.559317E-03
J'	=	.417852
var (J')	=	8.113786E-04
N	=	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
 NO. OF INDIVIDUALS = 75
 MARGALEF DIVERSITY: 1.599948
 MENHINICK DIVERSITY: .4618802
 SIMPSON DOMINANCE: .6176577
 SIMPSON DIVERSITY: .3823423
 INVERSE, SIMPSON DIV.: 1.61902
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .6227555
 SIMPSON DIV.: .3772445
 INVERSE OF DOMINANCE: 1.605767
 SHANNON DIVERSITY*:
 .3204364 .737832 1.064467
 BRILLOUIN DIVERSITY*:
 .2915466 .6713108 .9684968
 *BASE 10, BASE E, BASE 2

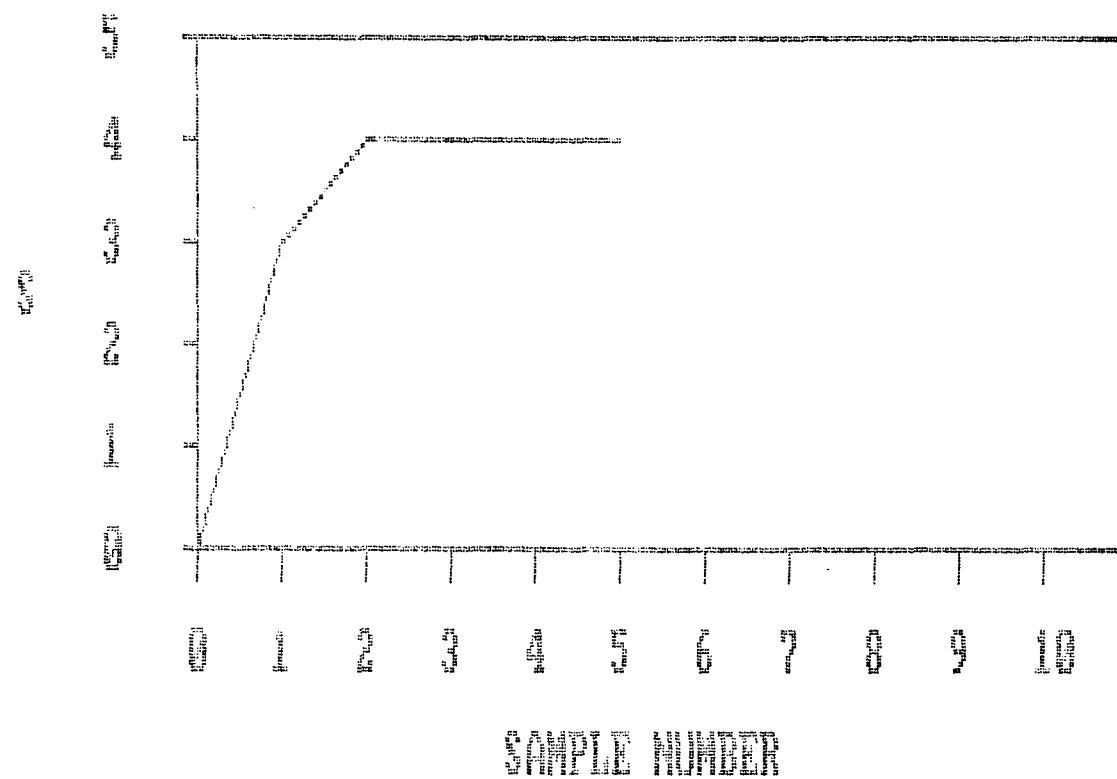
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

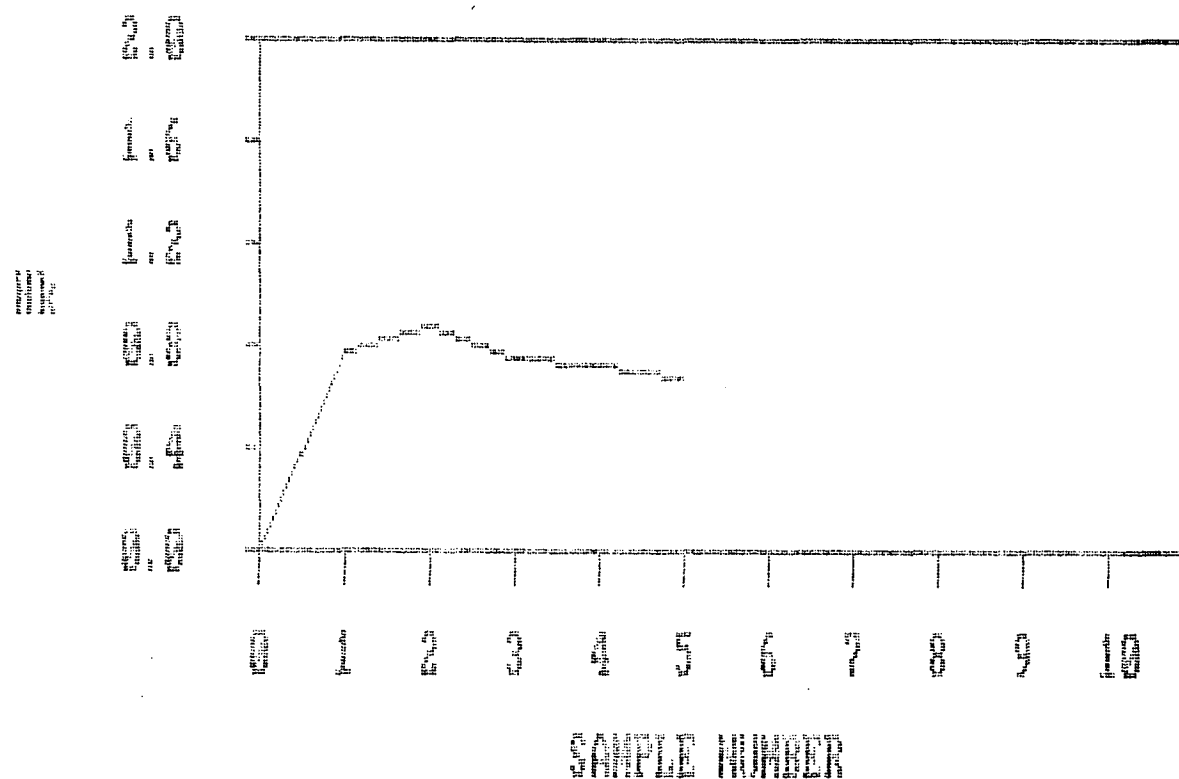
SIMPSON DIVERSITY: .5029926 .7601351
 INVERSE, SIMPSON DOM.: .388346 4.169014
 SHANNON DIVERSITY: .5322333 1.386294
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .4836521 1.388004
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .5228491
 HEIP EVENNESS: .3637989
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
1	2	1	0.00
2	4	3	0.60
3	3	3	0.60
4	5	3	0.41
5	1	3	0.22

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	30
2	Scolecopsis squamata	1
3	Exosphaeroma diminutum	1

TOTAL = 32

ENTER TO CONTINUE?

ESTIMATES

$H' = .3731203$
 $\text{var } (H') = 3.768145\text{E-}02$
 $J' = .3396287$
 $\text{var } (J') = 3.122042\text{E-}02$
 $N = 3$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 32
MARGALEF DIVERSITY: 1.328771
MENHINICK DIVERSITY: .5303301
SIMPSON DOMINANCE: .9770161
SIMPSON DIVERSITY: .1229839
INVERSE, SIMPSON DIV.: 1.14023
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .9808594
SIMPSON DIV.: .1191406
INVERSE OF DOMINANCE: 1.135255
SHANNON DIVERSITY*:
.1203488 .2771134 .3997902
BRILLOUIN DIVERSITY*:
9.364104E-02 .2156165 .3110688
*BASE 10, BASE E, BASE 2

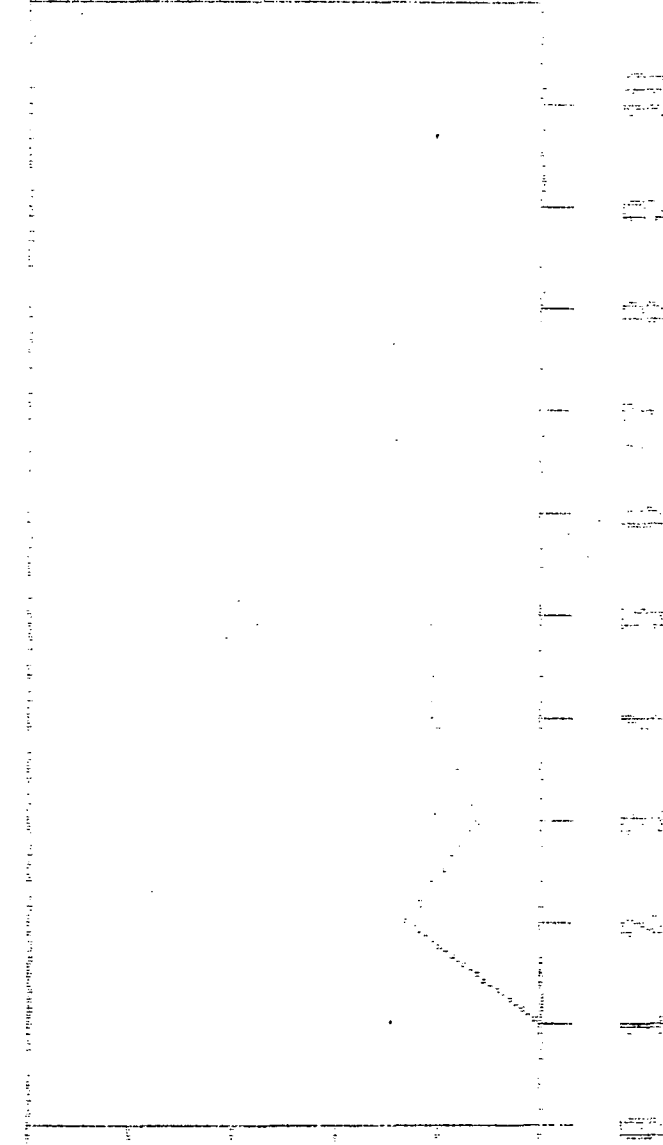
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .1787109 .688172
INVERSE, SIMPSON DOM.: .3555555 3.206897
SHANNON DIVERSITY: .2522395 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1991486 1.082691
(MAX. IS IN BASE E)
SHELDON EVENNESS: .439772
HEIP EVENNESS: .159658
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CHANDLER DUFFETT TANK

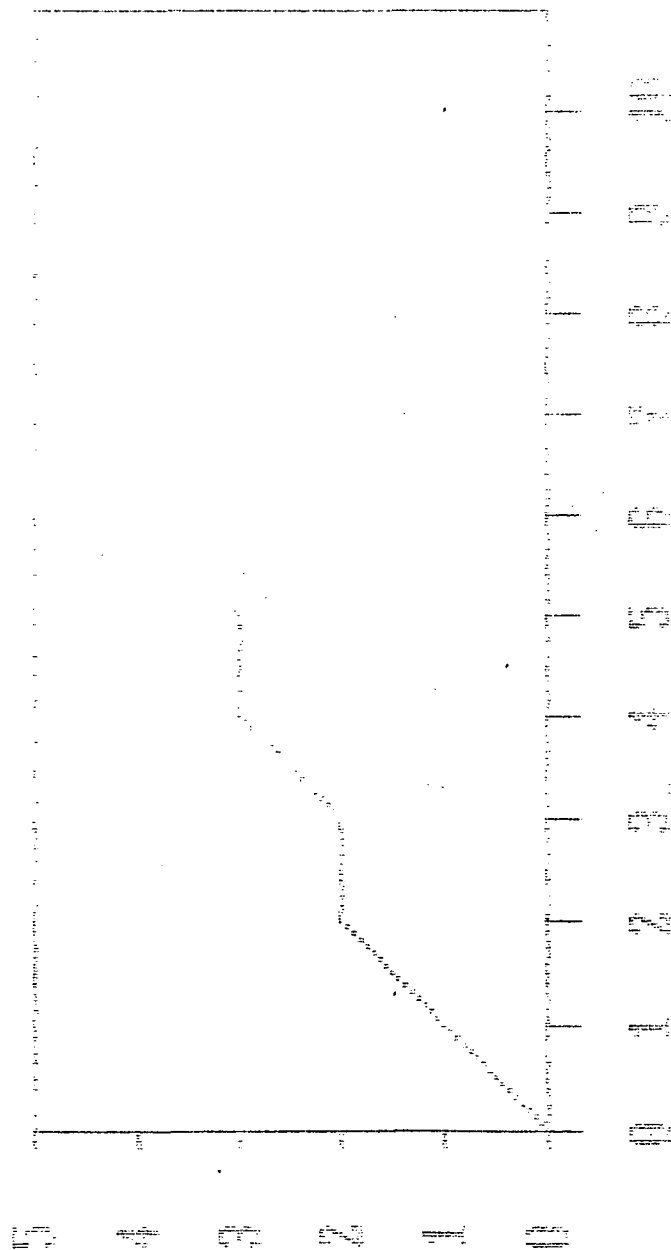


CHANDLER DUFFETT TANK

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

1942

RELATIONSHIP



RELATIONSHIP

HORN ISLAND STATION 5

15 M FROM SHORE

BOX CORER - INFAUNAL

CODE: HI5SE87.15M HORN ISLAND STA. 5 15M 14 SEPTEMBER 1987

NUM	SAMP	CUM S	CUM HK
1	4	14	1.87
2	2	18	2.09
3	3	18	2.15
4	5	19	2.23
5	1	21	2.21

ENTER TO CONTINUE?

1	Dasybranchus sp A	62
2	Lepidactylus sp A	69
3	Streptosyllis pettiboneae	60
4	Paraonis fulgens	34
5	Donax sp	32
6	Branchiostoma sp	20
7	Pinnixa chacei	15
8	Exosphaeroma diminutum	11
9	Scolecopsis squamata	11
10	Phyllodoce sp	8
11	Glycera americana	7
12	Bowmaniella floridana	5
13	Leitoscoloplos fragilis	2
14	unid bivalve	2
15	Strigilla mirabilis	1
16	Leptosynapta crassipatina	1
17	unid nemertean	1
18	Nephtys bucera	1
19	Gyptis brevipalpa	1
20	Callichirus islagrande	1
21	Spiophanes bombyx	1

TOTAL = 345

ENTER TO CONTINUE?

ESTIMATES

H'	=	2.398773
var (H')	=	3.806527E-02
J'	=	.787898
var (J')	=	4.106677E-03
N	=	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 21
NO. OF INDIVIDUALS = 345
MARGALEF DIVERSITY: 7.880783
MENHINICK DIVERSITY: 1.130602
SIMPSON DOMINANCE: .1268959
SIMPSON DIVERSITY: .8731042
INVERSE, SIMPSON DIV.: 7.880478
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .1294266
SIMPSON DIV.: .8705734
INVERSE OF DOMINANCE: 7.726388
SHANNON DIVERSITY*:
1.003486 2.310611 3.333507
BRILLOUIN DIVERSITY*:
.9598492 2.210135 3.18855
*BASE 10, BASE E, BASE 2

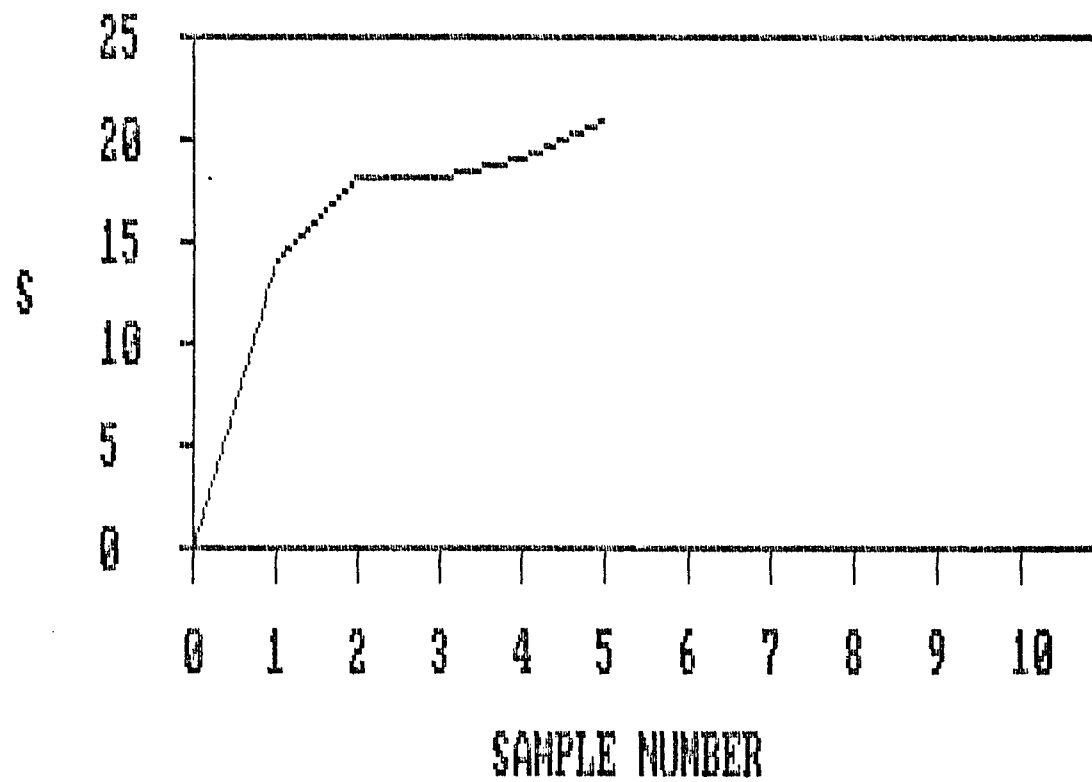
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

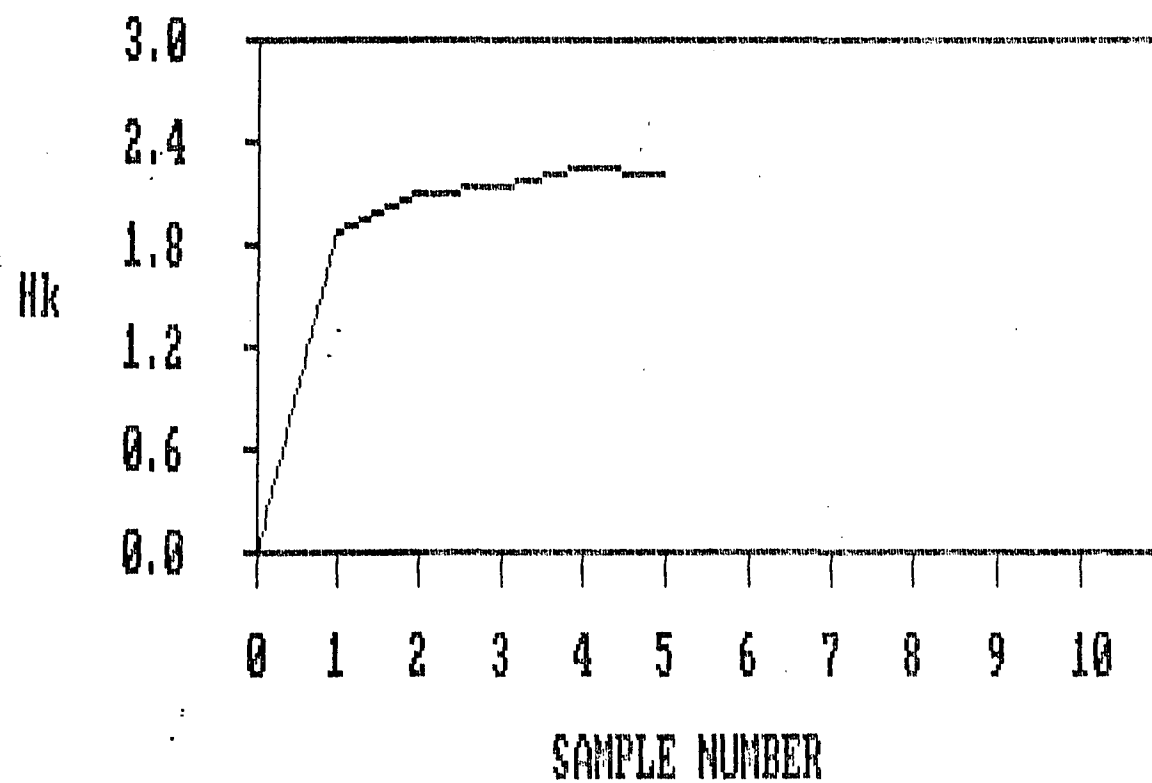
SIMPSON DIVERSITY: .9141021 .9551495
INVERSE, SIMPSON DOM.: .3534434 22.2963
SHANNON DIVERSITY: .7589405 3.044523
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7406182 2.984175
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4800278
HEIP EVENNESS: .4540292
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
---	----	-----	-----
1	7	10	1.04
2	2	14	1.10
3	3	15	1.15
4	1	15	1.12
5	6	18	1.14
6	8	19	1.17
7	9	19	1.18
8	10	19	1.13
9	5	20	1.11
10	4	22	1.09

ENTER TO CONTINUE?

1	Lepidactylus sp A	1671
2	Exosphaeroma diminutum	293
3	Paraonis fulgens	271
4	Leitoscoloplos fragilis	59
5	Scolecopsis squamata	31
6	Streptosyllis pettibonea	20
7	Callichirus islagrande	14
8	Pinnixa behreae	12
9	unid. nemertean	7
10	Branchiostoma sp.	7
11	Travisia hobsonae	5
12	Leptosynapta crassipatula	4
13	Spilocuma watlingi	4
14	Magelona sp.	2
15	Neanthes succinea	2
16	Dispio uncinata	2
17	Nephtys bucera	2
18	Glycera sp.	1
19	Meilita quinquiesperforata	1
20	Lepton cf lepidum	1

TOTAL = 2409

ENTER TO CONTINUE?

ESTIMATES

$H' = .9598744$
 $\text{var } (H') = 3.334224E-03$
 $J' = .3105342$
 $\text{var } (J') = 3.489674E-04$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 20
NO. OF INDIVIDUALS = 2409
MARGALEF DIVERSITY: 5.618249
MENHINICK DIVERSITY: .407485
SIMPSON DOMINANCE: .5093162
SIMPSON DIVERSITY: .4906838
INVERSE, SIMPSON DIV.: 1.963417
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5095199
SIMPSON DIV.: .4904801
INVERSE OF DOMINANCE: 1.962632
SHANNON DIVERSITY*:
.4777268 1.100007 1.586974
BRILLOUIN DIVERSITY*:
.471096 1.084739 1.564947
*BASE 10, BASE E, BASE 2

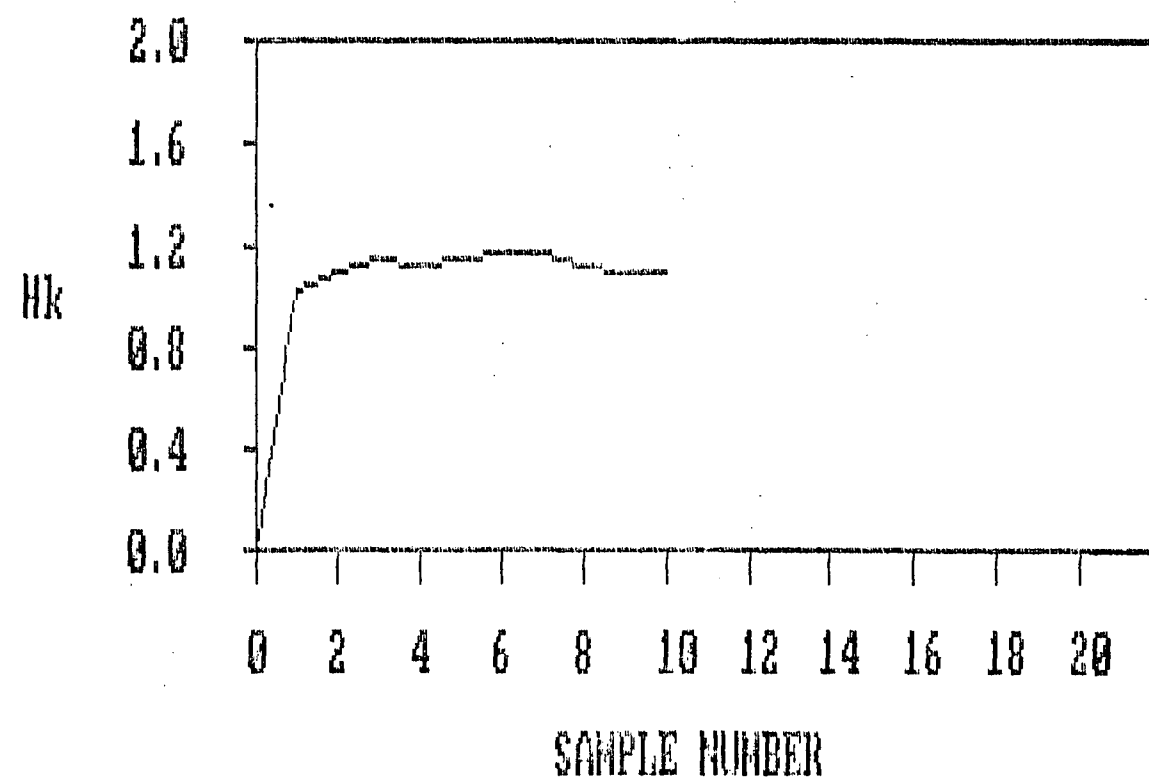
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

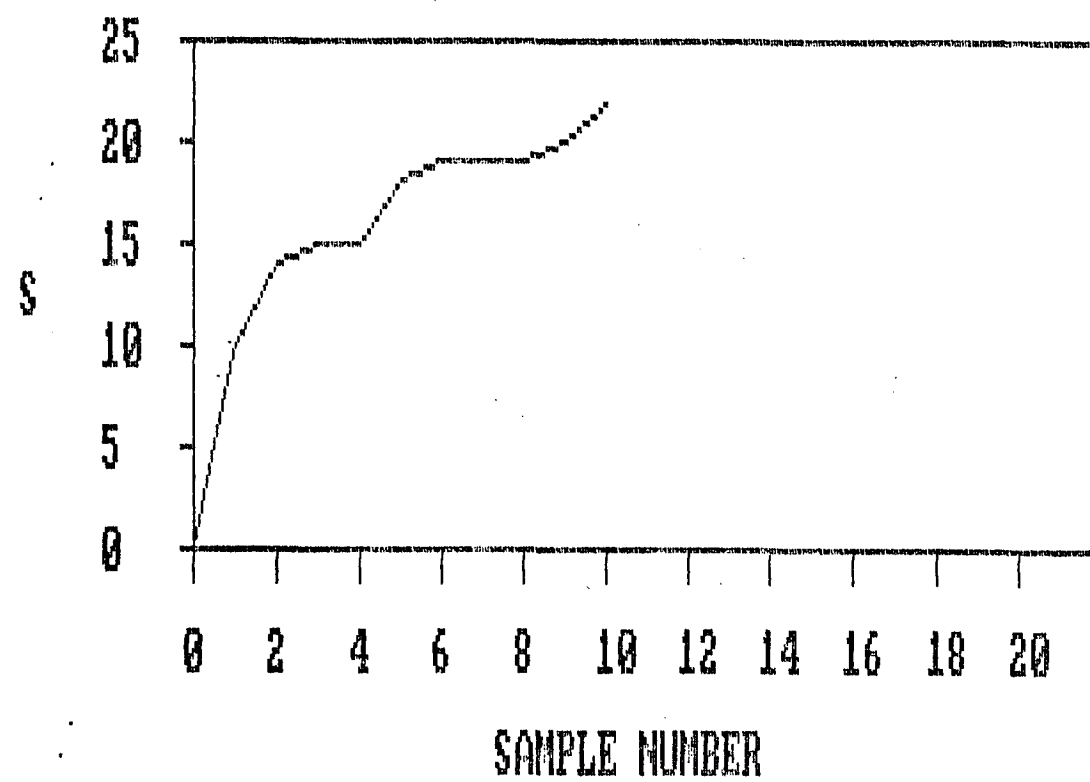
SIMPSON DIVERSITY: .5162948 .9503946
INVERSE, SIMPSON DOM.: 9.739623E-02 20.15906
SHANNON DIVERSITY: .3671913 2.995732
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .3631264 2.987221
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1502093
HEIP EVENNESS: .1054835
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



NUM	SAMP	CUM S	CUM HK
1	10	10	1.49
2	2	13	1.39
3	7	14	1.38
4	5	15	1.44
5	8	16	1.45
6	9	17	1.49
7	1	19	1.44
8	4	20	1.41
9	3	20	1.44
10	6	21	1.46

ENTER TO CONTINUE?

1	Lepidactylus sp A	1215
2	Mediomastus californiensis	420
3	Exosphaeroma diminutum	202
4	Paraonis fulgens	116
5	Leitoscoloplos fragilis	109
6	unid. nemertean	43
7	Branchiostoma sp.	33
8	Streptosyllis pettiboneae	24
9	Scololepis squamata	15
10	Pinnixa behreae	7
11	Leptosynapta crassipatina	4
12	Dispio uncinata	3
13	Spiophanes bombyx	2
14	Nephtys bucera	2
15	Meilila quinquiesperforata	2
16	Spio pettiboneae	1
17	Spilocuma watlingi	1
18	Ancinus depressus	1
19	Dasybranchus sp. A	1
20	Donax texasianus	1

TOTAL = 2202

ENTER TO CONTINUE?

ESTIMATES

$H' = 1.948447$
 $\text{var} (H') = 7.294679E-02$
 $J' = .6399846$
 $\text{var} (J') = 7.869874E-03$
 $N = 2$

NUMBER OF SPECIES = 20
NO. OF INDIVIDUALS = 2202
MARGALEF DIVERSITY: 5.683829
MENHINICK DIVERSITY: .4262078
SIMPSON DOMINANCE: .3549691
SIMPSON DIVERSITY: .6450309
INVERSE, SIMPSON DIV.: 2.817147
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .355262
SIMPSON DIV.: .644738
INVERSE OF DOMINANCE: 2.814824
SHANNON DIVERSITY*:
.6364405 1.465458 2.114209
BRILLOUIN DIVERSITY*:
.6289467 1.448203 2.089316
*BASE 10, BASE E, BASE 2

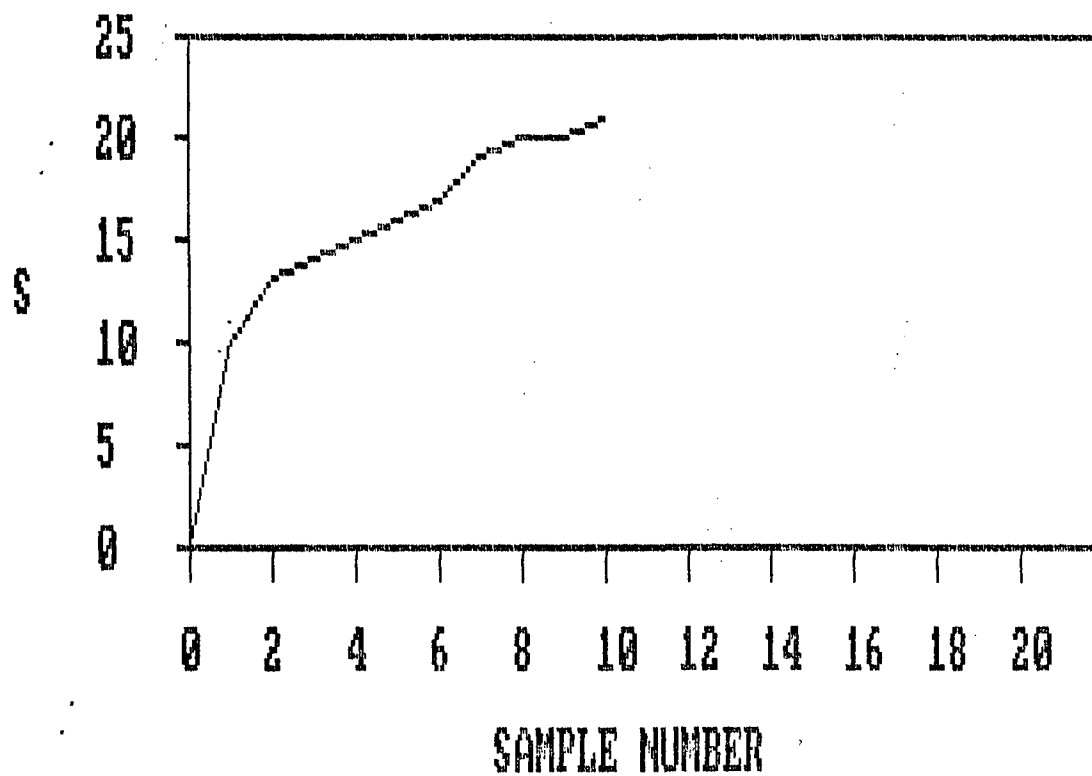
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

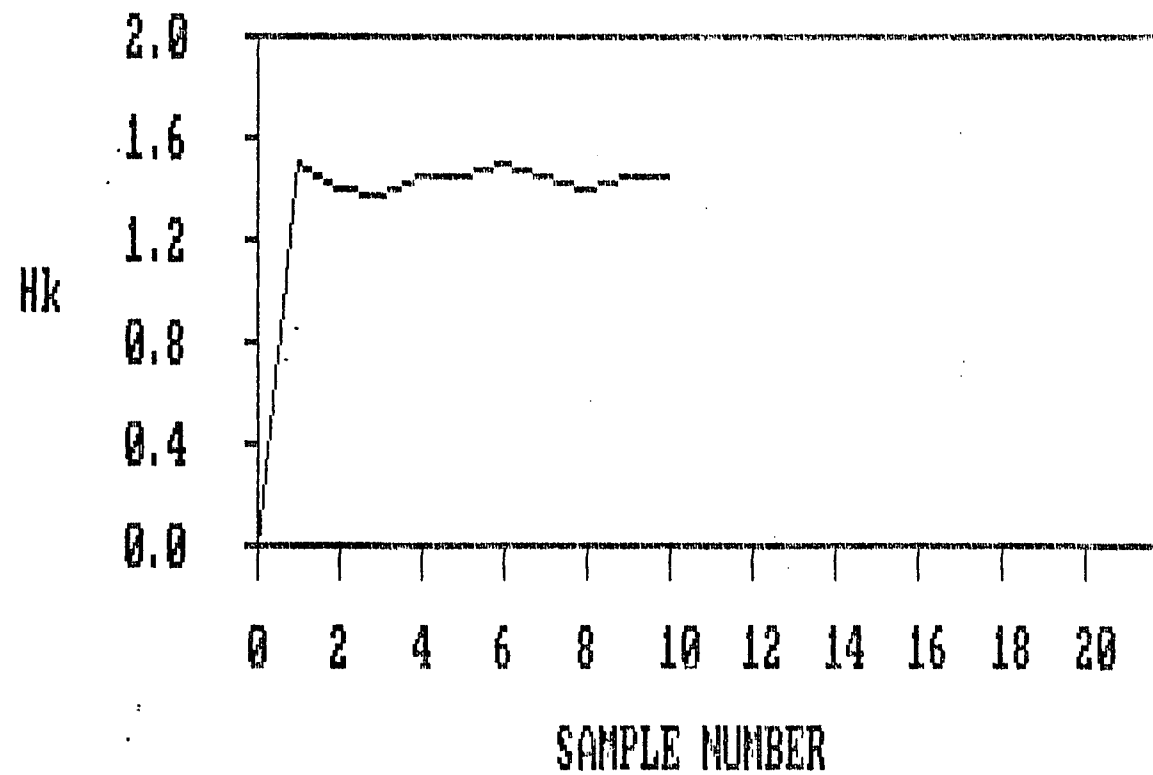
SIMPSON DIVERSITY: .6786715 .9504316
INVERSE, SIMPSON DOM.: .1396414 20.17415
SHANNON DIVERSITY: .489182 2.995732
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4872403 2.972257
(MAX. IS IN BASE E)
SHELDON EVENNESS: .2164764
HEIP EVENNESS: .1752383
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
---	----	-----	-----
1	7	12	1.62
2	1	14	1.36
3	4	16	1.60
4	3	18	1.67
5	6	20	1.73
6	9	26	1.75
7	8	27	1.78
8	2	28	1.77
9	5	28	1.76
10	10	30	1.83

ENTER TO CONTINUE?

1	Lepidactylus sp A	708
2	Paraonis fulgens	255
3	Mediomastus californiensis	181
4	Leitoscoloplos fragilis	151
5	Exosphaeroma diminutum	79
6	Streptosyllis pettiboneae	66
7	Branchiostoma sp	37
8	unid nemertean	26
9	Spilocuma watlingi	24
10	Nephtys bucera	20
11	Spiophanes bombyx	12
12	Neanthes cf acuminata	5
13	Ensis minor	5
14	Dasybranchus sp A	3
15	Scolecopsis squamata	3
16	Eteone heteropoda	2
17	Hemipodus roseus	2
18	Dispio uncinata	2
19	Mellita quinquesperforata	2
20	Travisia hobsonae	1
21	Oxyurostylis smithi	1
22	Pinnixa behreae	1
23	Poecilochaetus johnsoni	1
24	Glycera dibranchiata	1
25	Kalliapseudes sp A	1
26	Callichirus islagrande	1
27	Spio pettiboneae	1
28	unid burrowing anemone	1
29	unid polychaete	1
30	Leptosynapta crassipatina	1

TOTAL = 1594

ENTER TO CONTINUE?

ESTIMATES

$H' = 1.997037$
 $\text{var } (H') = 4.930759\text{E-}02$
 $J' = .5871569$
 $\text{var } (J') = 4.262359\text{E-}03$
 $N = 4$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 30
NO. OF INDIVIDUALS = 1594
MARGALEF DIVERSITY: 9.055459
MENHINICK DIVERSITY: .7514102
SIMPSON DOMINANCE: .2497257
SIMPSON DIVERSITY: .7502743
INVERSE, SIMPSON DIV.: 4.004394
IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .2501964
 SIMPSON DIV.: .7498036
 INVERSE OF DOMINANCE: 3.99686
SHANNON DIVERSITY*:
 .8070496 1.8583 2.680961
BRILLOUIN DIVERSITY*:
 .7930405 1.826043 2.634424
 *BASE 10, BASE E, BASE 2

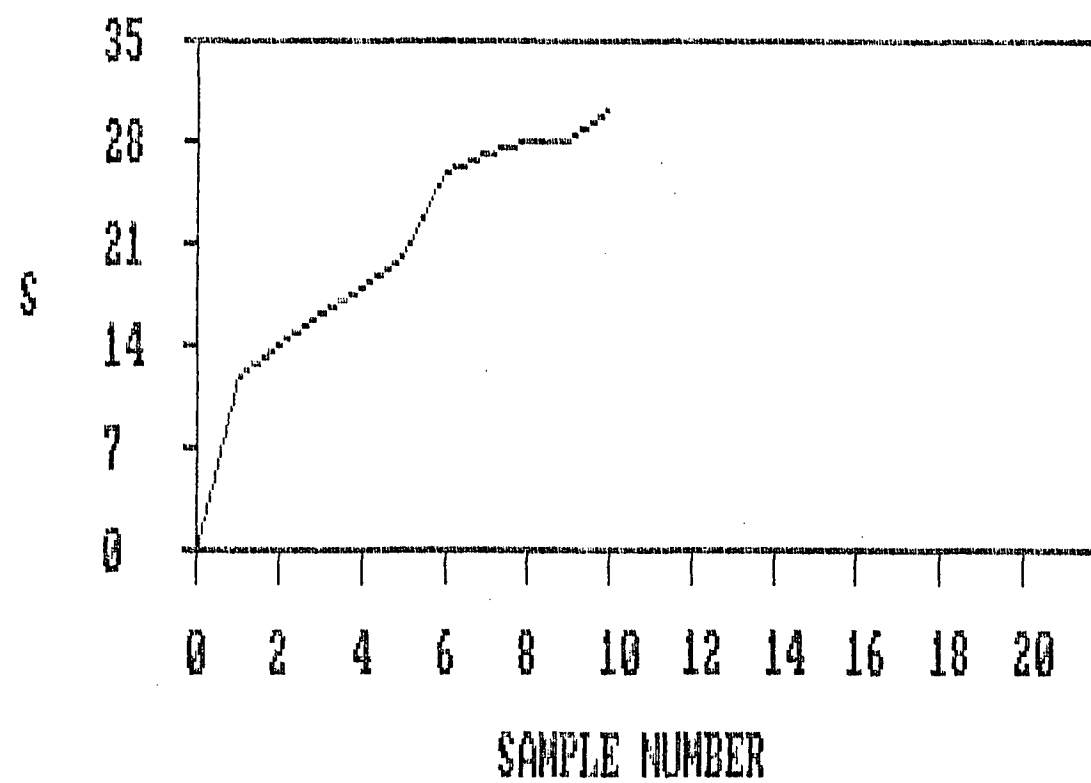
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

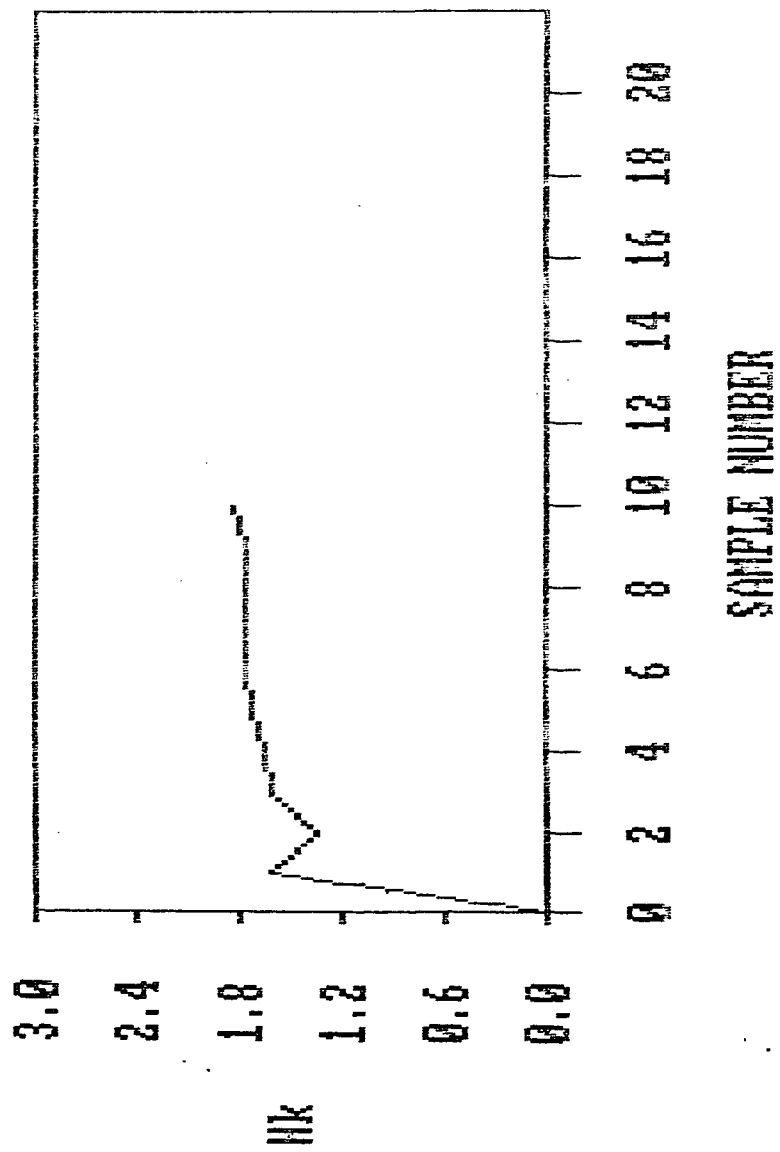
SIMPSON DIVERSITY: .7756589 .9672735
INVERSE, SIMPSON DOM.: .1310498 30.55626
SHANNON DIVERSITY: .5463665 3.401197
 (MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5436212 3.359036
 (MAX. IS IN BASE E)
SHELDON EVENNESS: .213761
HEIP EVENNESS: .1866493
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
---	----	-----	-----
1	3	13	1.47
2	1	20	1.66
3	4	21	1.60
4	8	26	1.63
5	9	26	1.63
6	6	26	1.64
7	7	27	1.62
8	2	28	1.64
9	5	28	1.63

ENTER TO CONTINUE?

1	Streptosyllis pettiboneae	748
2	Mediomastus californiensis	583
3	Lepidactylus sp A	576
4	Paraonis fulgens	59
5	Exosphaeroma diminutum	41
6	Nephtys bucera	40
7	Leitoscoloplos fragilis	40
8	Pinnixa behreae	16
9	Kalliapseudes sp. A	15
10	unid. nemertean	11
11	Eteone heteropoda	7
12	Leptosynapta crassipatina	6
13	Spilocuma watlingi	6
14	Pinnixa sp. A	6
15	Donax variabilis	6
16	Spiophanes bombyx	5
17	Hemipodus roseus	4
18	Mellita quinquiesperforata	4
19	Magelona sp.	3
20	Dasybranchus sp. A	2
21	Limulus polyphemus	2
22	Dispio uncinata	1
23	Coronis excavatrix	1
24	Branchiostoma sp.	1
25	Callianassa major	1
26	Bowmanella floridana	1
27	Scyphacella arenicola	1

TOTAL = 2186

ENTER TO CONTINUE?

ESTIMATES

```

H' = 1.641629
var (H') = 1.544285E-03
J' = .4926556
var (J') = 1.390798E-04
N = 5

```

ENTER TO CONTINUE?

```

NUMBER OF SPECIES = 27
NO. OF INDIVIDUALS = 2186
MARGALEF DIVERSITY: 7.785246
MENHINICK DIVERSITY: .5774823
SIMPSON DOMINANCE: .2592365
SIMPSON DIVERSITY: .7407634
INVERSE, SIMPSON DIV.: 3.857481
IF NOT A RANDOM SAMPLE:
  SIMPSON DOMINANCE: .2595754
  SIMPSON DIV.: .7404246
  INVERSE OF DOMINANCE: 3.852445
SHANNON DIVERSITY*:
  .7162571 1.649243 2.379355
BRILLOUIN DIVERSITY*:
  .7063251 1.626374 2.346361
*BASE 10, BASE E, BASE 2

```

ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

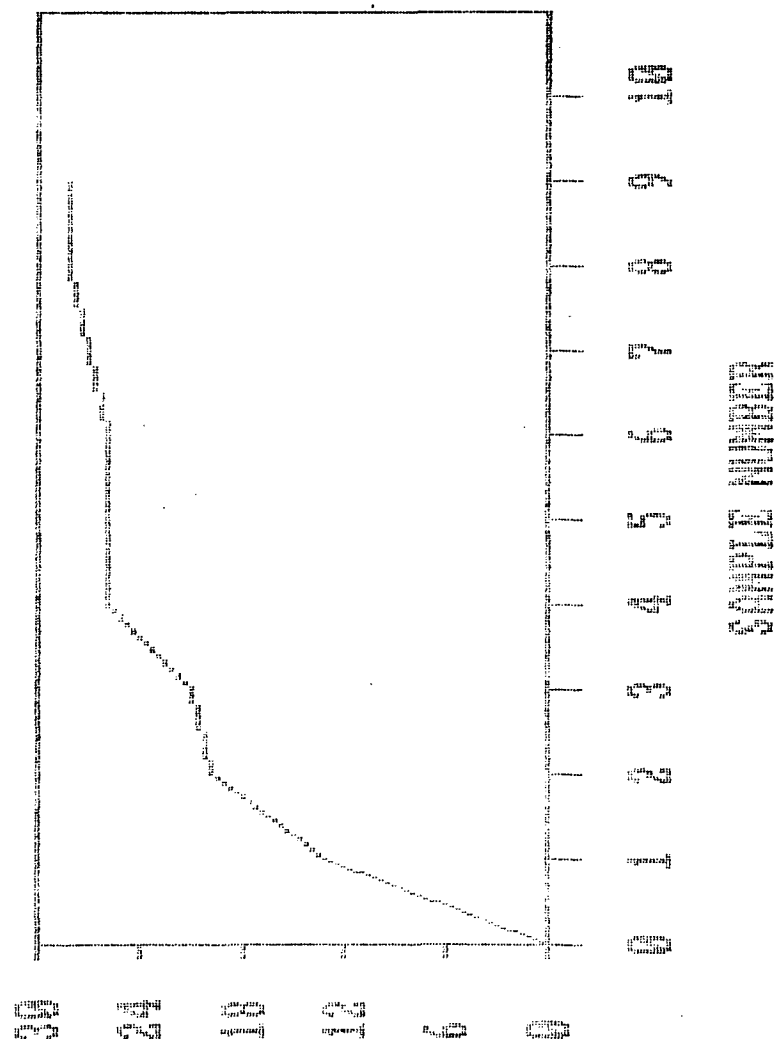
```

SIMPSON DIVERSITY: .7689024 .9634037
INVERSE, SIMPSON DOM.: .1411696 27.32515
SHANNON DIVERSITY: .5004019 3.295837
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4913741 3.309849
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1927052
HEIP EVENNESS: .1616554
(ABOVE TWO USE BASE E)

```

ENTER TO CONTINUE?

END VIEW



CODE: HI5JL88.15M

HORN ISLAND

STA 5 15M

5 JULY 1988

NUM	SAMP	CUM S	CUM HK
1	6	19	1.55
2	5	23	1.59
3	10	25	1.53
4	7	26	1.57
5	1	27	1.78
6	2	28	1.86
7	3	29	1.89
8	9	33	1.89
9	3	33	1.92
10	4	34	1.93

RANK	TAXON	NUMBER
1	Streptosyllis pettiboneae	1329
2	Branchiostoma sp	479
3	Mediomastus californiensis	190
4	Lepidactylus sp A	184
5	Paraonis fulgens	181
6	Leitoscoloplos fragilis	177
7	Neanthes sp	141
8	Spio pettiboneae	52
9	Pinnixa behreae	25
10	Spiophanes bombyx	21
11	Neanthes acuminata	20
12	Nephtys bucera	19
13	Loimia cf viridis	19
14	Phyllodoce arenae	17
15	unid nemertean	17
16	unid paraonid	11
17	Kalliapseudes sp A	8
18	Oxyurostylis smithi	7
19	Spilocuma watlingi	7
20	Eteone heteropoda	6
21	Dispio uncinata	5
22	Mellita quinquiesperforata	5
23	Magelona sp A	4
24	Leptosynapta crassipatina	3
25	Prionospio pygmaea	3
26	Matobranchus variabilis	2
27	Mulinia lateralis	2
28	Armandia maculata	2
29	Exosphaeroma diminutum	2
30	Melinna maculata	2
31	Callinectes islagrande	2
32	Chone cf americana	1
33	Paranaitis speciosa	1

ESTIMATES

TOTAL = 2944

$\bar{H} = 1.368 \times 10$
 $\text{var}(\bar{H}) = 5.514251E-03$
 $\bar{J} = .5567012$
 $\text{var}(\bar{J}) = 4.434352E-04$
 $N = 7$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 33
NO. OF INDIVIDUALS = 2944
MARGALEF DIVERSITY: 9.224727
MENHINICK DIVERSITY: .6081981
SIMPSON DOMINANCE: .2484437
SIMPSON DIVERSITY: .7515563
INVERSE, SIMPSON DIV.: 4.025057
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .248699
SIMPSON DIV.: .751301
INVERSE OF DOMINANCE: 4.020925
SHANNON DIVERSITY*:
.8487765 1.95438 2.819575
BRILLOUIN DIVERSITY*:
.8386619 1.93109 2.785975
*BASE 10, BASE E, BASE 2

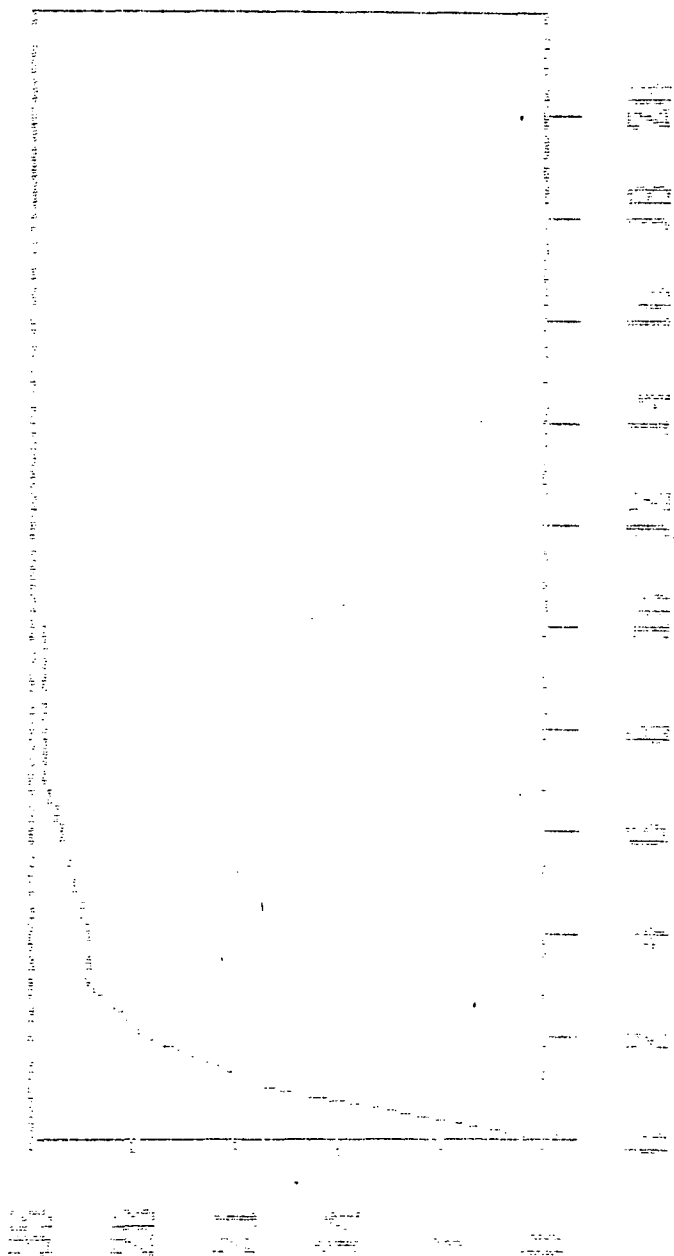
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .7747792 .9700264
INVERSE, SIMPSON DOM.: .1206452 33.36276
SHANNON DIVERSITY: .558952 3.496508
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5560199 3.47306
(MAX. IS IN BASE E)
SHELDON EVENNESS: .2139255
HEIP EVENNESS: .1893607
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SECRET-NO CODE



SECRET-NO CODE

COINTEGRATING VECTOR AUTOREGRESSION

1994



COINTEGRATING VECTOR AUTOREGRESSION

COINTEGRATING VECTOR AUTOREGRESSION

HORN ISLAND STATION 7

SWASH ZONE

BOX CORER - INFAUNAL

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	3	3	0.60
2	4	3	0.66
3	1	4	0.70
4	5	4	0.66
5	2	4	0.80

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scolecopsis squamata	23
2	Donax variabilis	6
3	Emerita talpoida	4
4	Haustorius sp A	1

TOTAL = 34

ENTER TO CONTINUE?

ESTIMATES

$H' = .7946577$
 $\text{var } (H') = .2168372$
 $J' = .5732243$
 $\text{var } (J') = .1128296$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 34
MARGALEF DIVERSITY: 1.958891
MENHINICK DIVERSITY: .6859944
SIMPSON DOMINANCE: .4884135
SIMPSON DIVERSITY: .5115864
INVERSE, SIMPSON DIV.: 2.047445 .
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5034602
SIMPSON DIV.: .4965398
INVERSE OF DOMINANCE: 1.986254
SHANNON DIVERSITY*:
.4021587 .9260048 1.335943
BRILLOUIN DIVERSITY*:
.3476508 .8004955 1.154871
*BASE 10, BASE E, BASE 2

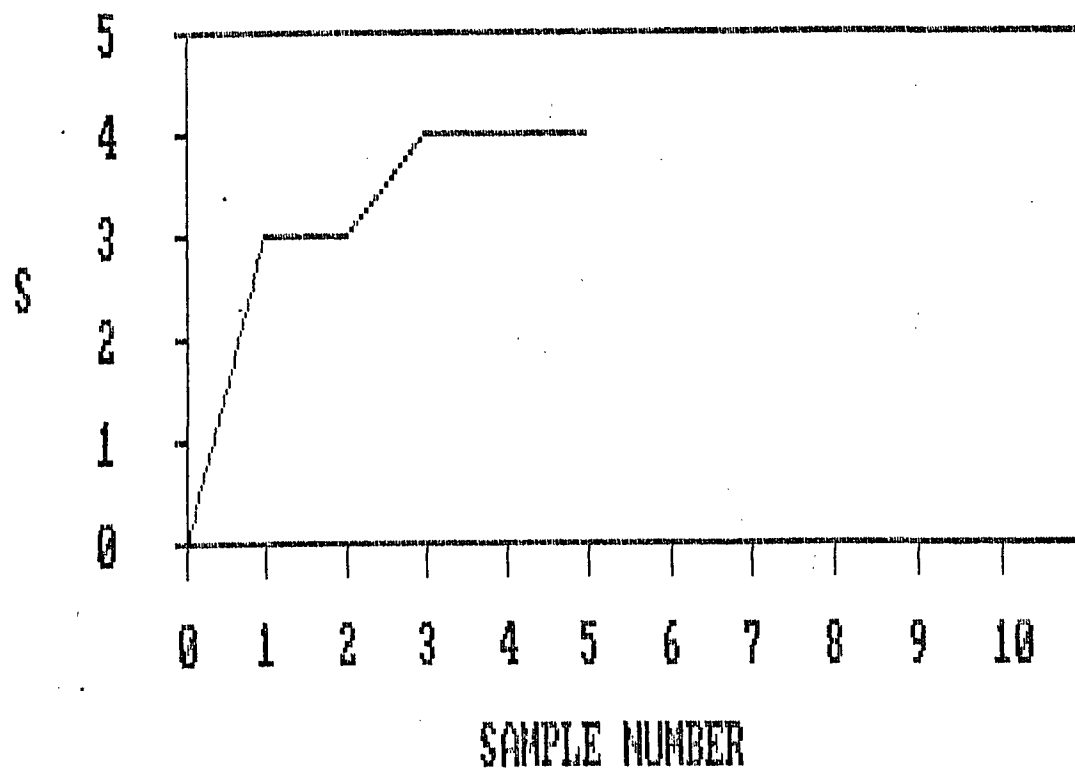
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

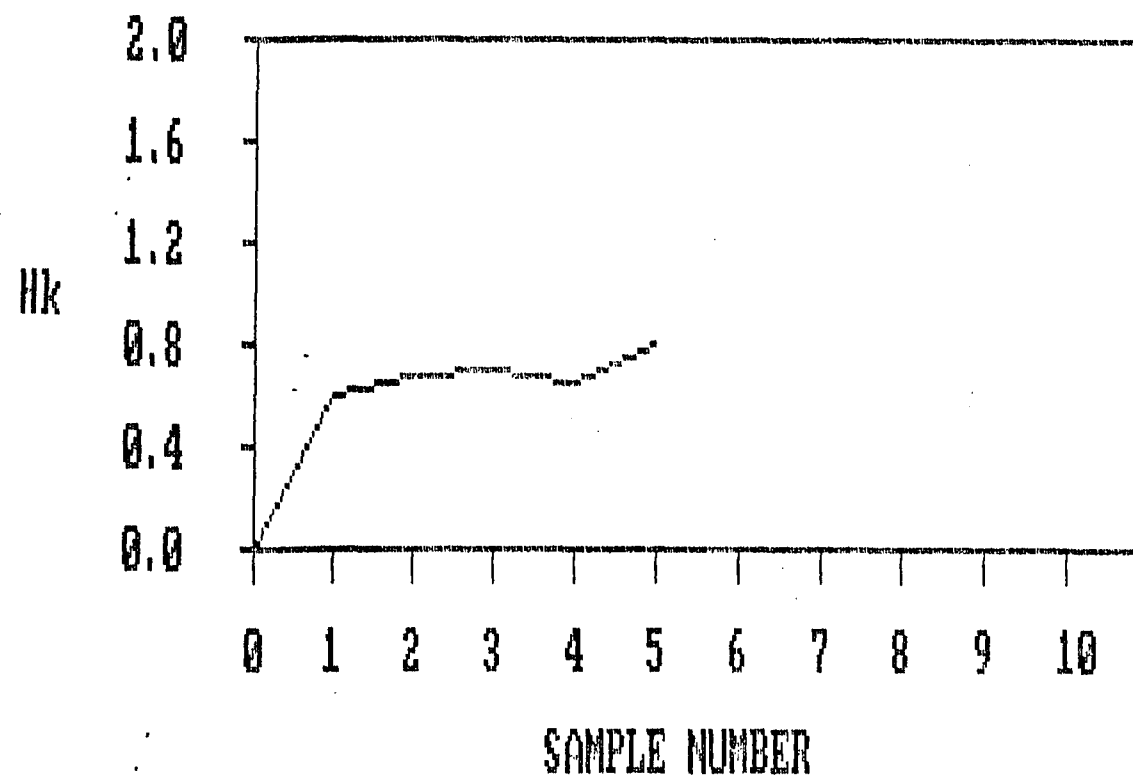
SIMPSON DIVERSITY: .662053 .7727273
INVERSE, SIMPSON DOM.: .4653285 4.4
SHANNON DIVERSITY: .6679713 1.386294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .6039625 1.325406
(MAX. IS IN BASE E)
SHELDON EVENNESS: .6311009
HEIP EVENNESS: .5081345
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: HI7N087.SWA HORN ISLAND STA. 7 SWASH 19 NOVEMBER 1987

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	4	0	0.00
2	1	3	0.21
3	2	3	0.19
4	3	4	0.35
5	5	5	0.56

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	35
2	Emerita talpoida	2
3	Scoelelepis squamata	2
4	Donax variabilis	2
5	Metamysidopsis swifti	1

	TOTAL =	42

ENTER TO CONTINUE?

ESTIMATES

H' =	2.204156
var (H') =	1.152597
J' =	1.369519
var (J') =	.4449683
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 42
MARGALEF DIVERSITY: 2.464193
MENHINICK DIVERSITY: .7715167
SIMPSON DOMINANCE: .6945412
SIMPSON DIVERSITY: .3054588
INVERSE, SIMPSON DIV.: 1.439799
IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .7018141
 SIMPSON DIV.: .2981659
 INVERSE OF DOMINANCE: 1.424879
SHANNON DIVERSITY*:
 .2935216 .6758586 .9750578
BRILLOUIN DIVERSITY*:
 .2435799 .5608635 .809155
*BASE 10, BASE E, BASE 2

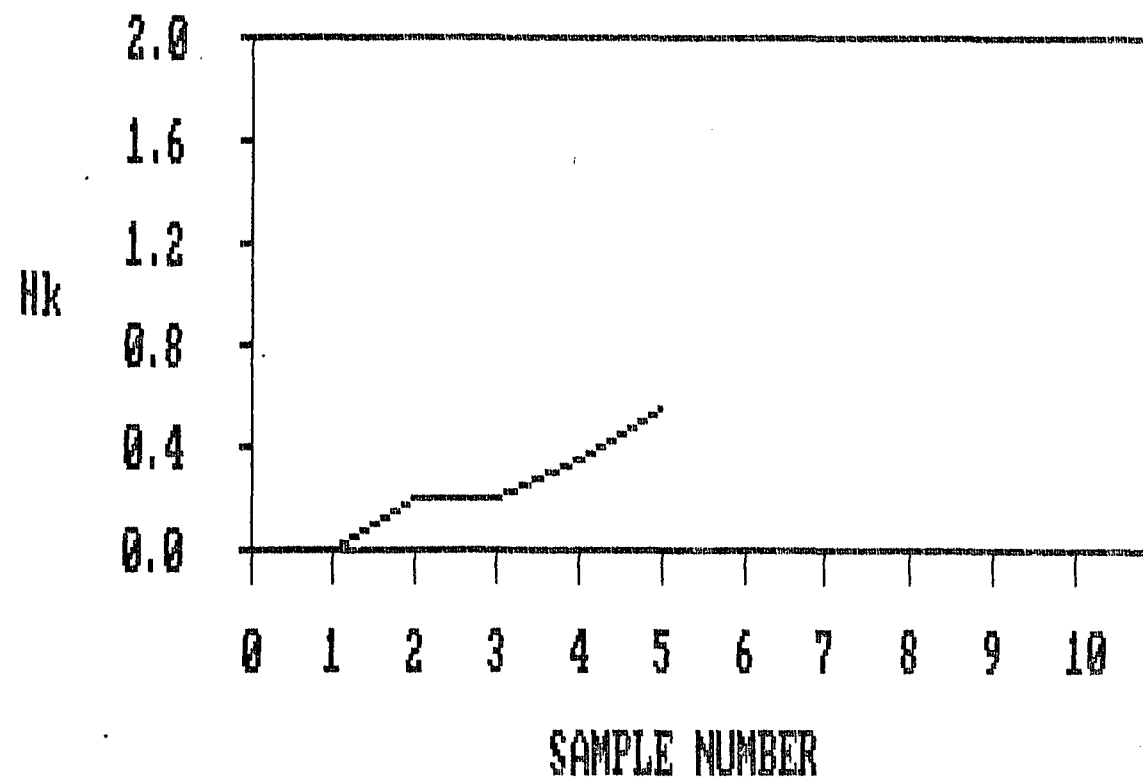
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

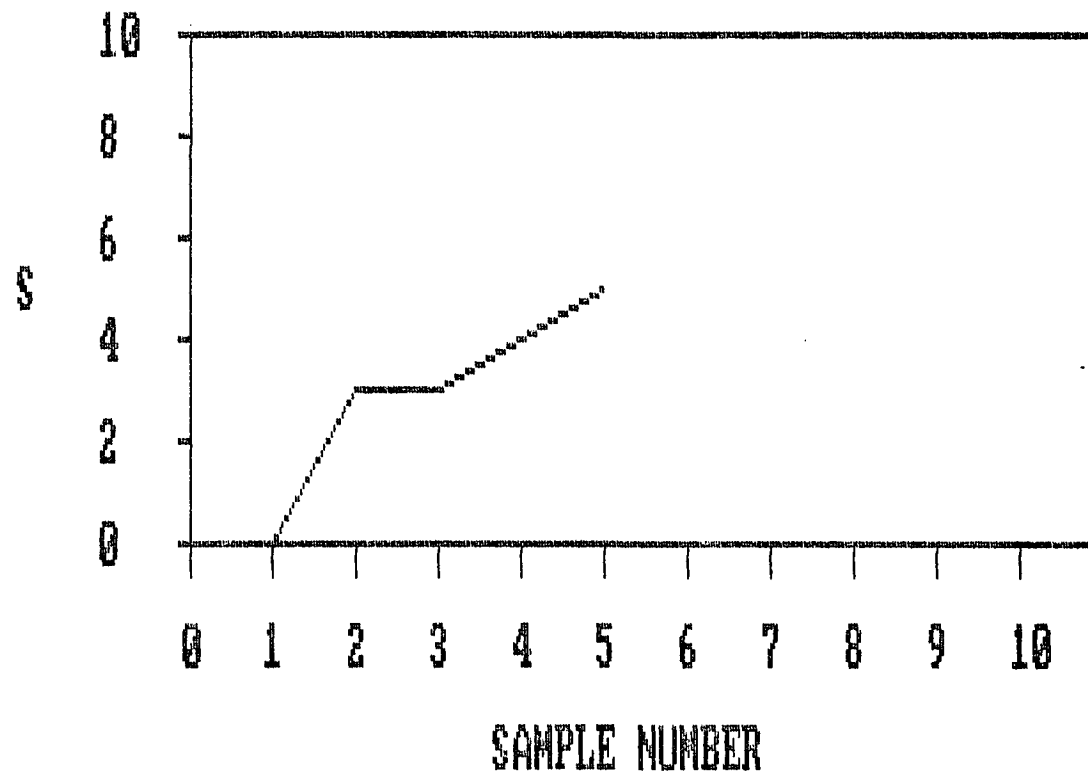
SIMPSON DIVERSITY: .3727325 .8195122
INVERSE, SIMPSON DOM.: .2598662 5.540541
SHANNON DIVERSITY: .4199346 1.609438
 (MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .3688159 1.520714
 (MAX. IS IN BASE E)
SHELDON EVENNESS: .393144
HEIP EVENNESS: .24143
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: HI7JA88.SWA HORN ISLAND STA. 7 SWASH 28 JANUARY 1988

NUM ---	SAMP ---	CUM S ---	CUM HK ---
1	4	1	0.00
2	1	2	0.16
3	5	2	0.15
4	2	2	0.14
5	3	2	0.12

ENTER TO CONTINUE?

RANK ---	TAXON ---	NUMBER ---
1	Haustorius sp A	26
2	Emerita talpoida	1

TOTAL =		27

ENTER TO CONTINUE?

ESTIMATES

H'	=	4.645051E-02
var (H')	=	1.322245E-05
J'	=	6.701392E-02
var (J')	=	2.75208E-05
N	=	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 2
NO. OF INDIVIDUALS = 27
MARGALEF DIVERSITY: .6986345
MENHINICK DIVERSITY: .3849002
SIMPSON DOMINANCE: .9259259
SIMPSON DIVERSITY: 7.407409E-02
INVERSE, SIMPSON DIV.: 1.08
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .9286694
SIMPSON DIV.: 7.133061E-02
INVERSE OF DOMINANCE: 1.07681
SHANNON DIVERSITY*:
6.879682E-02 .1584105 .2285381
BRILLOUIN DIVERSITY*:
5.301342E-02 .1220679 .1761068
*BASE 10, BASE E, BASE 2

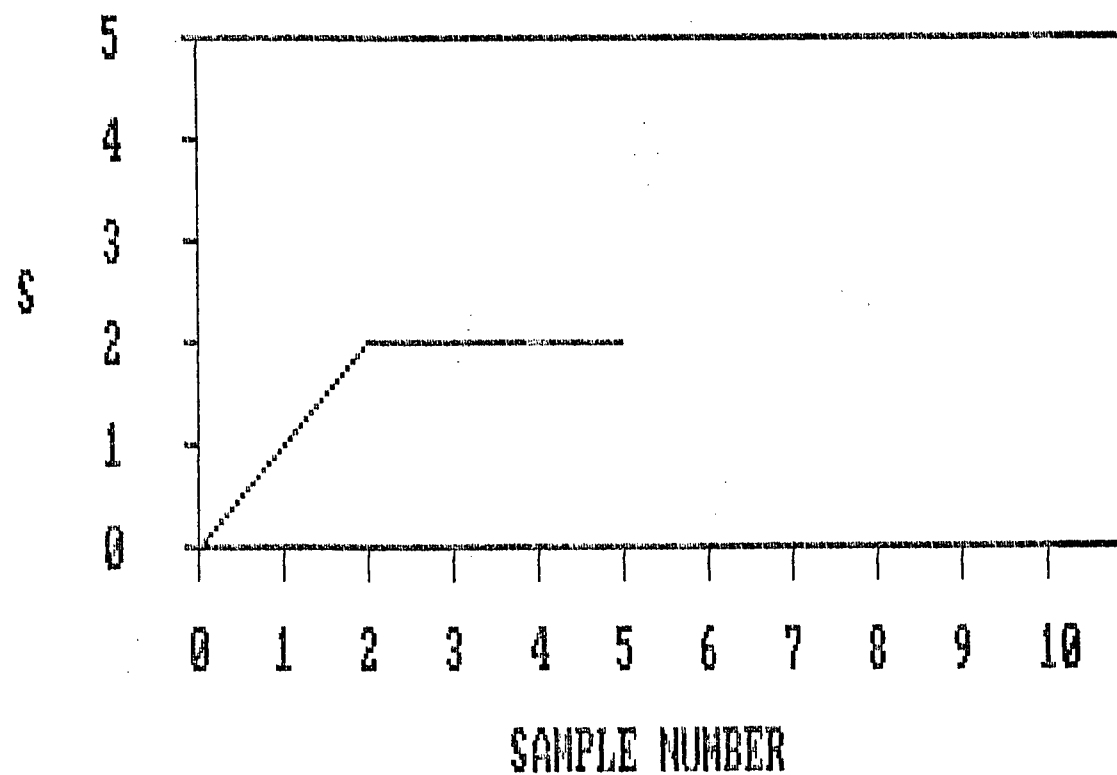
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

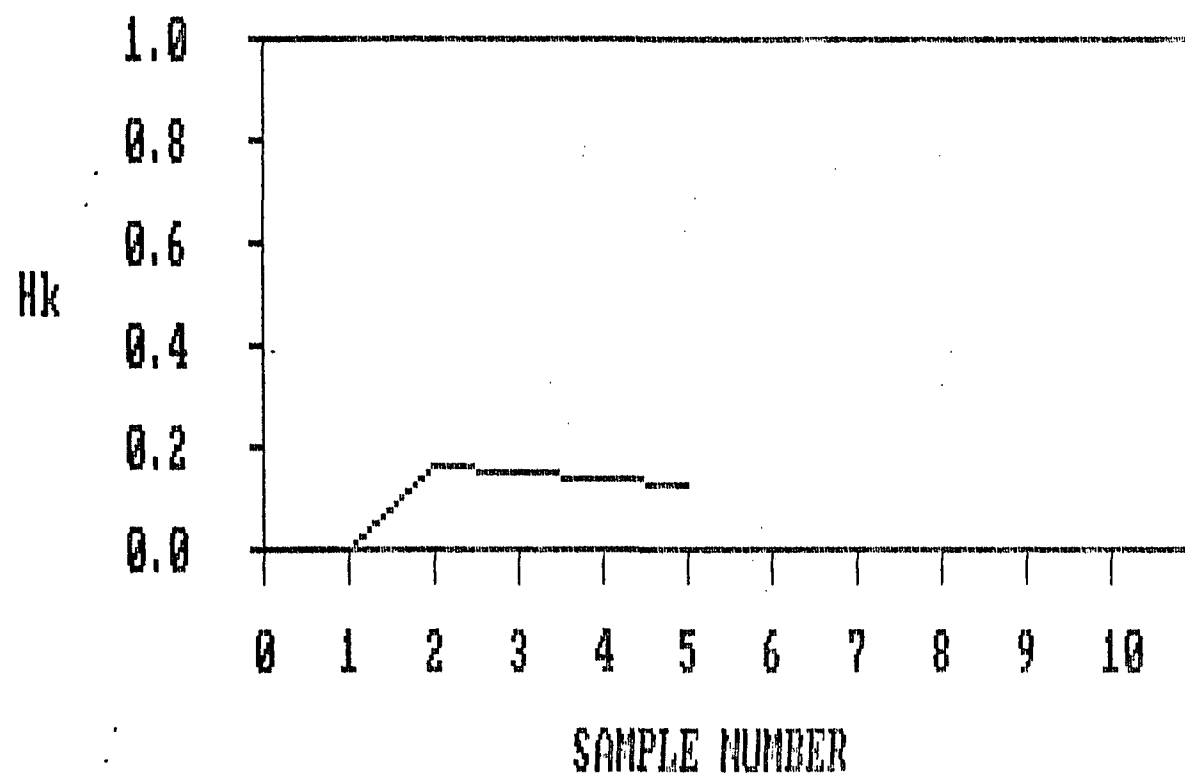
SIMPSON DIVERSITY: .1426612 .5192308
INVERSE, SIMPSON DOM.: .5192308 2.08
SHANNON DIVERSITY: .2285381 .6931472
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1817521 .6716176
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5858235
HEIP EVENNESS: .1716471
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: HI7MR88.SWA HORN ISLAND STA. 7 SWASH 15 MARCH 1988

NUM	SAMP	CUM S	CUM HK
----	-----	-----	-----
1	3	2	0.37
2	5	4	0.87
3	4	6	1.13
4	1	6	1.14
5	2	6	1.06

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scoelelepis squamata	27
2	Haustorius sp A	7
3	Spilocuma salomani	4
4	Donax variabilis	3
5	Emerita talpoida	2
6	Lepidactylus sp A	1

TOTAL =		44

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.016368
var (H')	=	1.815975E-02
J'	=	.5672457
var (J')	=	5.656534E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
 NO. OF INDIVIDUALS = 44
 MARGALEF DIVERSITY: 3.042376
 MENHINICK DIVERSITY: .904534
 SIMPSON DOMINANCE: .4038055
 SIMPSON DIVERSITY: .5961945
 INVERSE, SIMPSON DIV.: 2.47644
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .4173554
 SIMPSON DIV.: .5826446
 INVERSE OF DOMINANCE: 2.39604
 SHANNON DIVERSITY*:
 .5297215 1.219729 1.759697
 BRILLOUIN DIVERSITY*:
 .4596773 1.058446 1.527015
 *BASE 10, BASE E, BASE 2

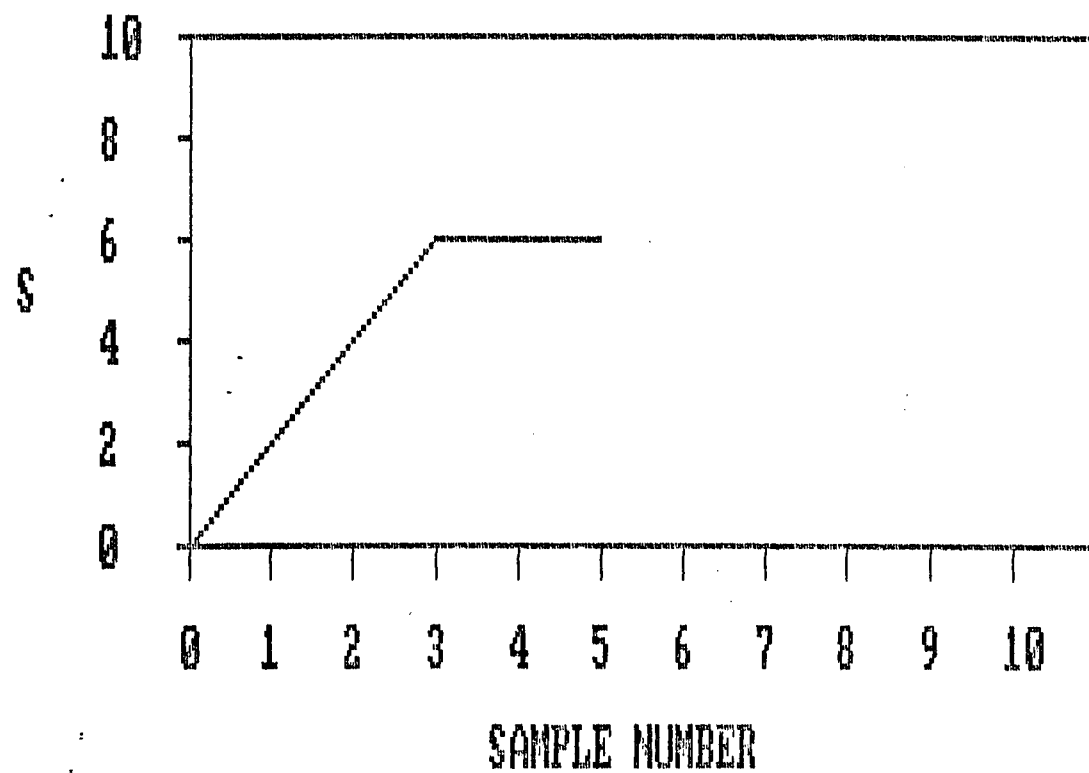
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

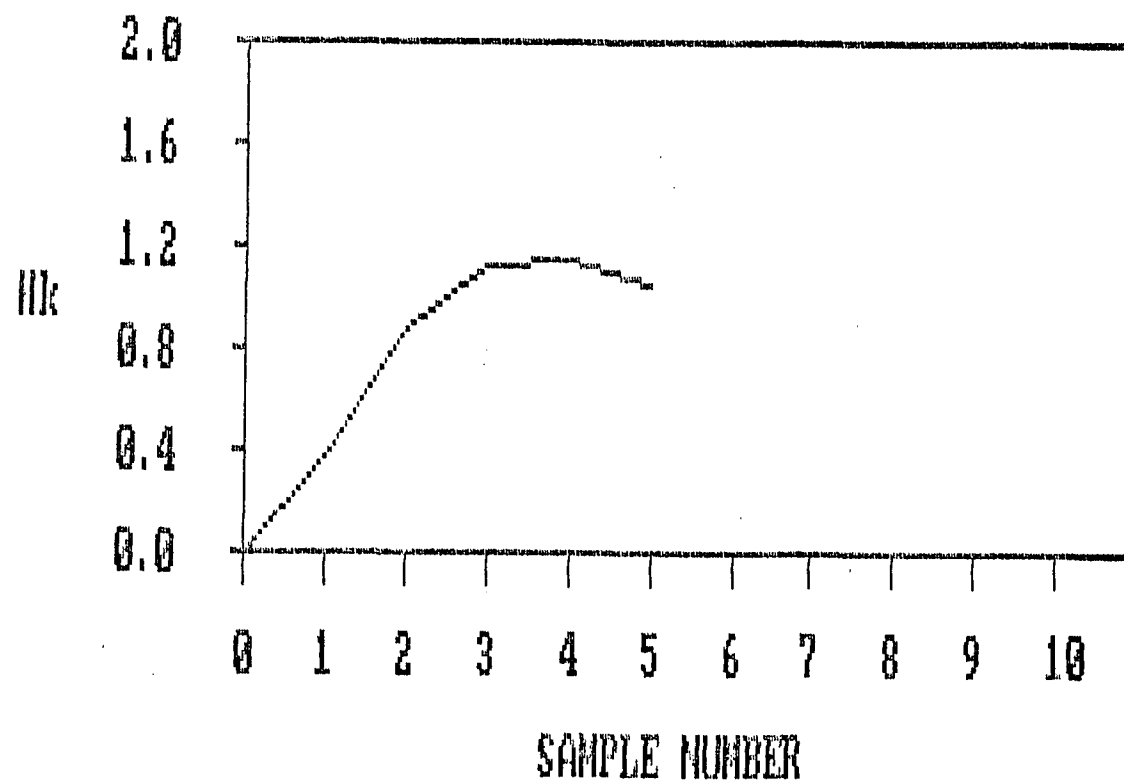
SIMPSON DIVERSITY: .6991736 .8527132
 INVERSE, SIMPSON DOM.: .3647469 6.789474
 SHANNON DIVERSITY: .6807437 1.791759
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .6338592 1.669844
 (MAX. IS IN BASE E)
 SHELTON EVENNESS: .5643783
 HEIP EVENNESS: .4772539
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: HI7MA88.SWA HORN ISLAND STA. 7 SWASH 18 MAY 1988

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	4	3	0.71
2	3	4	0.82
3	5	5	1.06
4	2	5	0.88
5	1	5	0.93

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	71
2	Donax variabilis	27
3	Ancinus depressus	7
4	Spilocuma salomani	4
5	Scolecopsis squamata	2

TOTAL = 111

ENTER TO CONTINUE?

ESTIMATES

H'	=	.9188788
var (H')	=	3.234214E-02
J'	=	.5709315
var (J')	=	1.248591E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 111
MARGALEF DIVERSITY: 1.955681
MENHINICK DIVERSITY: .474579
SIMPSON DOMINANCE: .4691237
SIMPSON DIVERSITY: .5308763
INVERSE, SIMPSON DIV.: 2.131634
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4739063
SIMPSON DIV.: .5260937
INVERSE OF DOMINANCE: 2.110122
SHANNON DIVERSITY*:
.432601 .9961006 1.437069
BRILLOUIN DIVERSITY*:
.4044681 .9313223 1.343614
*BASE 10, BASE E, BASE 2

ENTER TO CONTINUE?

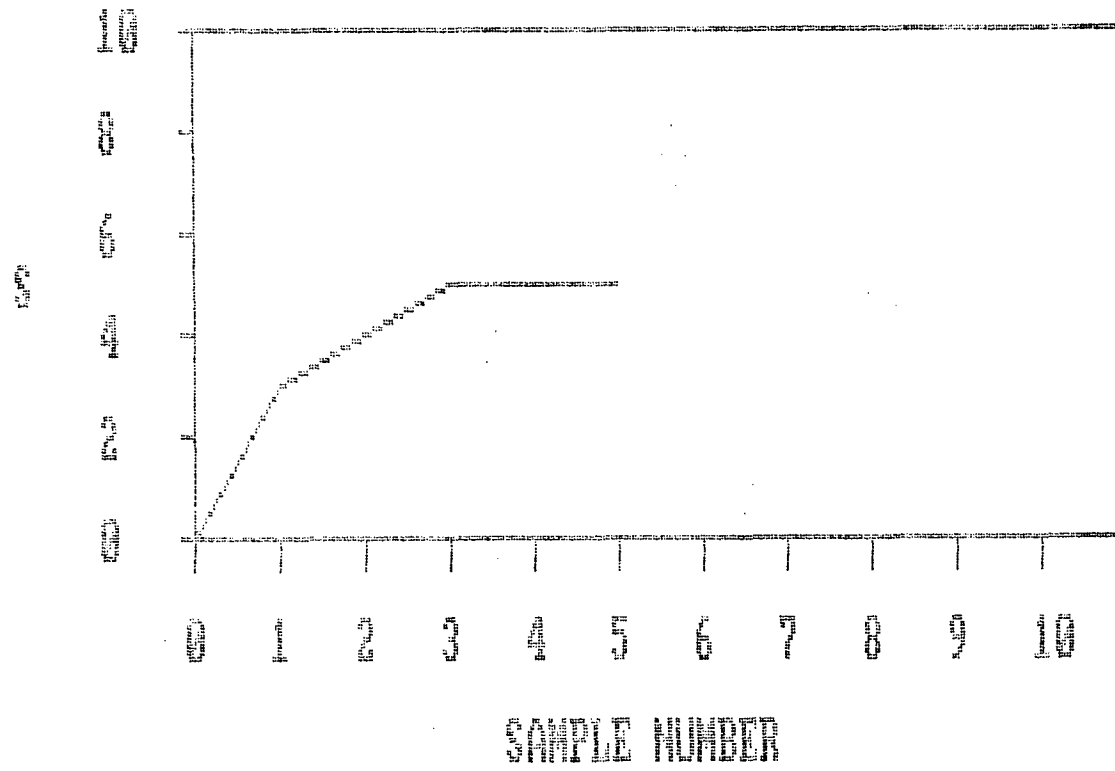
EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .6576171 .8072727
INVERSE, SIMPSON DOM.: .410824 5.188679
SHANNON DIVERSITY: .6189121 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .6008556 1.549994
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5415406
HEIP EVENNESS: .4269257
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

[illegible]

SPECIES-AREA CURVE



CODE: H17JL88.SWA

HORN ISLAND

STA. 7

SWASH

28 JULY 1988

NUM

SAMP

CUM S

CUM HK

1	3	1	0.00
2	5	2	0.26
3	2	5	1.08
4	4	5	1.15
5	1	6	1.19

ENTER TO CONTINUE?

RANK

TAXON

NUMBER

1	Emerita talpoida	15
2	Haustorius sp A	15
3	Donax variabilis	3
4	Diastoma varium	3
5	Spilocuma salomani	2
6	Lepidopa benedicti	1

TOTAL = 39

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.169998
var (H')	=	6.552017E-02
J'	=	.6529881
var (J')	=	2.040871E-02
N	=	4

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
NO. OF INDIVIDUALS = 39
MARGALEF DIVERSITY: 3.14255
MENHINICK DIVERSITY: .9607689
SIMPSON DOMINANCE: .2928475
SIMPSON DIVERSITY: .7071525
INVERSE, SIMPSON DIV.: 3.414747
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3109796
SIMPSON DIV.: .6890204
INVERSE OF DOMINANCE: 3.215645
SHANNON DIVERSITY*:
.5975383 1.375883 1.984979
BRILLOUIN DIVERSITY*:
.5184425 1.193758 1.722229
*BASE 10, BASE E, BASE 2

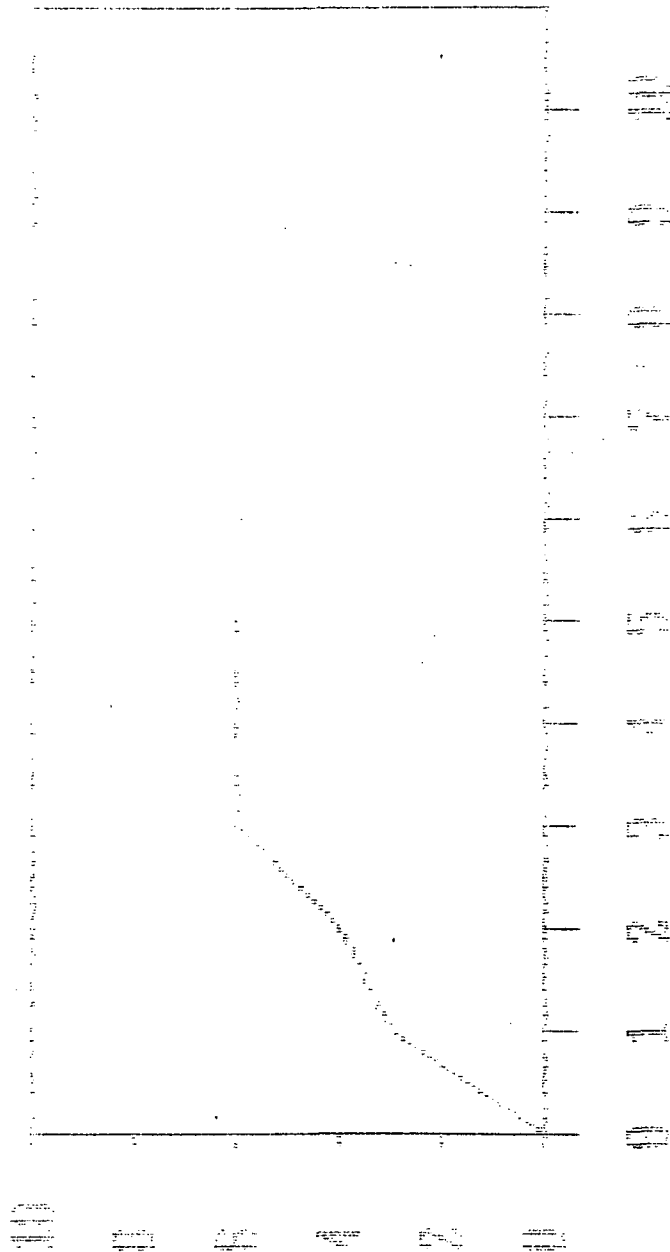
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .8268244 .8552632
INVERSE, SIMPSON DOM.: .4942396 6.909091
SHANNON DIVERSITY: .7678949 1.791759
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7034488 1.697008
(MAX. IS IN BASE E)
SHELDON EVENNESS: .6597617
HEIF EVENNESS: .591714
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

4000 GROSS WEIGHT



4000 GROSS WEIGHT

1. The first part of the document is a list of the names of the persons who were present at the meeting. The names are listed in alphabetical order.



The following table shows the results of the experiment. The first column is the time in seconds, and the second column is the distance in feet. The data points are plotted on the graph above.

Time (seconds)	Distance (feet)
0	0
1	2.5
2	4.5
3	5.5
4	6.2
5	6.7
6	7.0
7	7.2
8	7.4
9	7.5
10	7.6

The following table shows the results of the experiment. The first column is the time in seconds, and the second column is the distance in feet. The data points are plotted on the graph above.

Time (seconds)	Distance (feet)
0	0
1	2.5
2	4.5
3	5.5
4	6.2
5	6.7
6	7.0
7	7.2
8	7.4
9	7.5
10	7.6

The following table shows the results of the experiment. The first column is the time in seconds, and the second column is the distance in feet. The data points are plotted on the graph above.



SHIP ISLAND STATION 1

SWASH ZONE

BOX CORER -INFAUNAL

CODE: SI1SE87.SWA SHIP ISLAND STA. 1 SWASH 3 SEPTEMBER 1987

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	1	0	0.00
2	4	4	0.81
3	5	4	0.91
4	2	4	0.84
5	3	4	0.84

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	17
2	Scolecopsis squamata	9
3	Cuna dalli	2
4	Emerita talpoida	1

TOTAL = 29

ENTER TO CONTINUE?

ESTIMATES

H'	=	.9508753
var (H')	=	.018845
J'	=	.6137768
var (J')	=	9.805851E-03
N	=	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
 NO. OF INDIVIDUALS = 29
 MARGALEF DIVERSITY: 2.051425
 MENHINICK DIVERSITY: .7427813
 SIMPSON DOMINANCE: .4261084
 SIMPSON DIVERSITY: .5738916
 INVERSE, SIMPSON DIV.: 2.346821
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .4458977
 SIMPSON DIV.: .5541023
 INVERSE OF DOMINANCE: 2.242667
 SHANNON DIVERSITY*:
 .4241953 .9767458 1.409146
 BRILLOUIN DIVERSITY*:
 .3632647 .8364479 1.206739
 *BASE 10, BASE E, BASE 2

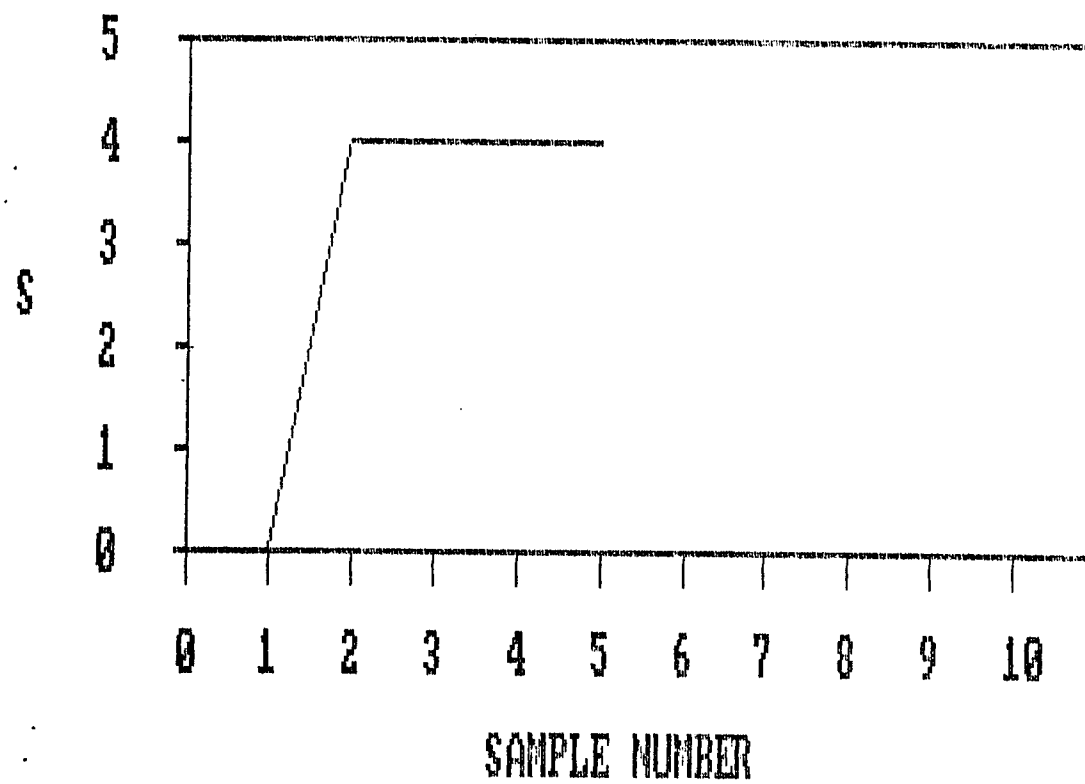
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

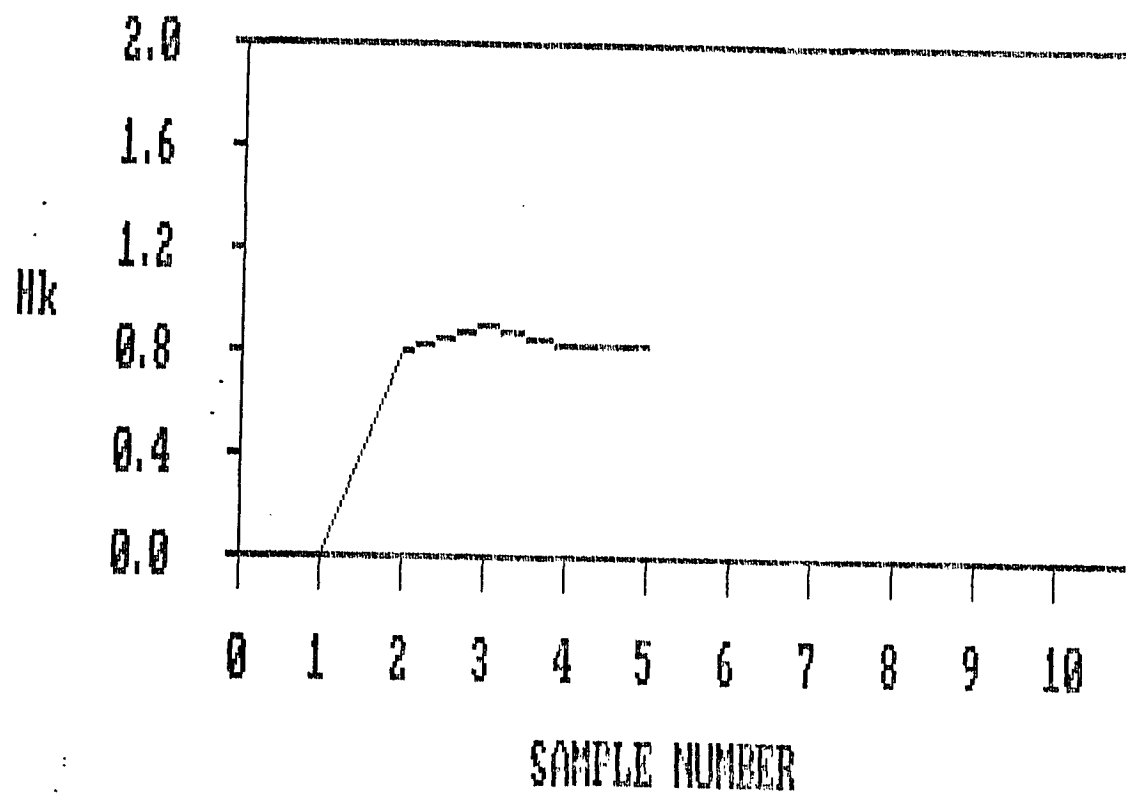
SIMPSON DIVERSITY: .738803 .7767857
 INVERSE, SIMPSON DOM.: .5238439 4.48
 SHANNON DIVERSITY: .7045732 1.386294
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .6620985 1.263329
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .6639499
 HEIP EVENNESS: .5519332
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SIINO87.SWA SHIP ISLAND STA. 1 SWASH 20 NOVEMBER 1987

NUM	SAMP	CUM S	CUM Hk
---	---	---	---
1	3	5	0.94
2	2	5	0.91
3	1	5	0.87
4	5	5	0.84
5	4	5	0.88

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	63
2	Scolecopsis squamata	60
3	Donax variabilis	6
4	Paraonis fulgens	1
5	Emerita talpoida	1

TOTAL = 131

ENTER TO CONTINUE?

ESTIMATES

H'	=	.8461272
var (H')	=	3.262341E-03
J'	=	.5257283
var (J')	=	1.25945E-03
N	=	4

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 131
MARGALEF DIVERSITY: 1.889224
MENHINICK DIVERSITY: .436852
SIMPSON DOMINANCE: .43899
SIMPSON DIVERSITY: .56101
INVERSE, SIMPSON DIV.: 2.277956
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4432725
SIMPSON DIV.: .5567275
INVERSE OF DOMINANCE: 2.255949
SHANNON DIVERSITY*:
.4018788 .9253601 1.335012
BRILLOUIN DIVERSITY*:
.3805587 .8762689 1.264189
*BASE 10, BASE E, BASE 2

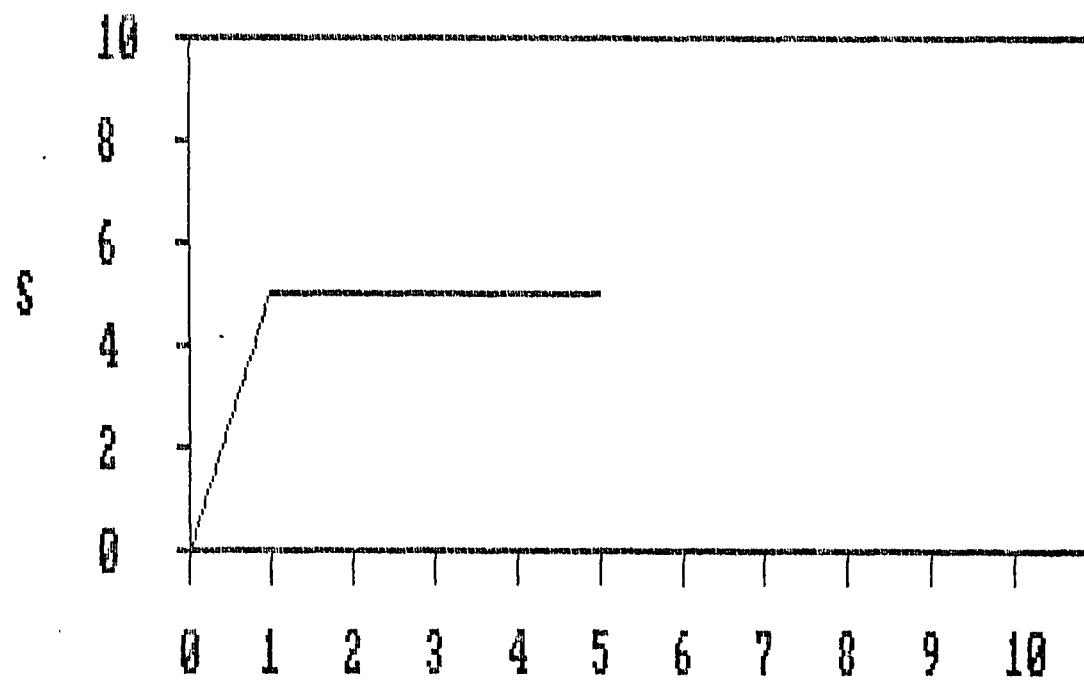
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .6959094 .8061538
INVERSE, SIMPSON DOM.: .441573 5.15873
SHANNON DIVERSITY: .5749586 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .562591 1.557559
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5045553
HEIP EVENNESS: .3806942
(ABOVE TWO USE BASE E)

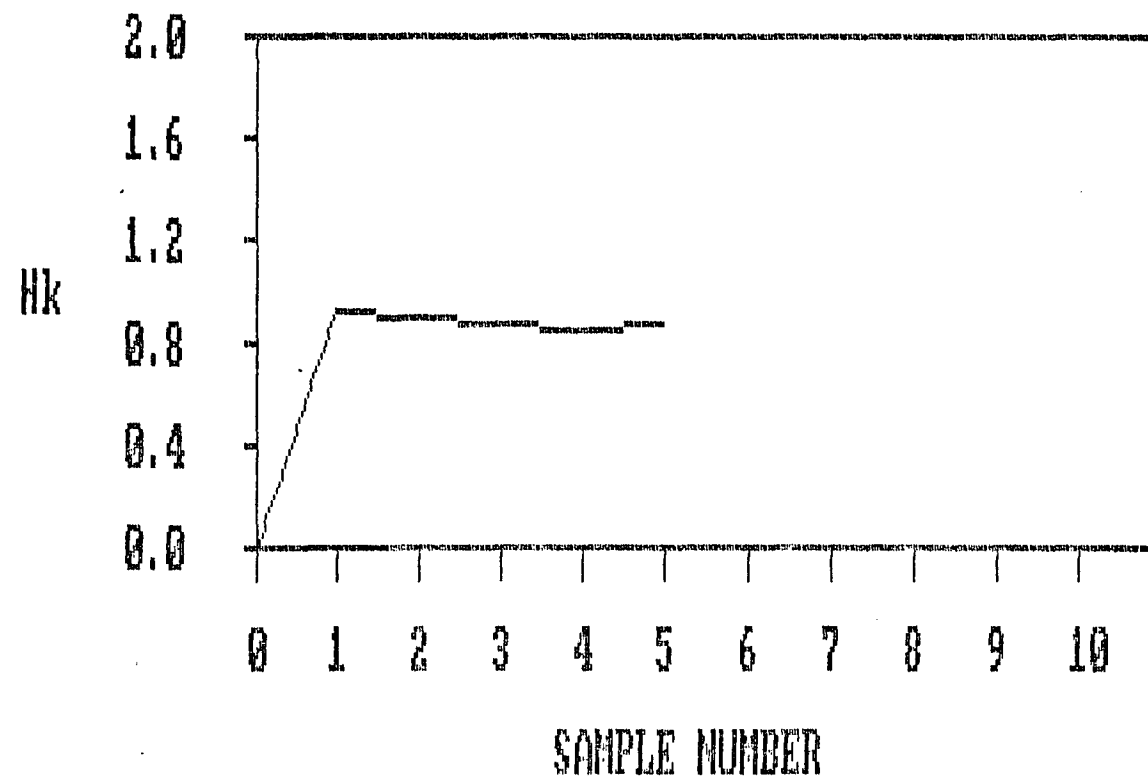
ENTER TO CONTINUE?

SPECIES-AREA CURVE



SAMPLE NUMBER

CUMULATIVE DIVERSITY CURVE



CODE: SI1JA88.SWA SHIP ISLAND STA. 1 SWASH 15 JANUARY 1988

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	3	2	0.45
2	5	5	1.07
3	1	6	1.20
4	2	6	1.16
5	4	6	1.14

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	23
2	Scolecopsis squamata	17
3	Donax variabilis	5
4	Paraonis fulgens	2
5	Exosphaeroma diminutum	2
6	Metamysidopsis swifti	1

	TOTAL =	50

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.00397
var (H')	=	1.411557E-03
J'	=	.5603262
var (J')	=	4.396824E-04
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
NO. OF INDIVIDUALS = 50
MARGALEF DIVERSITY: 2.94296
MENHINICK DIVERSITY: .8485282
SIMPSON DOMINANCE: .327347
SIMPSON DIVERSITY: .6726531
INVERSE, SIMPSON DIV.: 3.054863
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3408
SIMPSON DIV.: .6592
INVERSE OF DOMINANCE: 2.934273
SHANNON DIVERSITY*:
.5602431 1.290008 1.861088
BRILLOUIN DIVERSITY*:
.4967653 1.143844 1.650219
*BASE 10, BASE E, BASE 2

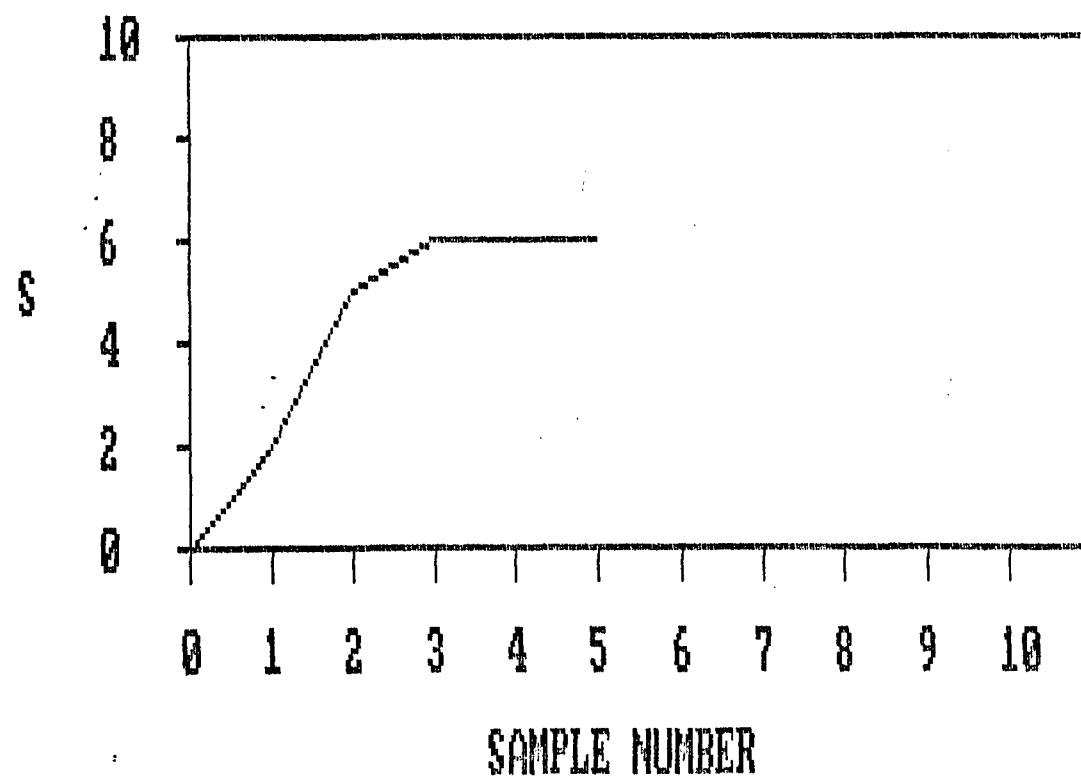
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

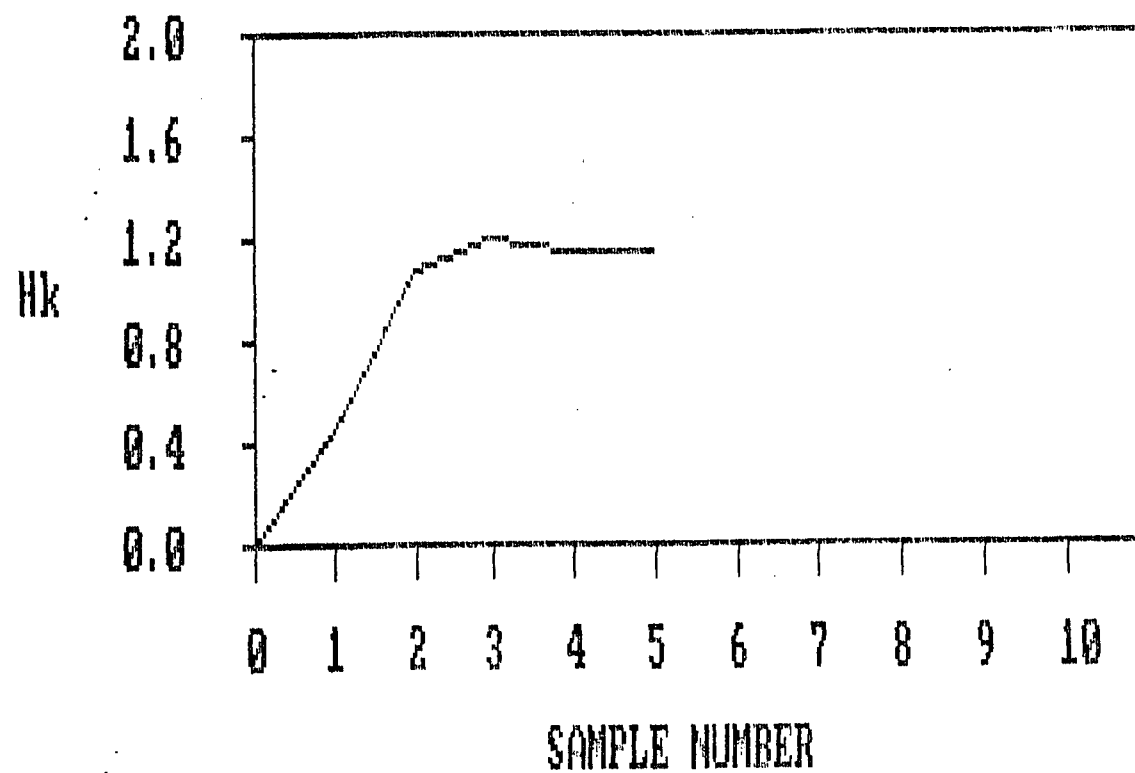
SIMPSON DIVERSITY: .7910399 .8503402
INVERSE, SIMPSON DOM.: .4571904 6.681818
SHANNON DIVERSITY: .719967 1.791759
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .679907 1.682354
(MAX. IS IN BASE E)
SHELDON EVENNESS: .6054691
HEIP EVENNESS: .5265628
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: S11MR88.SWA SHIP ISLAND STA. 1 SWASH 23 MARCH 1988

NUM	SAMP	CUM S	CUM Hk
1	3	3	0.61
2	5	3	0.67
3	2	4	0.79
4	4	4	0.82
5	1	5	1.01

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scyphacella arenicola	10
2	Haustorius sp A	3
3	Streptosyllis pettiboneae	2
4	Lepidactylus sp A	2
5	Cuna delli	1
TOTAL =		18

ENTER TO CONTINUE?

ESTIMATES

H' =	1.77747
var (H') =	.5442746
J' =	1.104404
var (J') =	.2101211
N =	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
 NO. OF INDIVIDUALS = 18
 MARGALEF DIVERSITY: 3.186559
 MENHINICK DIVERSITY: 1.178511
 SIMPSON DOMINANCE: .3267974
 SIMPSON DIVERSITY: .6732026
 INVERSE, SIMPSON DIV.: 3.06
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .3641975
 SIMPSON DIV.: .6358025
 INVERSE OF DOMINANCE: 2.745763
 SHANNON DIVERSITY*:
 .553301 1.274023 1.838026
 BRILLOUIN DIVERSITY*:
 .4370204 1.006277 1.45175
 *BASE 10, BASE E, BASE 2

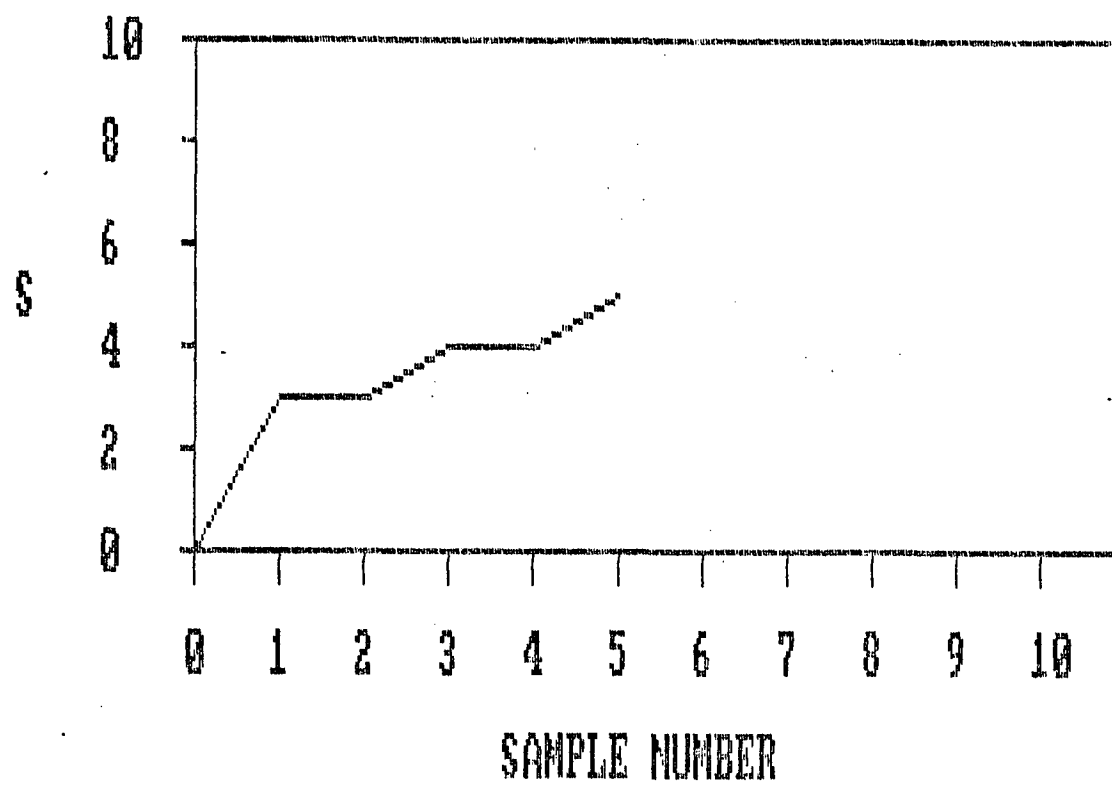
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

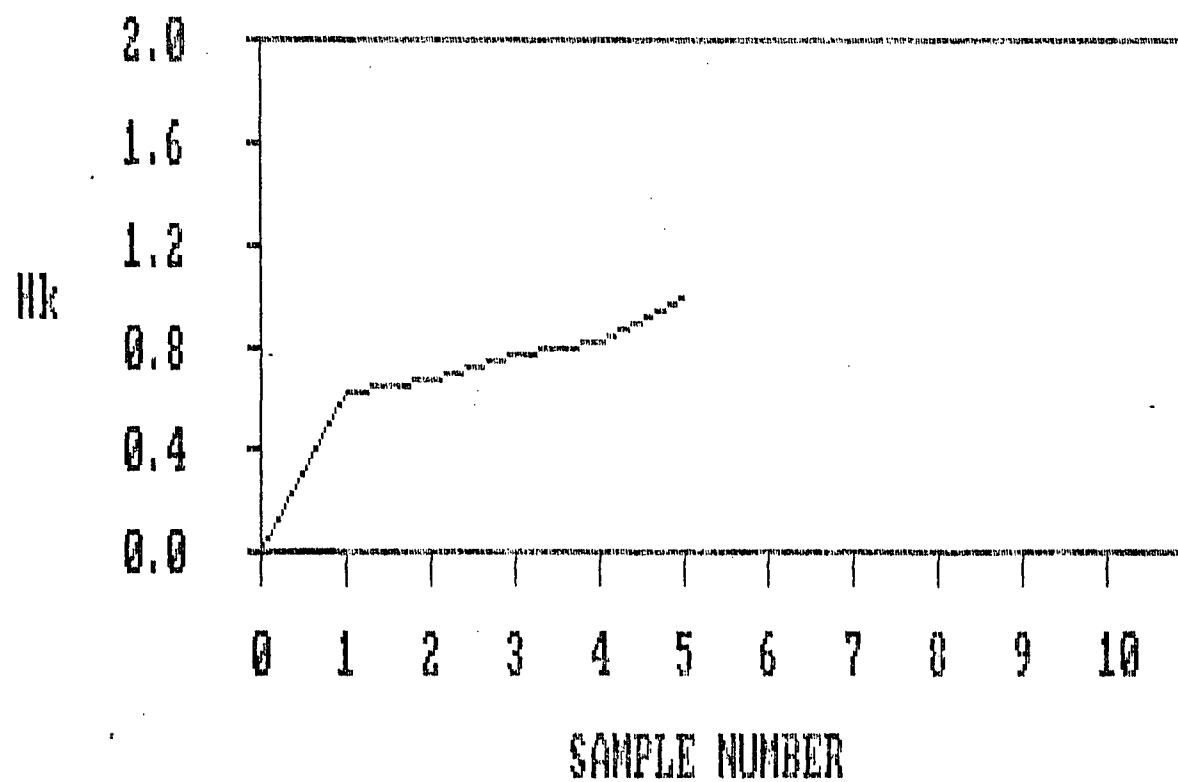
SIMPSON DIVERSITY: .7947531 .8470588
 INVERSE, SIMPSON DOM.: .468 6.538462
 SHANNON DIVERSITY: .7915949 1.609438
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .6808143 1.478049
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .7150413
 HEIP EVENNESS: .6438016
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
----	-----	-----	-----
1	4	2	0.42
2	3	4	0.55
3	5	4	0.13
4	1	4	0.11
5	2	4	0.11

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Hauastorius sp A	189
2	Scyphacella arenicola	2
3	Cuna dalli	1
4	Emerita talpoida	1

TOTAL = 193

ENTER TO CONTINUE?

ESTIMATES

$H^* = 3.693653E-02$
 $var (H^*) = 1.597089E-04$
 $J^* = 2.664407E-02$
 $var (J^*) = 9.871357E-05$
 $N = 3$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 193
MARGALEF DIVERSITY: 1.31259
MENHINICK DIVERSITY: .2879263
SIMPSON DOMINANCE: .958927
SIMPSON DIVERSITY: 4.107297E-02
INVERSE, SIMPSON DIV.: 1.042832
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .9591398
SIMPSON DIV.: 4.086018E-02
INVERSE OF DOMINANCE: 1.042601
SHANNON DIVERSITY*:
5.315647E-02 .1223973 .176582
BRILLOUIN DIVERSITY*:
4.573884E-02 .1053176 .1519412
*BASE 10, BASE E, BASE 2

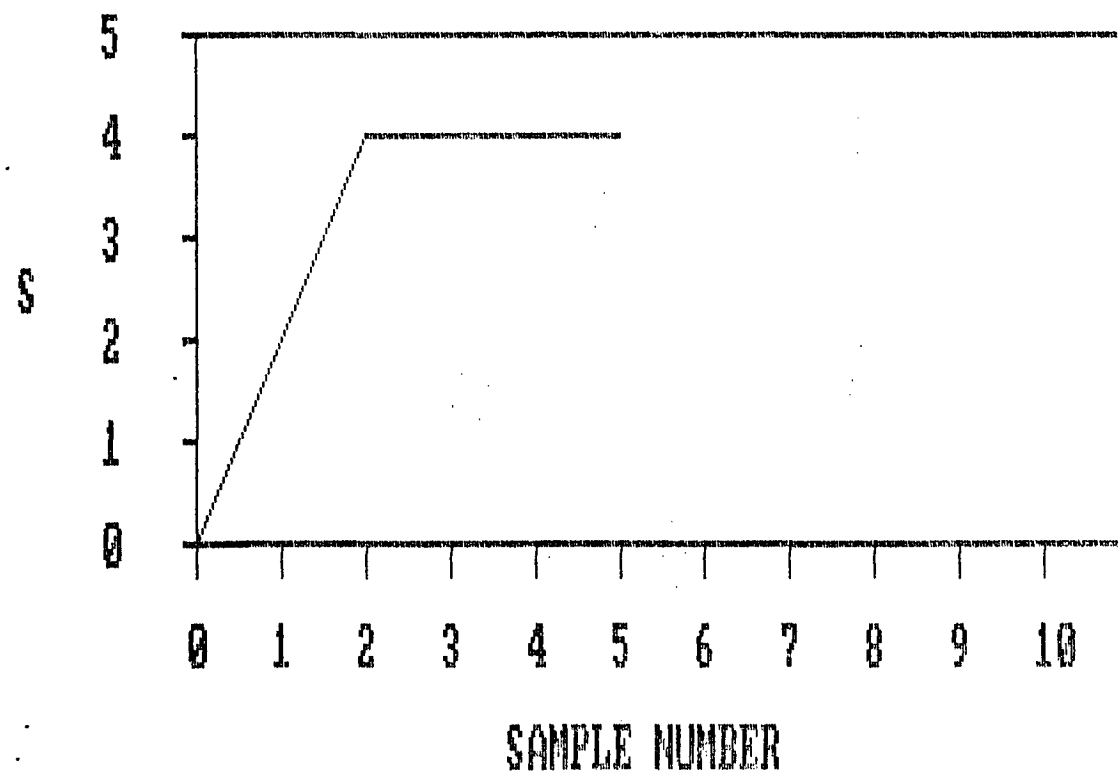
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

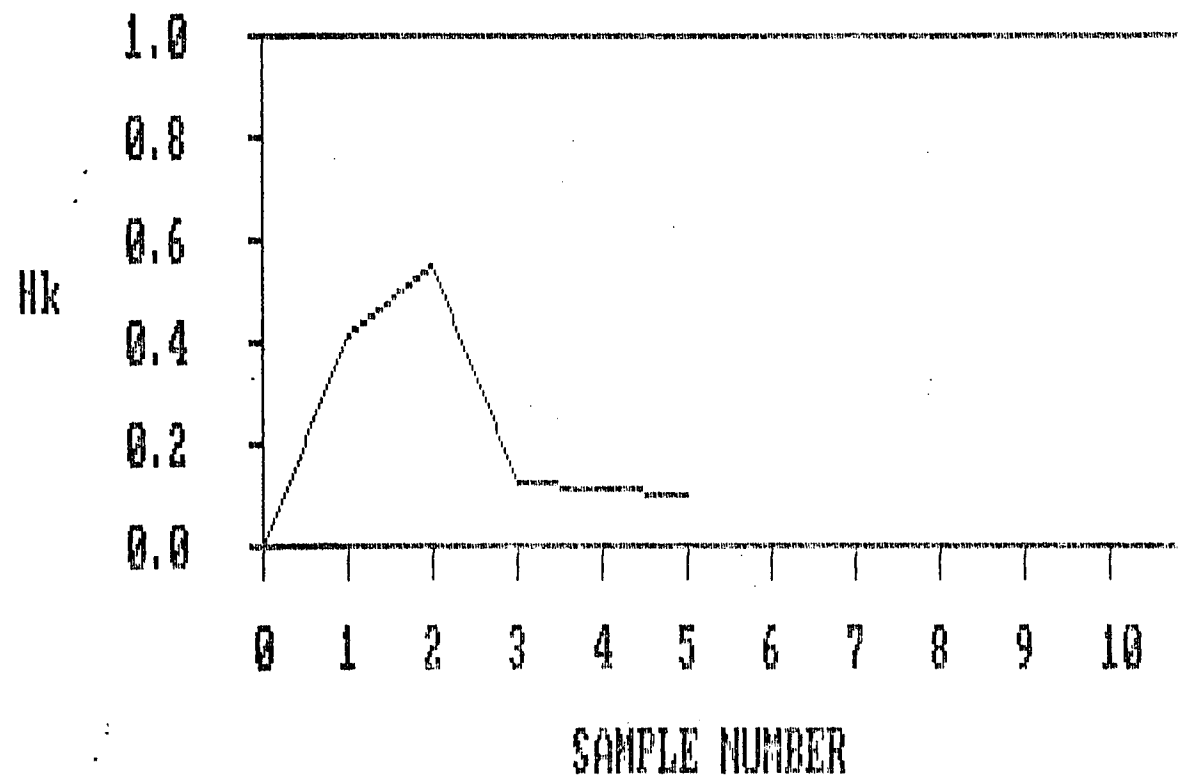
SIMPSON DIVERSITY: .0544802 .7539063
INVERSE, SIMPSON DOM.: .2566845 4.063492
SHANNON DIVERSITY: .088291 1.286294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: 7.740962E-02 1.360523
(MAX. IS IN BASE E)
SHELDON EVENNESS: .2825508
HEIP EVENNESS: .043401
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SIIJL88.SWA

SHIP ISLAND

STA. 1

SWASH

12JULY 1988

NUM	SAMP	CUM S	CUM HK
1	3	1	0.00
2	4	3	0.31
3	1	3	0.28
4	2	3	0.24
5	5	3	0.20

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	33
2	Emerita talpoida	1
3	Donax variabilis	1

TOTAL = 35

ENTER TO CONTINUE?

ESTIMATES

H' =	.2238631
var (H') =	2.006982E-02
J' =	.2037689
var (J') =	1.662856E-02
N =	4

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 35
MARGALEF DIVERSITY: 1.29528
MENHINICK DIVERSITY: .5070925
SIMPSON DOMINANCE: .887395
SIMPSON DIVERSITY: .112605
INVERSE, SIMPSON DIV.: 1.126894
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6906122
SIMPSON DIV.: .1093878
INVERSE OF DOMINANCE: 1.122823
SHANNON DIVERSITY*:
.1123264 .2586411 .3731402
BRILLOUIN DIVERSITY*:
.0878728 .2023345 .2919071
*BASE 10, BASE E, BASE 2

ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .1640816 .6862745
INVERSE, SIMPSON DOM.: .3535353 3.1875
SHANNON DIVERSITY: .2354252 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1864951 1.084933
(MAX. IS IN BASE E)
SHELDON EVENNESS: .431723
HEIP EVENNESS: .1475844
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

1155 EAST 58TH STREET

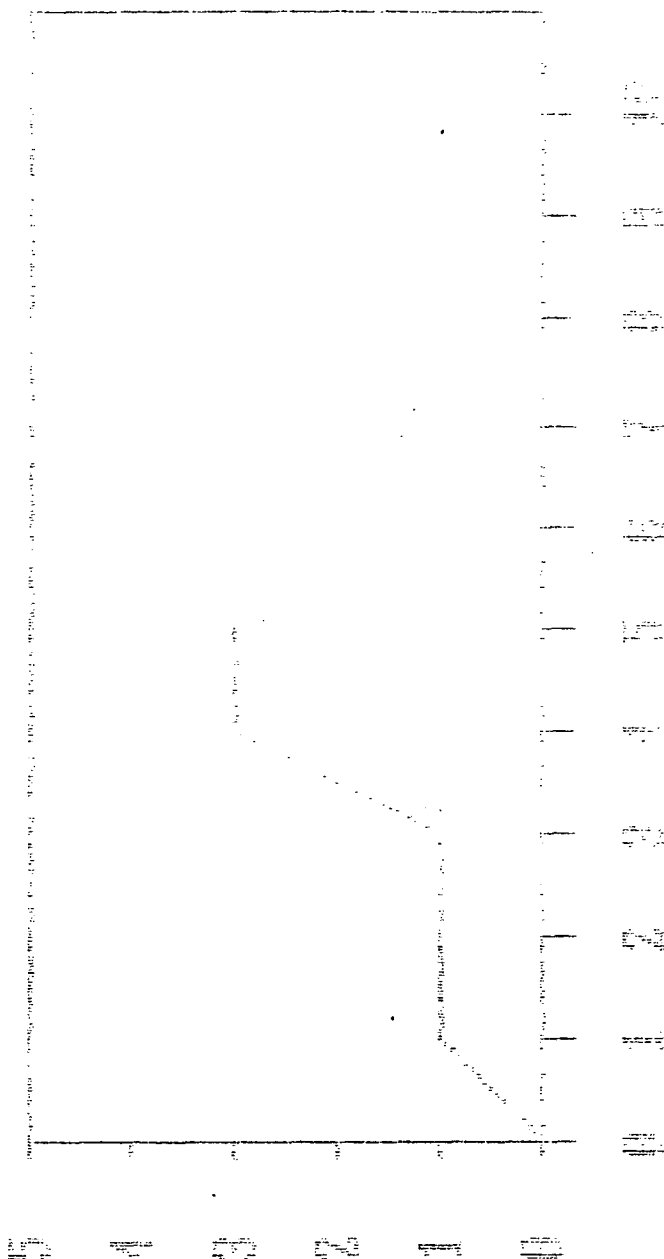
CHICAGO, ILL. 60637

1964

1155 EAST 58TH STREET

THE UNIVERSITY OF CHICAGO

THEORY OF THE



THEORY OF THE

SHIP ISLAND STATION 1

15 M FROM SHORE

BOX CORER - INFAUNAL

NUM	SAMP	CUM'S	CUM HK
----	----	-----	-----
1	2	5	0.92
2	4	11	0.88
3	3	13	0.94
4	5	14	0.91
5	1	14	0.91

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Paraonis fulgens	1928
2	Lepidactylus sp A	755
3	Scolecopsis squamata	76
4	Exosphaeroma diminutum	68
5	Streptosyllis pettiboneae	14
6	Kalliapseudes sp A	9
7	Leitoscoloplos fragilis	7
8	Branchiostoma sp	6
9	Oxyurostylis smithi	4
10	unid nemertean	4
11	Spiophanes bombyx	3
12	Spilocuma watlingi	2
13	Dispio uncinata	2
14	Donax variabilis	2

TOTAL =		2880

ENTER TO CONTINUE?

ESTIMATES

$H' = .8572824$
 $\text{var } (H') = 2.464322E-04$
 $J' = .3248442$
 $\text{var } (J') = 3.567058E-05$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 14
NO. OF INDIVIDUALS = 2980
MARGALEF DIVERSITY: 3.757886
MENHINICK DIVERSITY: .2608746
SIMPSON DOMINANCE: .5180165
SIMPSON DIVERSITY: .4819835
INVERSE, SIMPSON DIV.: 1.930441
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5181838
SIMPSON DIV.: .4818162
INVERSE OF DOMINANCE: 1.929817
SHANNON DIVERSITY*:
.3978087 .9159885 1.321492
BRILLOUIN DIVERSITY*:
.3937623 .9066712 1.30805
*BASE 10, BASE E, BASE 2

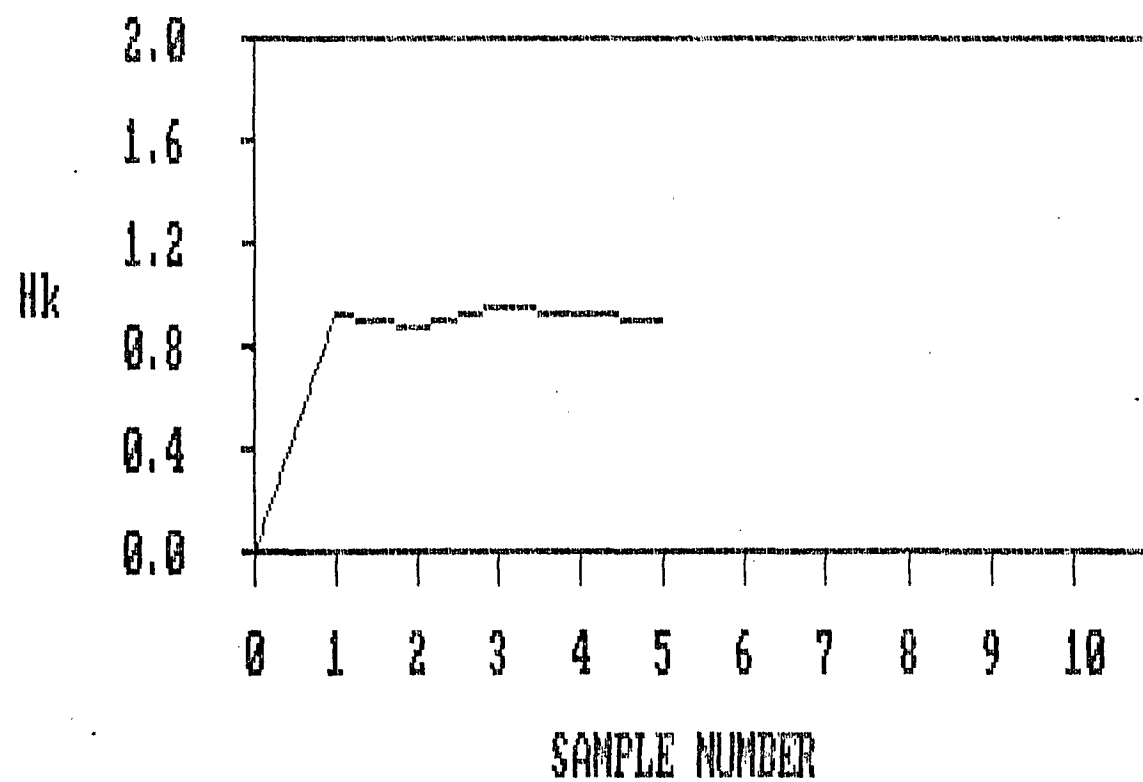
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

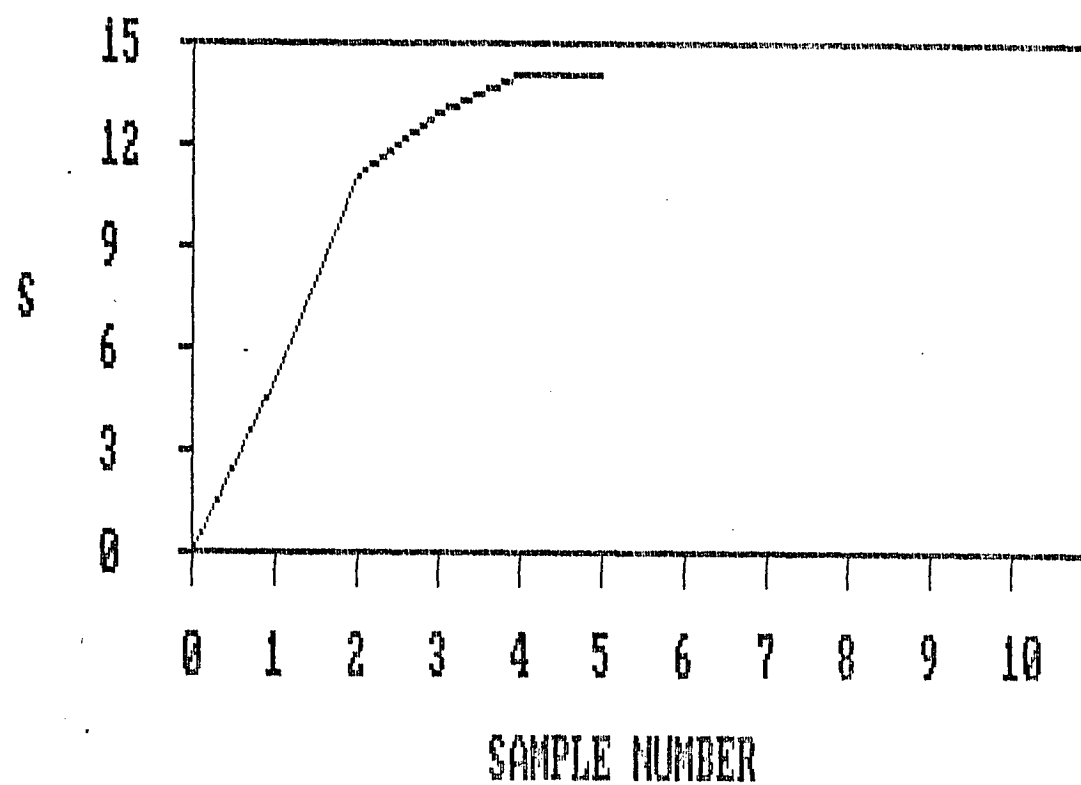
SIMPSON DIVERSITY: .5188789 .928894
INVERSE, SIMPSON DOM.: .137266 14.0635
SHANNON DIVERSITY: .3470893 2.639057
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .3433683 2.640521
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1785175
HEIP EVENNESS: .1153265
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



NUM	SAMP	CUM S	CUM Hk
1	3	6	0.67
2	6	10	0.73
3	2	11	0.80
4	8	13	0.81
5	7	16	0.78
6	5	16	0.73
7	9	16	0.67
8	1	16	0.67
9	4	16	0.68
10	10	17	0.68

ENTER TO CONTINUE?

1	Lepidactylus sp A	5706
2	Paraonis fulgens	837
3	Exosphaeroma diminutum	359
4	Scoelelepis squamata	32
5	Streptosyllis pettiboneae	19
6	Leitoscoloplos fragilis	18
7	Spilocuma watlingi	18
8	unid nemertean	16
9	Dispio uncinata	10
10	Pinnixa behreae	4
11	Kalliapseudes sp A	4
12	Donax texasianus	2
13	Nephtys buccera	2
14	Branchiostoma sp	1
15	Corophium acherusicum	1
16	Oxyurostylis smithi	1
17	Callichirus islagrande	1

TOTAL = 7031

ENTER TO CONTINUE?

ESTIMATES

$H' = .6054877$
 $\text{var } (H') = 4.288167E-03$
 $J' = .2137106$
 $\text{var } (J') = 5.342113E-04$
 $N = 5$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 17
NO. OF INDIVIDUALS = 7031
MARGALEF DIVERSITY: 4.159067
MENHINICK DIVERSITY: .2027404
SIMPSON DOMINANCE: .6753932
SIMPSON DIVERSITY: .3246068
INVERSE, SIMPSON DIV.: 1.480619
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6754392
SIMPSON DIV.: .3245608
INVERSE OF DOMINANCE: 1.480518
SHANNON DIVERSITY*:
.2984223 .6871428 .9913375
BRILLOUIN DIVERSITY*:
.2964469 .6825943 .9847754
*BASE 10, BASE E, BASE 2

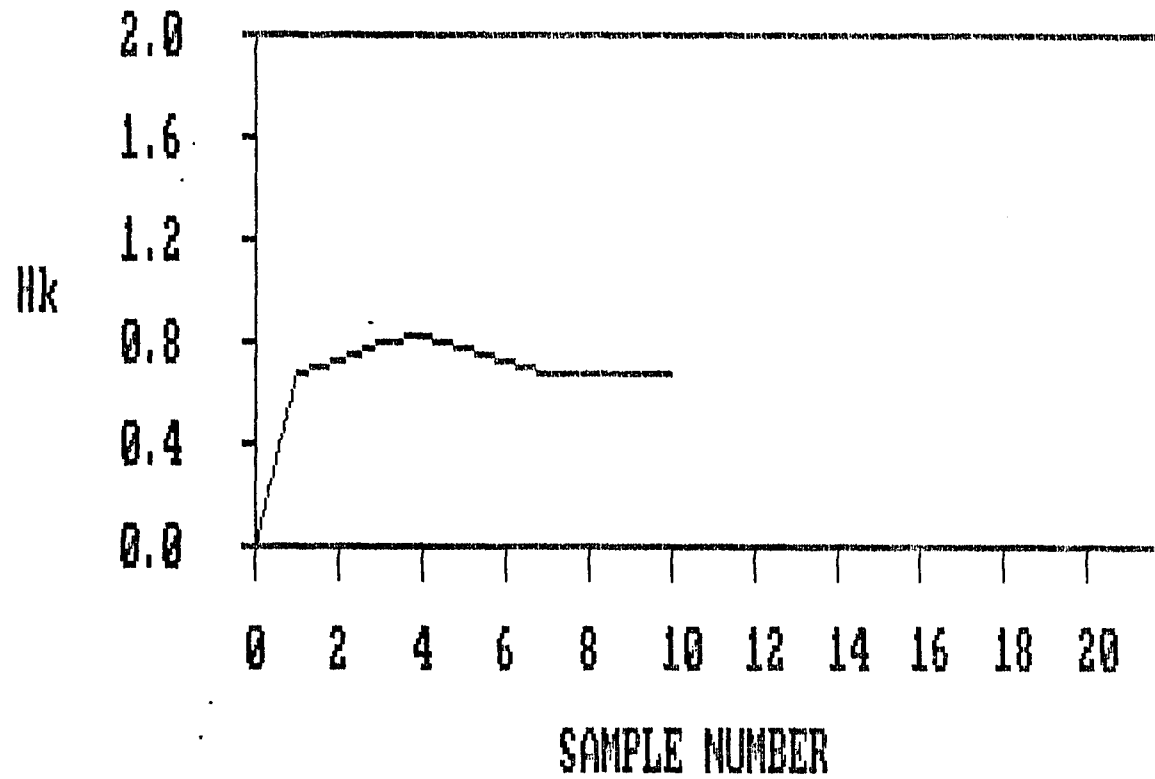
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

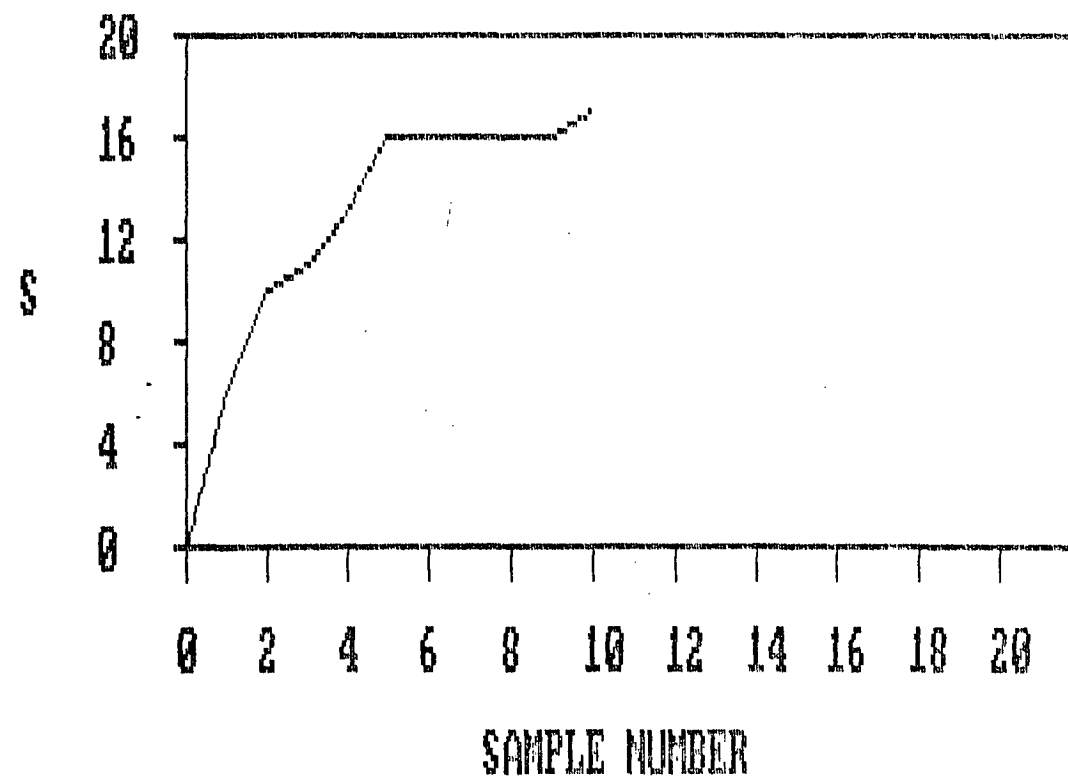
SIMPSON DIVERSITY: .3448457 .9413104
INVERSE, SIMPSON DOM.: .086897 17.03878
SHANNON DIVERSITY: .2425313 2.833213
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2409834 2.832537
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1169428
HEIP EVENNESS: 6.175169E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



NUM	SAMP	CUM S	CUM HK
---	---	---	---
1	3	10	1.00
2	5	11	1.12
3	1	12	1.12
4	6	14	1.12
5	10	15	1.18
6	7	16	1.13
7	9	16	1.15
8	2	17	1.14
9	8	17	1.15
10	4	18	1.16

ENTER TO CONTINUE?

1	Paraonis fulgens	2390
2	Lepidactylus sp A	1221
3	Exosphaeroma diminutum	415
4	Streptosyllis pettiboneae	90
5	Scolecopsis squamata	37
6	Dispio uncinata	34
7	unid nemertean	25
8	Leitoscoloplos fragilis	18
9	Branchiostoma sp	5
10	Pinnixa behreae	5
11	Kalliapseudes sp A	4
12	Donax texasianus	4
13	Spilocuma watlingi	4
14	Leptosynapta crassipatina	1
15	Pinnixa sp	1
16	Epitonium cf angulatum	1
17	Spiophanes bombyx	1
18	Nephtys bucera	1

TOTAL = 4257

ENTER TO CONTINUE?

ESTIMATES

$H' = 1.434339$
 $\text{var } (H') = 5.079905E-02$
 $J' = .4962472$
 $\text{var } (J') = 6.080625E-03$
 $N = 4$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 18
NO. OF INDIVIDUALS = 4257
MARGALEF DIVERSITY: 4.684352
MENHINICK DIVERSITY: .2758803
SIMPSON DOMINANCE: .4074771
SIMPSON DIVERSITY: .5925229
INVERSE, SIMPSON DIV.: 2.454125
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4076164
SIMPSON DIV.: .5923836
INVERSE OF DOMINANCE: 2.453287
SHANNON DIVERSITY*:
.5077802 1.169207 1.686809
BRILLOUIN DIVERSITY*:
.5042133 1.160994 1.67496
*BASE 10, BASE E, BASE 2

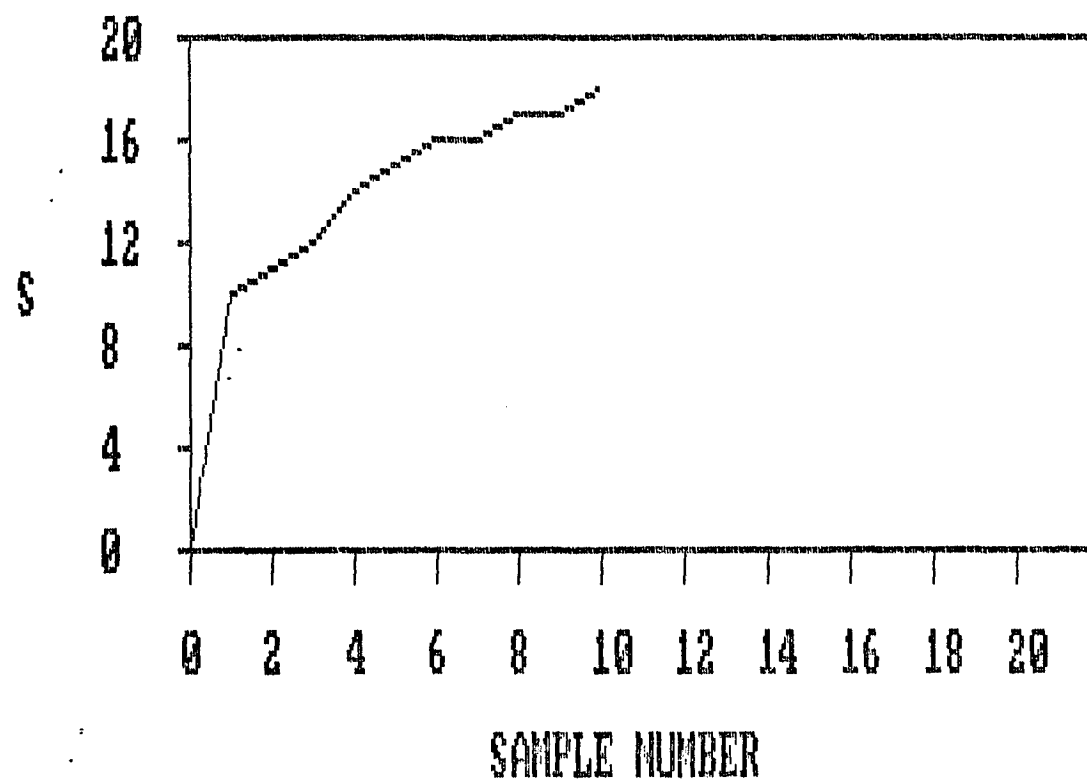
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

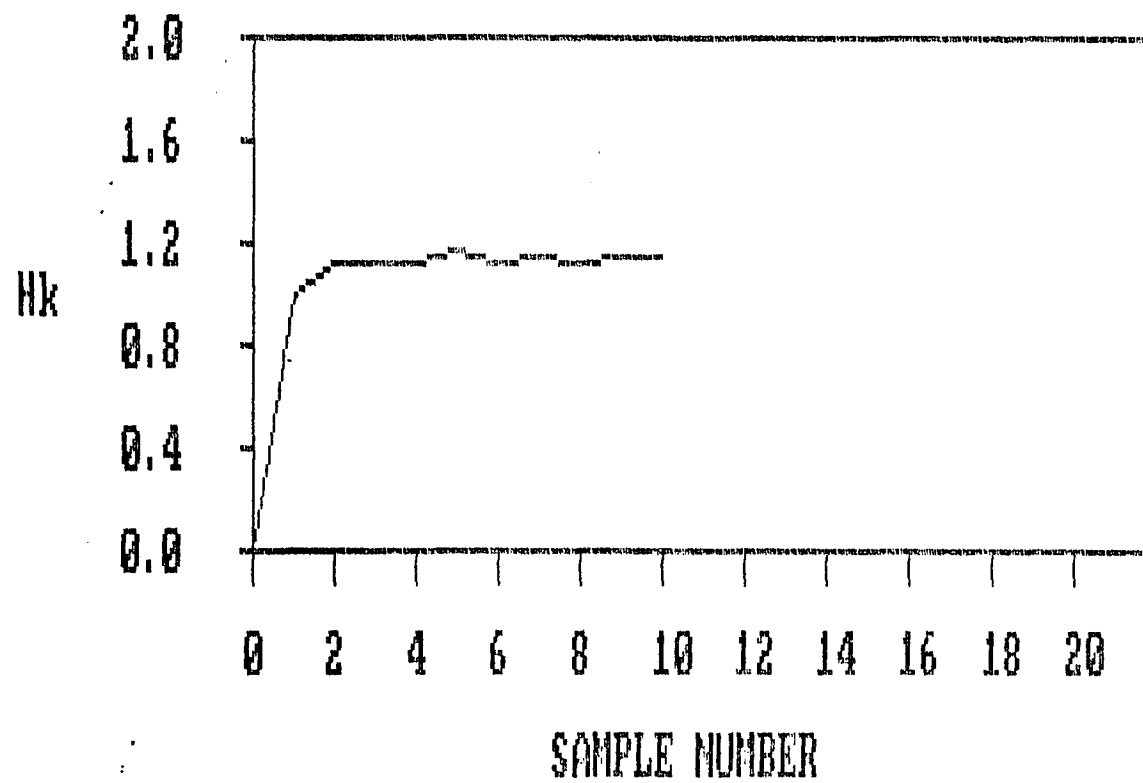
SIMPSON DIVERSITY: .6272298 .9446663
INVERSE, SIMPSON DOM.: .1357957 18.07219
SHANNON DIVERSITY: .4045179 2.890372
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4021392 2.887046
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1788577
HEIP EVENNESS: .1305552
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
1	2	8	0.64
2	7	10	1.01
3	8	13	0.95
4	3	13	0.89
5	6	14	1.06
6	5	15	1.05
7	9	16	1.10
8	10	16	1.08
9	4	17	1.04
10	1	17	1.04

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Lepidactylus sp. A	3434
2	Paraonis fulgens	1965
3	Exosphaeroma diminutum	639
4	Streptosyllis petiboneae	36
5	Dispio uncinata	23
6	unid. nemertean	22
7	Scolecopsis squamata	13
8	Nephtys bucera	11
9	Leitoscoloplos fragilis	6
10	Cuna dalli	3
11	Spirophanes bombyx	3
12	Pinnixa behreae	2
13	Olivella cf dealbata	1
14	Corophium acherusicum	1
15	Donax texasianus	1
16	Spilocuma watlingi	1

TOTAL = 6161

ENTER TO CONTINUE?

ESTIMATES

$H' = .8608241$
 $\text{var } (H') = 9.106636E-03$
 $J' = .3038332$
 $\text{var } (J') = 1.134487E-03$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 16
NO. OF INDIVIDUALS = 6161
MARGALEF DIVERSITY: 3.958148
MENHINICK DIVERSITY: .2038423
SIMPSON DOMINANCE: .4231267
SIMPSON DIVERSITY: .5768733
INVERSE, SIMPSON DIV.: 2.363359
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4232203
SIMPSON DIV.: .5767797
INVERSE OF DOMINANCE: 2.362836
SHANNON DIVERSITY*:
.4530073 1.043088 1.504858
BRILLOUIN DIVERSITY*:
.4508475 1.038115 1.497683
*BASE 10, BASE E, BASE 2

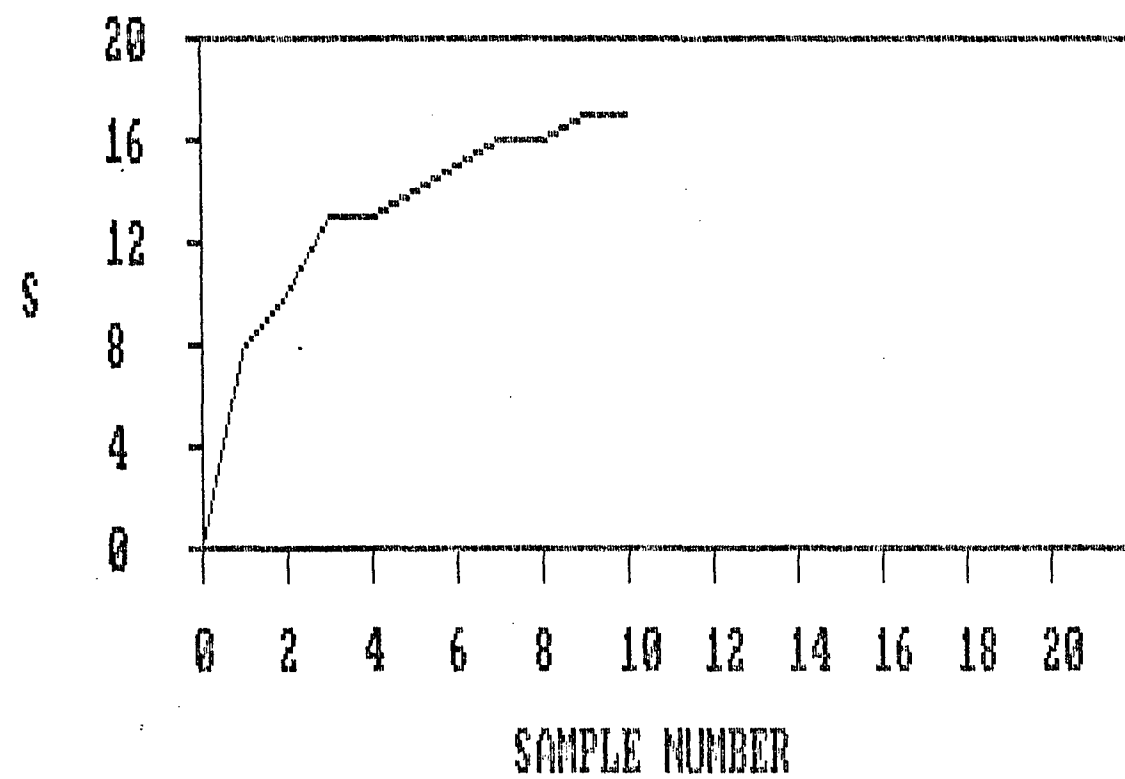
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

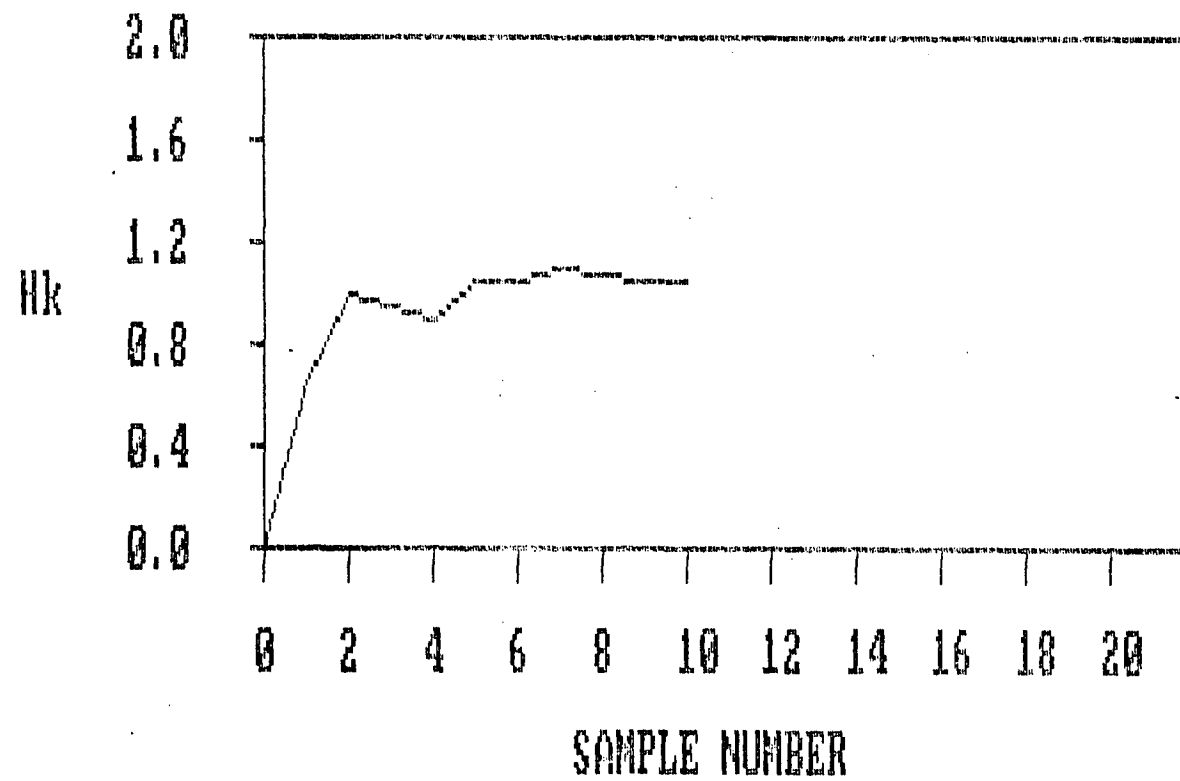
SIMPSON DIVERSITY: .6152316 .9376522
INVERSE, SIMPSON DOM.: .1473502 16.03906
SHANNON DIVERSITY: .3762144 2.772589
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .3755519 2.764238
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1773729
HEIP EVENNESS: .1225311
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM Hk
1	10	8	0.82
2	8	13	1.05
3	5	13	1.12
4	7	14	1.15
5	3	16	1.22
6	2	16	1.11
7	1	16	1.11
8	4	17	1.10
9	6	17	1.08
10	9	19	1.29

ENTER TO CONTINUE?

1	Paraonis fulgens	1017
2	Lepidactylus sp A	.972
3	Lepidactylus sp	193
4	Exosphaeroma diminutum	38
5	Dispio uncinata	32
6	Streptosyllis pettiboneae	27
7	Nephtys buccera	17
8	Spirophanes bombyx	16
9	Leitoscoloplos fragilis	12
10	Spilocuma watlingi	11
11	Magelona sp	10
12	Pinnixa behreae	6
13	unid nemertean	6
14	Kalliaoseudes sp A	4
15	Scolecopsis squamata	1
16	unid spionid	1
17	Haustorius sp A	1
18	Bowmaniella floridana	1
19	Pagurus longicarpus	1

TOTAL = 2366

ENTER TO CONTINUE?

ESTIMATES

H' = 1.700656
var (H') = .5423396
J' = .5775825
var (J') = .0625556
N = 2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 19
NO. OF INDIVIDUALS = 2366
MARGALEF DIVERSITY: 5.334891
MENHINICK DIVERSITY: .3906126
SIMPSON DOMINANCE: .360669
SIMPSON DIVERSITY: .639331
INVERSE, SIMPSON DIV.: 2.772625
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3609392
SIMPSON DIV.: .6390607
INVERSE OF DOMINANCE: 2.77055
SHANNON DIVERSITY*:
.5689647 1.31009 1.89006
BRILLOUIN DIVERSITY*:
.5622141 1.294546 1.867635
*BASE 10, BASE E, BASE 2

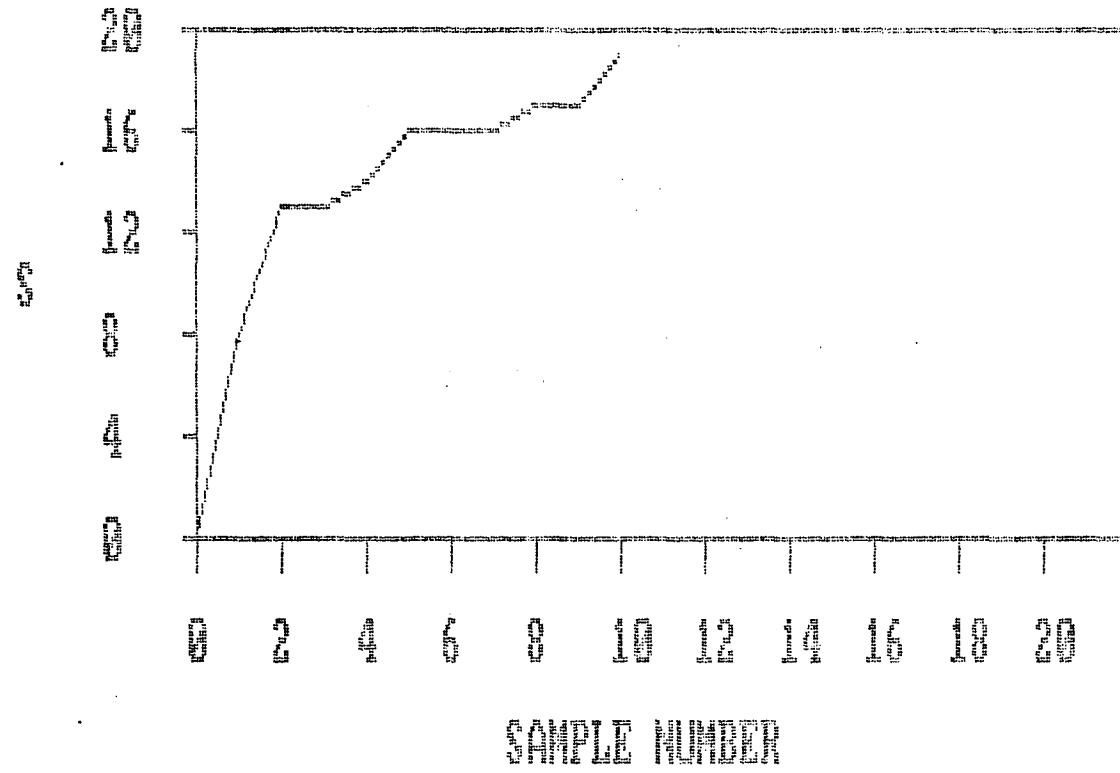
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .6745641 .947769
INVERSE, SIMPSON DOM.: .144817 19.14572
SHANNON DIVERSITY: .4449369 2.944439
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4404655 2.93904
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1950793
HEIP EVENNESS: .1503614
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

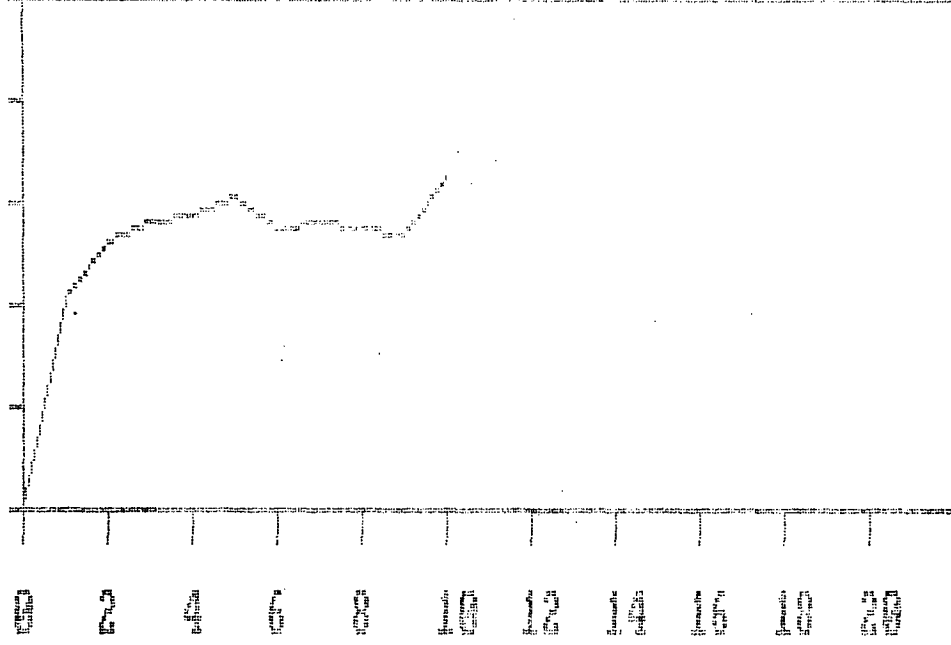
PERCENTS-AREA CURVE



1. The first part of the report is a general description of the project and its objectives. This includes a brief overview of the research area and the specific questions being addressed.

2. The second part of the report is a detailed description of the methodology used in the study. This includes a description of the data sources, the statistical methods used, and the procedures for data collection and analysis.

3. The third part of the report is a discussion of the results of the study. This includes a description of the findings, an interpretation of the results, and a comparison of the findings with previous research.



4. The fourth part of the report is a conclusion and a list of references. The conclusion summarizes the main findings of the study and provides a final interpretation of the results. The references list the sources of information used in the study.

CODE: ST1JL88.15M

SHIP ISLAND

STA. 1 15M

12 JULY 1988

NUM	SAMP	CUM S	CUM HK
1	1	13	0.89
2	2	14	0.95
3	10	14	1.05
4	6	15	1.20
5	7	17	1.24
6	4	17	1.18
7	8	17	1.11
8	3	17	1.10
9	5	17	1.12
10	9	18	1.10

ENTER TO CONTINUE?

1	Paraonis fulgens	2274
2	Streptosyllis pettiboneae	336
3	Leitoscoloplos fragilis	290
4	Lepidactylus sp A	150
5	Dispio uncinata	42
6	Spiophanes bombyx	28
7	Magelona sp A	20
8	Kalliapseudes sp A	19
9	Scoelelepis squamata	14
10	unid nemertean	12
11	Nephtys bucera	11
12	Prionospio pygmaea	7
13	Spilocuma watlingi	6
14	Branchiostoma sp	5
15	Spio pettiboneae	4
16	Leptosynapta crassipatina	1
17	Pinnixa behreae	1
18	Trachypenaeus constrictus	1

TOTAL = 3221

ENTER TO CONTINUE?

ESTIMATES

$H' = 1.189556$
 $\text{var}(H') = 9.12053E-03$
 $J' = .411558$
 $\text{var}(J') = 1.091724E-03$
 $N = 9$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 18
NO. OF INDIVIDUALS = 3221
MARGALEF DIVERSITY: 4.846079
MENHINICK DIVERSITY: .3171591
SIMPSON DOMINANCE: .5198079
SIMPSON DIVERSITY: .4801921
INVERSE, SIMPSON DIV.: 1.923788
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .519957
SIMPSON DIV.: .480043
INVERSE OF DOMINANCE: 1.923236
SHANNON DIVERSITY*:
.4845034 1.11561 1.609486
BRILLOUIN DIVERSITY*:
.479425 1.103917 1.592616
*BASE 10, BASE E, BASE 2

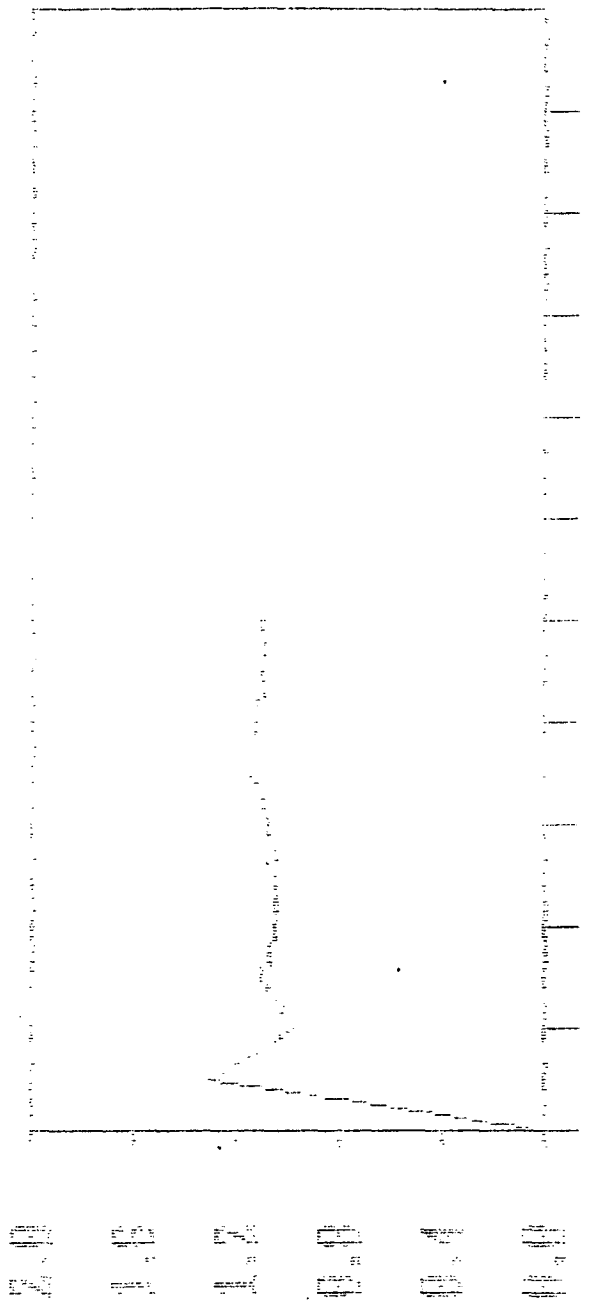
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .5082809 .9447377
INVERSE, SIMPSON DOM.: .1063128 18.09554
SHANNON DIVERSITY: .3859747 2.890372
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .3809055 2.898139
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1695239
HEIP EVENNESS: .1206724
(ABOVE TWO USE BASE E)

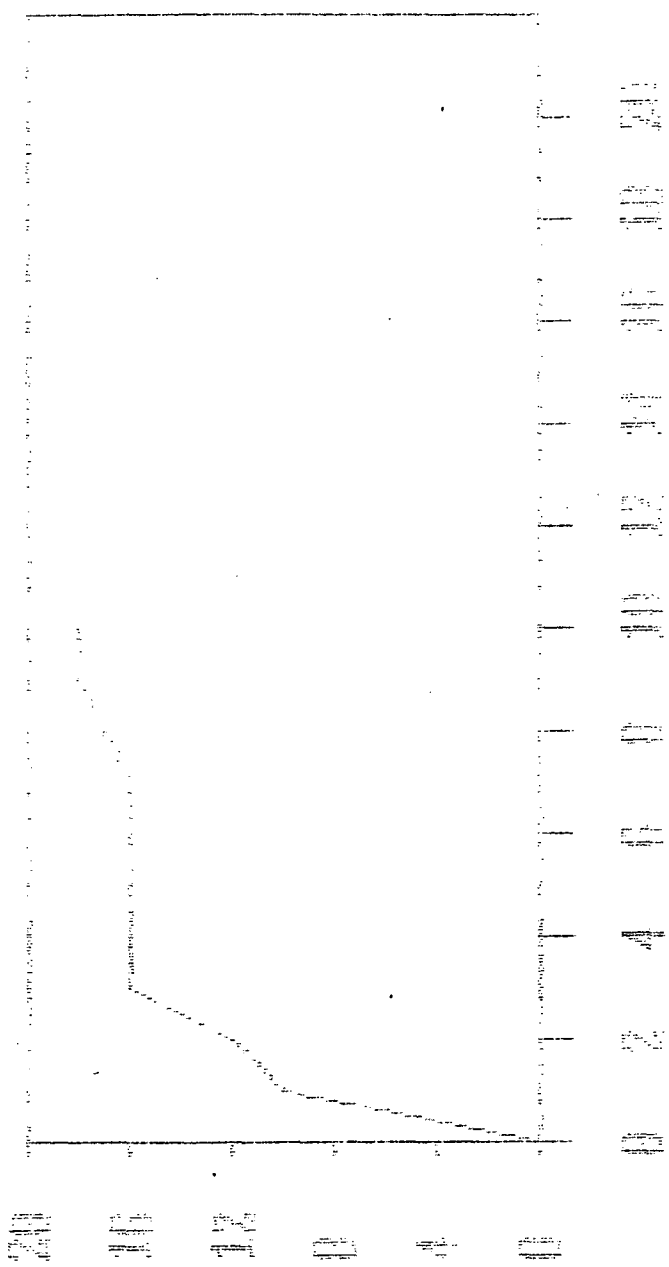
ENTER TO CONTINUE?

CONTINUITY REPORTS 1992



1992

RECEIVED



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SHIP ISLAND STATION 2

SWASH ZONE

BOX CORER - INFAUNAL

CODE: SI2SE87.SWA SHIP ISLAND STA. 2 SWASH 3 SEPTEMBER 1987

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	3	3.	0.68
2	2	4	0.65
3	1	4	0.55
4	5	4	0.48
5	4	5	0.62

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
-----	-----	-----
1	Donax variabilis	28
2	Cuna dalli	3
3	Haustorius sp A	2
4	Emerita benedicti	1
5	Ancinus depressus	1

TOTAL = 35

ENTER TO CONTINUE?

ESTIMATES

H'	=	.4761406
var (H')	=	6.457155E-02
J'	=	.2958428
var (J')	=	2.492831E-02
N	=	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 35
MARGALEF DIVERSITY: 2.59056
MENHINICK DIVERSITY: .8451542
SIMPSON DOMINANCE: .6420168
SIMPSON DIVERSITY: .3579832
INVERSE, SIMPSON DIV.: 1.557592
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6522449
SIMPSON DIV.: .3477551
INVERSE OF DOMINANCE: 1.533166
SHANNON DIVERSITY*:
.3282439 .7558095 1.090403
BRILLOUIN DIVERSITY*:
.2700261 .6217582 .8970074
*BASE 10, BASE E, BASE 2

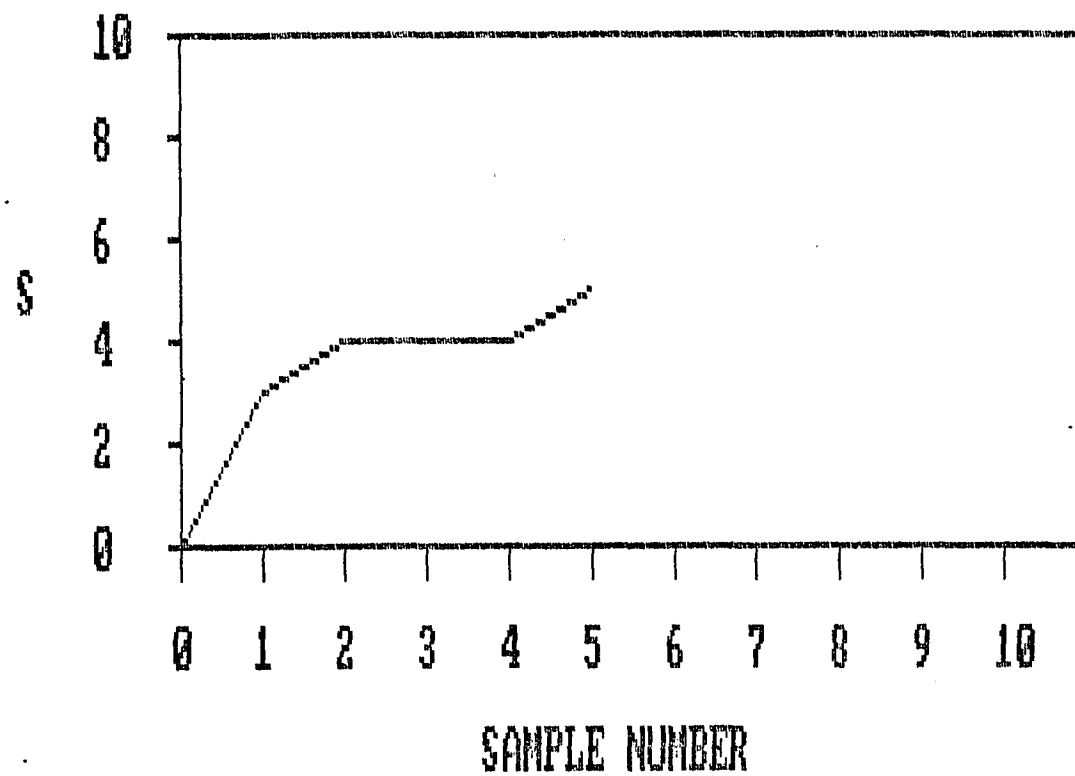
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

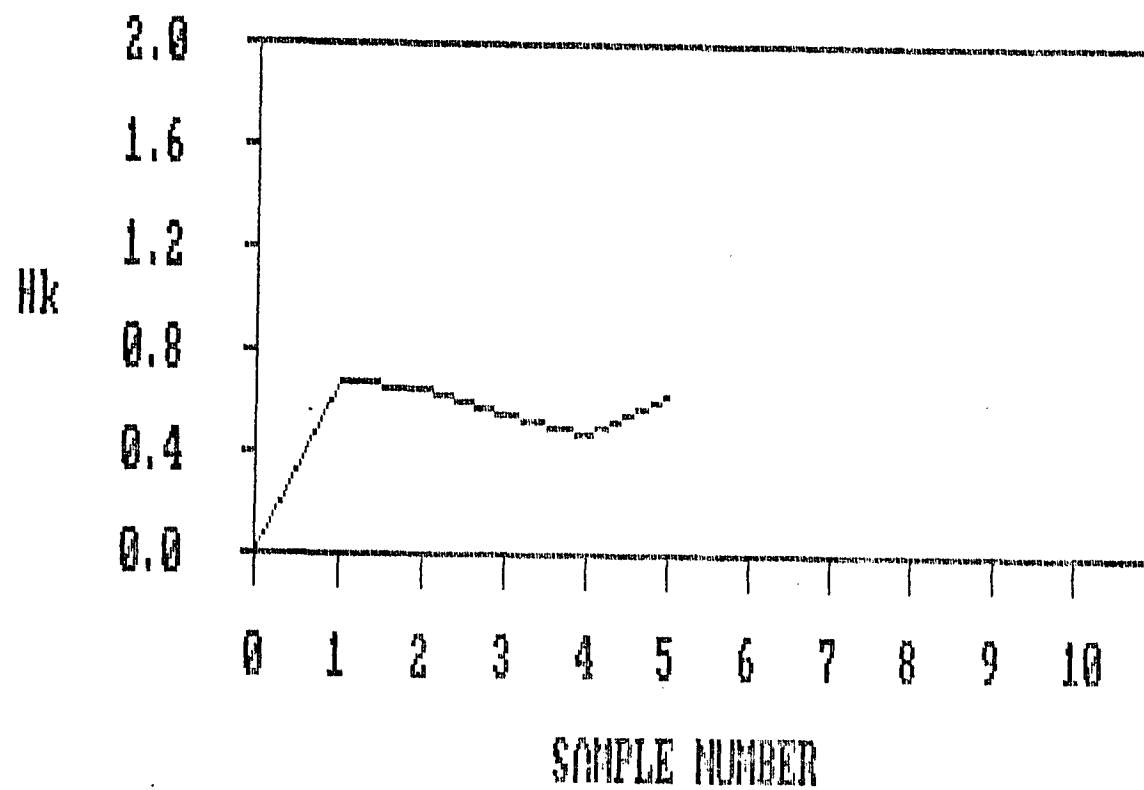
SIMPSON DIVERSITY: .4346938 .8235294
INVERSE, SIMPSON DOM.: .2748691 5.666667
SHANNON DIVERSITY: .4696108 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4395349 1.414582
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4258669
HEIP EVENNESS: .2823336
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	2	5	0.62
2	1	7	0.62
3	4	8	0.58
4	5	8	0.44
5	3	8	0.43

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
-----	-----	-----
1	Cuna dalli	631
2	Donax variabilis	22
3	Haustorius sp A	18
4	Leitoscoloplos fragilis	12
5	Scolecopsis squamata	7
6	Spilocuma salomani	2
7	Emerita talpoida	2
8	Exosphaeroma diminutum	1

TOTAL = 695

ENTER TO CONTINUE?

ESTIMATES

$H' = .3541515$
 $\text{var } (H') = 5.04674E-03$
 $J' = .1703109$
 $\text{var } (J') = 1.167125E-03$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 8
NO. OF INDIVIDUALS = 695
MARGALEF DIVERSITY: 2.463067
MENHINICK DIVERSITY: .3034573
SIMPSON DOMINANCE: .8261481
SIMPSON DIVERSITY: .1738519
INVERSE, SIMPSON DIV.: 1.210437
IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .8263982
 SIMPSON DIV.: .1736018
 INVERSE OF DOMINANCE: 1.21007
SHANNON DIVERSITY*:
 .1959174 .4511164 .6508234
BRILLOUIN DIVERSITY*:
 .1881228 .4331687 .6249303
 *BASE 10, BASE E, BASE 2

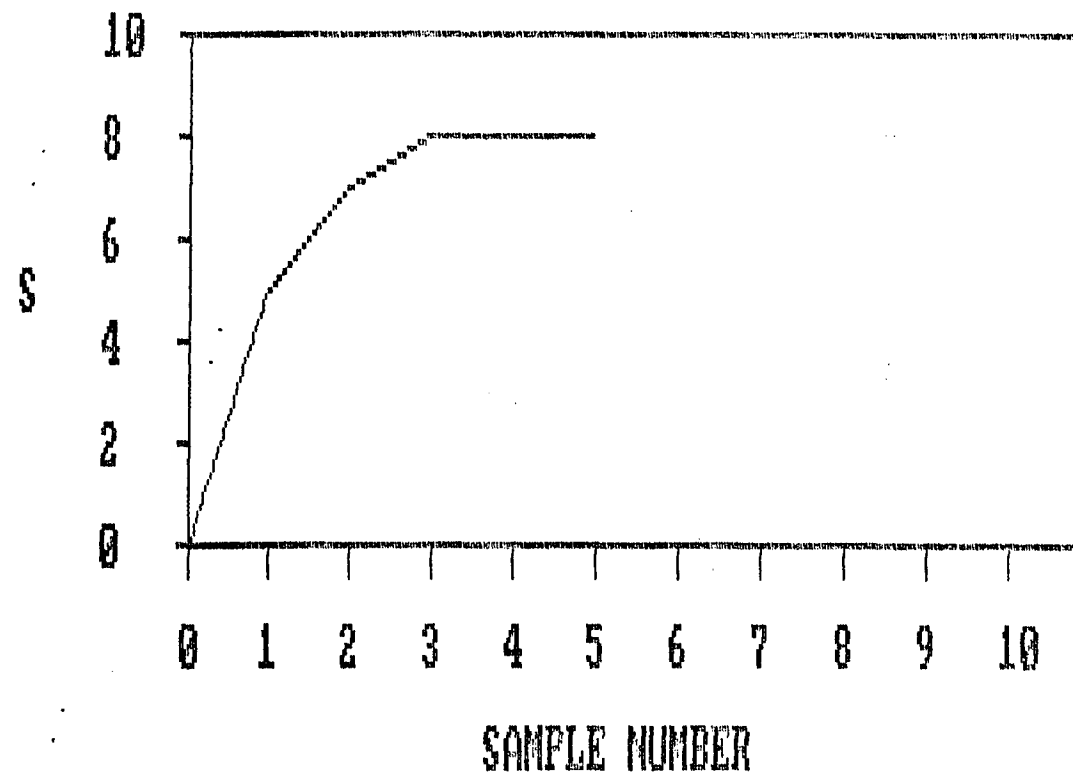
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

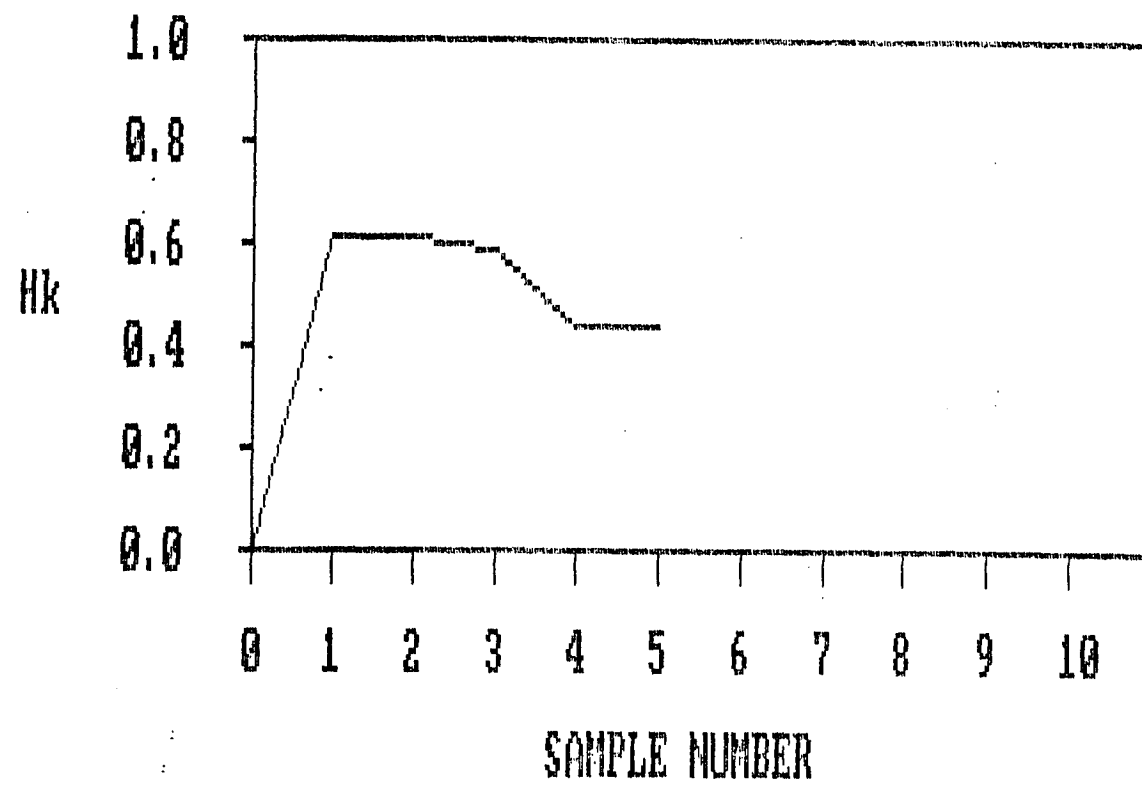
SIMPSON DIVERSITY: .198402 .8762608
INVERSE, SIMPSON DOM.: .1497785 8.081513
SHANNON DIVERSITY: .2169411 2.079442
 (MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2074027 2.088539
 (MAX. IS IN BASE E)
SHELDON EVENNESS: .196258
HEIF EVENNESS: 8.143772E-02
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2JA88.SWA SHIP ISLAND STA. 2 SWASH 15 JANUARY 1988

NUM	SAMP	CUM S	CUM HK
----	-----	-----	-----
1	5	3	0.40
2	4	3	0.40
3	1	6	0.46
4	2	6	0.45
5	3	6	0.38

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Cuna dalli	568
2	Haustorius sp A	50
3	Scoelelepis squamata	9
4	Paraonis fulgens	2
5	Leitoscoloplos fragilis	1
6	Lepidactylus sp A	1

	TOTAL =	631

ENTER TO CONTINUE?

ESTIMATES

H'	=	.2571693
var (H')	=	8.611828E-03
J'	=	.1435289
var (J')	=	2.682477E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
NO. OF INDIVIDUALS = 631
MARGALEF DIVERSITY: 1.785696
MENHINICK DIVERSITY: .2388562
SIMPSON DOMINANCE: .8164918
SIMPSON DIVERSITY: .1835082
INVERSE, SIMPSON DIV.: 1.224752
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .8167827
SIMPSON DIV.: .1832173
INVERSE OF DOMINANCE: 1.224316
SHANNON DIVERSITY*:
.1714898 .3948698 .5696767
BRILLOUIN DIVERSITY*:
.1658754 .3819423 .5510263
*BASE 10, BASE E, BASE 2

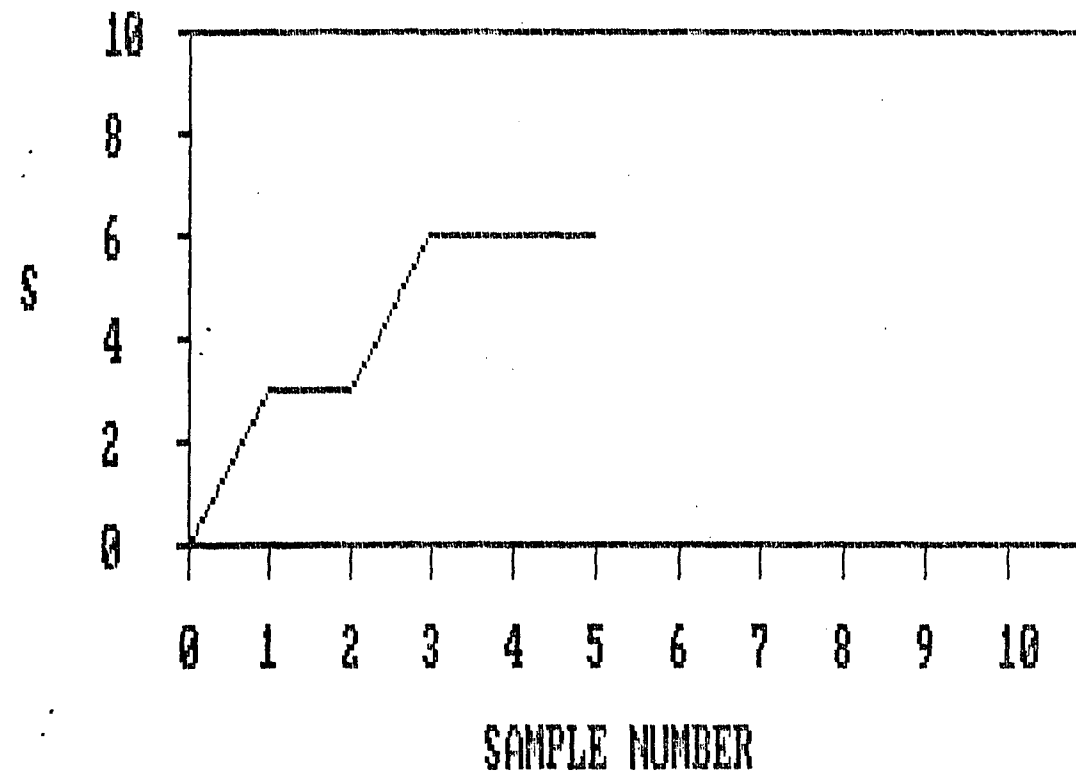
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

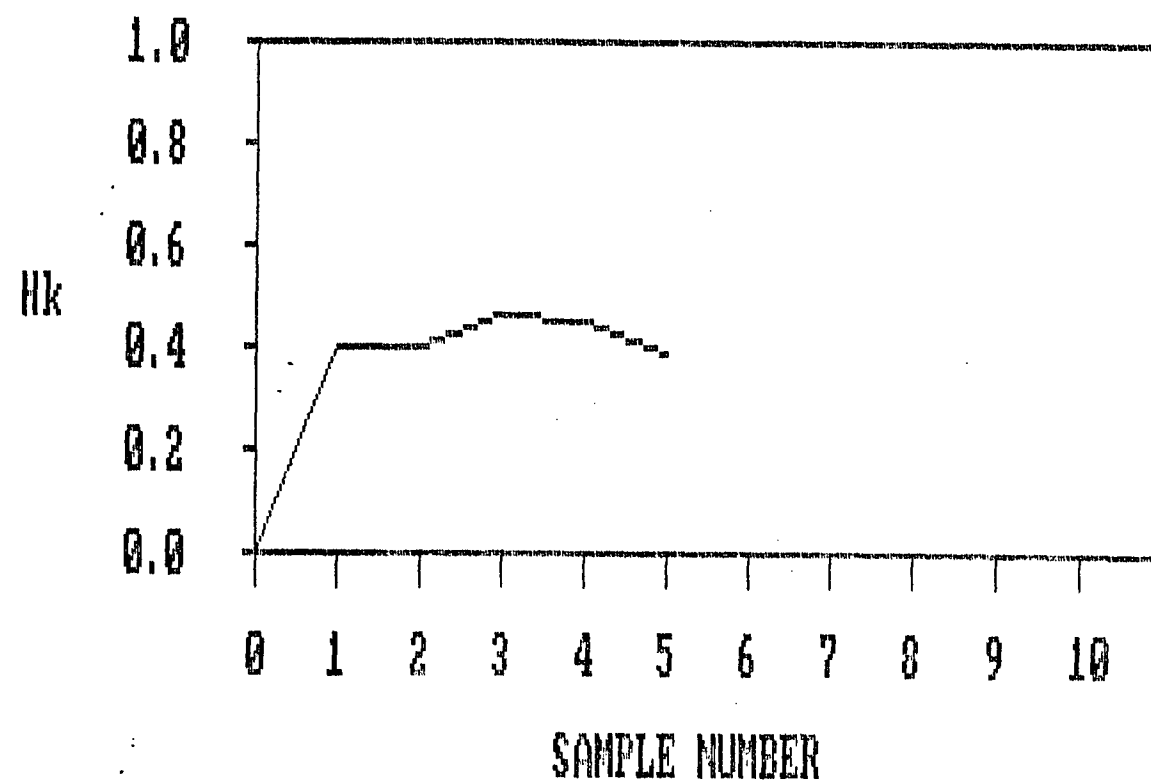
SIMPSON DIVERSITY: .2198608 .8346561
INVERSE, SIMPSON DOM.: .2025053 6.048
SHANNON DIVERSITY: .220381 1.791759
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2153487 1.773599
(MAX. IS IN BASE E)
SHELDON EVENNESS: .2473652
HEIP EVENNESS: 9.683819E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM Hk
1	2	1	0.00
2	4	2	0.26
3	5	3	0.63
4	3	3	0.77
5	1	3	0.70

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	12
2	Cuna dalli	4
3	Scolecopsis squamata	2

TOTAL = 18

ENTER TO CONTINUE?

ESTIMATES

$H' = 1.008843$
 $\text{var } (H') = .0062954$
 $J' = .9182884$
 $\text{var } (J') = .2527766$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 18
MARGALEF DIVERSITY: 1.593279
MENHINICK DIVERSITY: .7071068
SIMPSON DOMINANCE: .4771242
SIMPSON DIVERSITY: .5228758
INVERSE, SIMPSON DIV.: 2.095891
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5061728
SIMPSON DIV.: .4938272
INVERSE OF DOMINANCE: 1.97561
SHANNON DIVERSITY*:
.3685794 .8486854 1.224394
BRILLOUIN DIVERSITY*:
.3024868 .6965017 1.00484
*BASE 10, BASE E, BASE 2

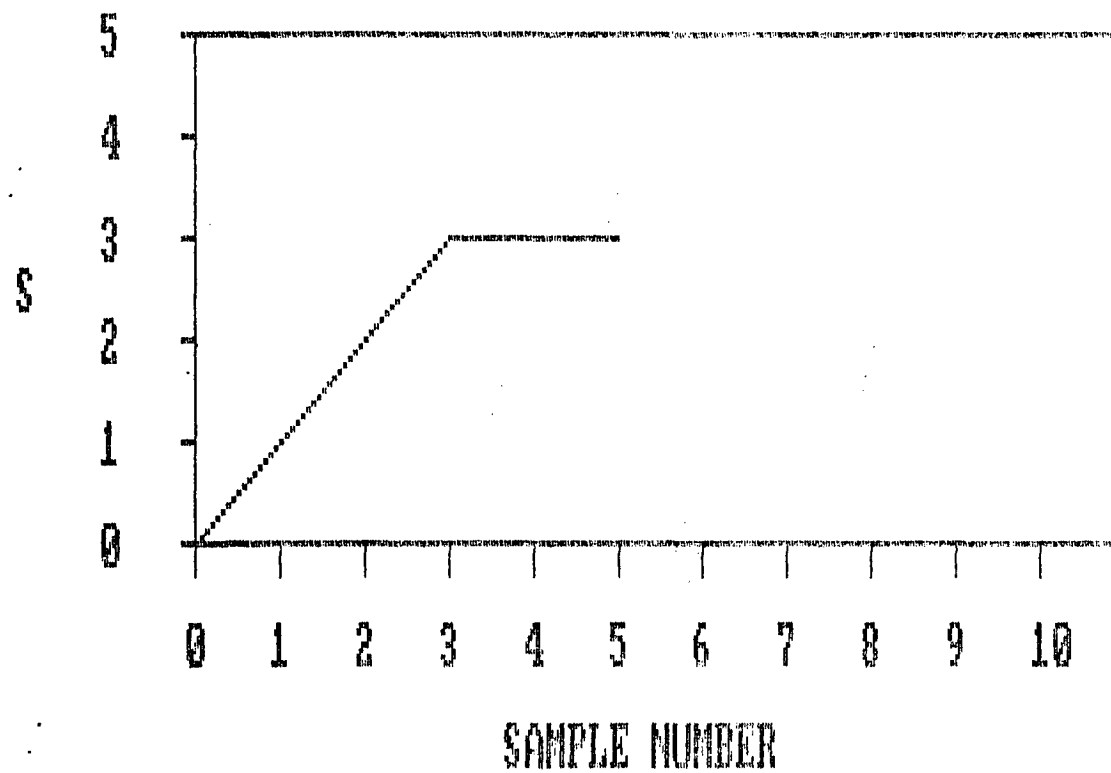
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

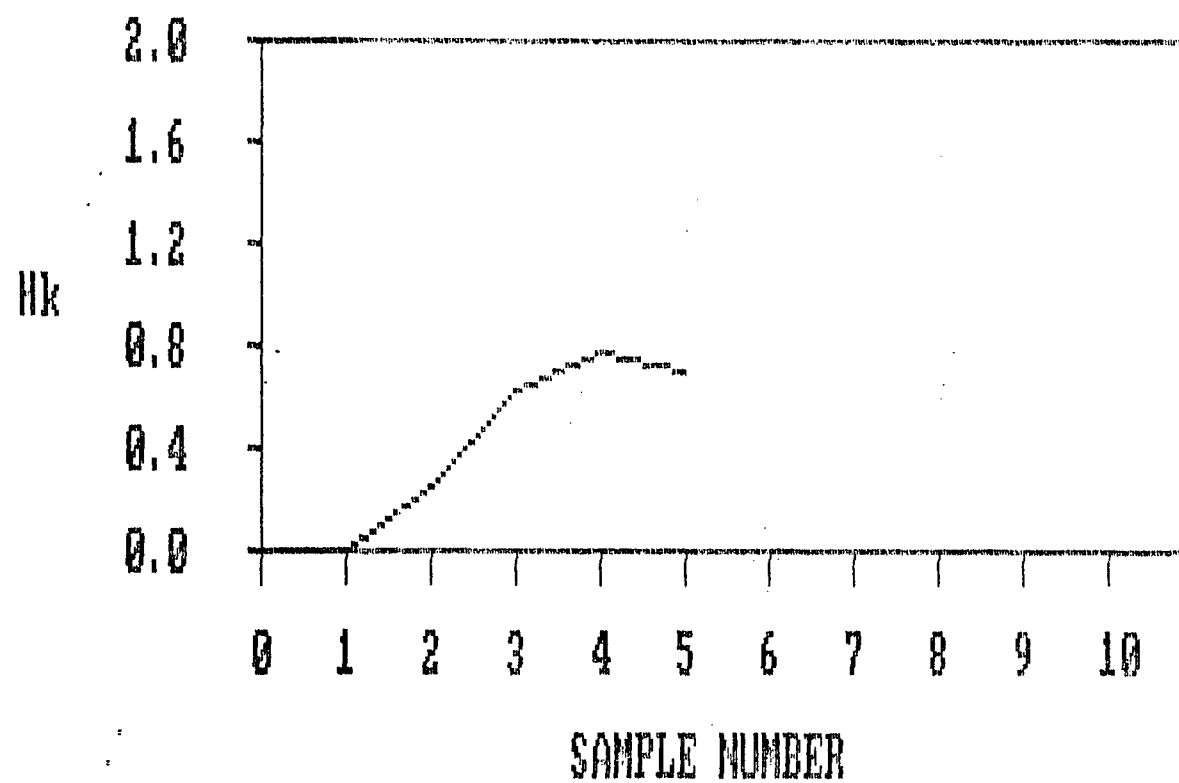
SIMPSON DIVERSITY: .7407407 .7058824
INVERSE, SIMPSON DOM.: .6164384 3.4
SHANNON DIVERSITY: .7725067 1.090612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7526271 .9254273
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7788577
HEIP EVENNESS: .6682866
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2MA88.SWA SHIP ISLAND STA. 2 SWASH 24 MAY 1988

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	1	3	0.63
2	5	4	0.68
3	3	5	0.74
4	4	5	0.76
5	2	5	0.77

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
-----	-----	-----
1	Cuna dalli	338
2	Haustorius sp A	212
3	Scolecopsis squamata	7
4	Donax variabilis	4
5	Paraonis fulgens	2

TOTAL = 558

ENTER TO CONTINUE?

ESTIMATES

H'	=	.8805222
var (H')	=	6.979704E-05
J'	=	.5160325
var (J')	=	2.694564E-05
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
 NO. OF INDIVIDUALS = 558
 MARGALEF DIVERSITY: 1.456328
 MENHINICK DIVERSITY: .2116669
 SIMPSON DOMINANCE: .4998102
 SIMPSON DIVERSITY: .5001898
 INVERSE, SIMPSON DIV.: 2.00076
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .5007066
 SIMPSON DIV.: .4992935
 INVERSE OF DOMINANCE: 1.997178
 SHANNON DIVERSITY*:
 .3414673 .7862575 1.13433
 BRILLOUIN DIVERSITY*:
 .3350985 .7715929 1.113173
 *BASE 10, BASE E, BASE 2

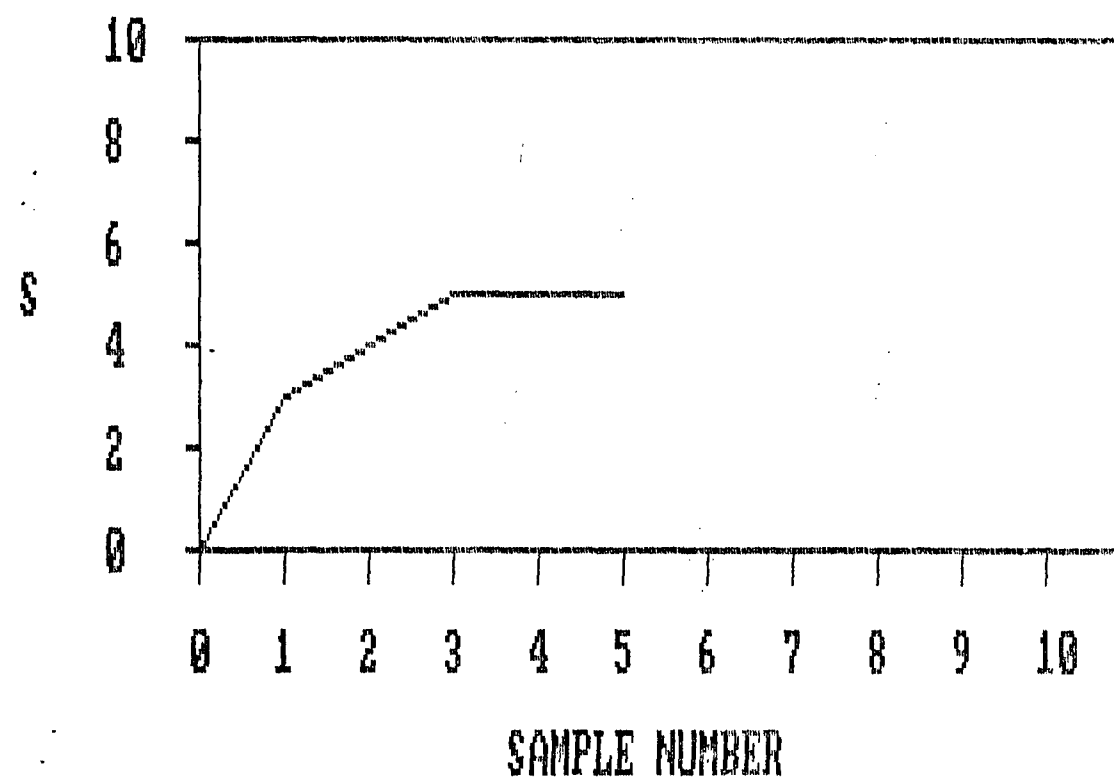
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

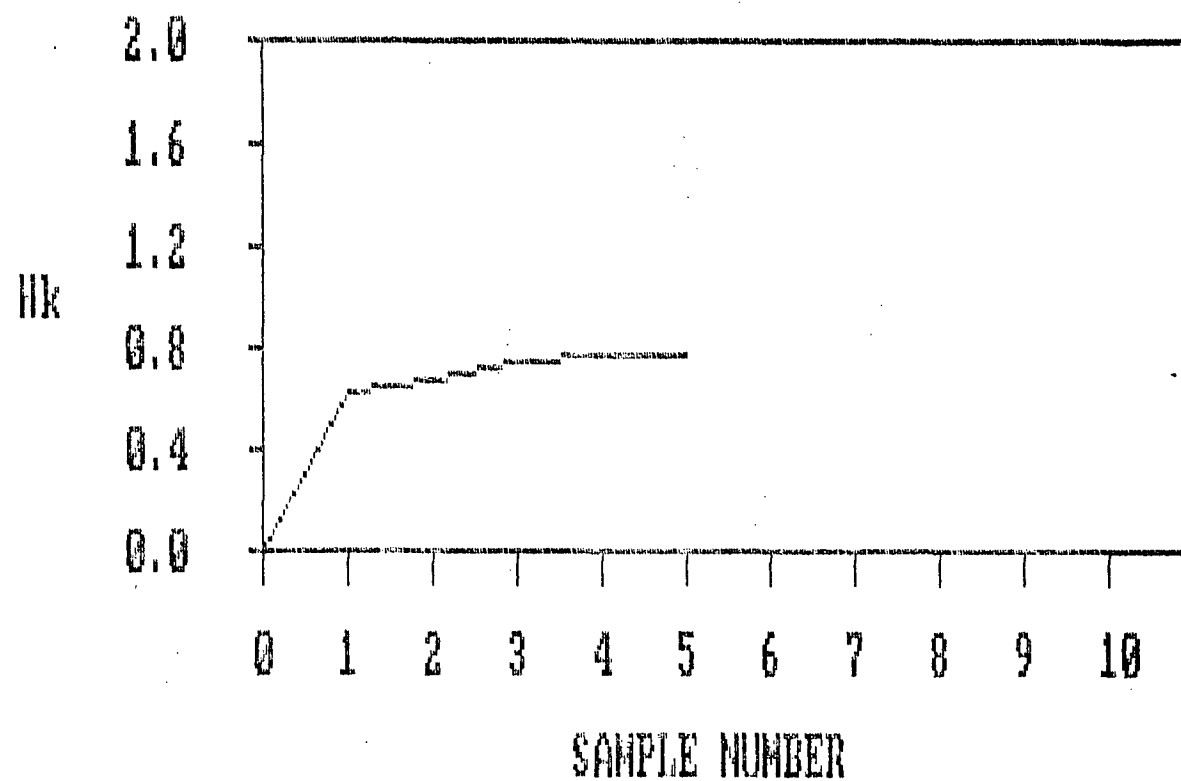
SIMPSON DIVERSITY: .6241168 .8014363
 INVERSE, SIMPSON DOM.: .3972783 3.036166
 SHANNON DIVERSITY: .4885292 1.609433
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .479944 1.607673
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .4390331
 HEIP EVENNESS: .2987914
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2JL88.SWA

SHIP ISLAND

STA. 2

SWASH

12 JULY 1988

NUM

SAMP

CUM S

CUM HR

1	2	3	0.60
2	4	3	0.20
3	3	3	0.18
4	5	3	0.13
5	1	3	0.11

ENTER TO CONTINUE?

RANK

TAXON

NUMBER

1	Chaetopterus ad A	73
2	Emerita talpoida	1
3	Grapsus marginatus	1

TOTAL = 75

ENTER TO CONTINUE?

STATISTICS

$\bar{x}$ = 0.000000E+01
 σ^2 = 0.000000E+01
 σ = 0.000000E+01
 σ^2 = 0.000000E+01
 σ = 0.000000E+01

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
 NO. OF INDIVIDUALS = 75
 MARGALEF DIVERSITY: 1.008682
 MENHINICK DIVERSITY: .0464102
 SIMPSON DOMINANCE: .947027
 SIMPSON DIVERSITY: 5.297297E-02
 INVERSE, SIMPSON DIV.: 1.055119
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .9477333
 SIMPSON DIV.: 5.226666E-02
 INVERSE OF DOMINANCE: 1.055119
 SHANNON DIVERSITY*:
 6.142697E-02 .1414-08 .204056
 PRILLOUIN DIVERSITY*:
 4.992380E-02 .111054 .1658436
 *BASE 10, BASE E, BASE 2

ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .0789 .0756757
 INVERSE, SIMPSON DOM.: .0414658 1.088881
 SHANNON DIVERSITY: .118710 1.058012
 (MAX. IS IN BASE E)
 PRILLOUIN DIVERSITY: .1151008 1.138554
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: .8809771
 REIP EVENNESS: 7.106618E-01
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

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RECEIVED

Case	Case	Case	Case	Case	Case
1. <i>Case 1</i>	2. <i>Case 2</i>	3. <i>Case 3</i>	4. <i>Case 4</i>	5. <i>Case 5</i>	6. <i>Case 6</i>
7. <i>Case 7</i>	8. <i>Case 8</i>	9. <i>Case 9</i>	10. <i>Case 10</i>	11. <i>Case 11</i>	12. <i>Case 12</i>
13. <i>Case 13</i>	14. <i>Case 14</i>	15. <i>Case 15</i>	16. <i>Case 16</i>	17. <i>Case 17</i>	18. <i>Case 18</i>
19. <i>Case 19</i>	20. <i>Case 20</i>	21. <i>Case 21</i>	22. <i>Case 22</i>	23. <i>Case 23</i>	24. <i>Case 24</i>
25. <i>Case 25</i>	26. <i>Case 26</i>	27. <i>Case 27</i>	28. <i>Case 28</i>	29. <i>Case 29</i>	30. <i>Case 30</i>
31. <i>Case 31</i>	32. <i>Case 32</i>	33. <i>Case 33</i>	34. <i>Case 34</i>	35. <i>Case 35</i>	36. <i>Case 36</i>
37. <i>Case 37</i>	38. <i>Case 38</i>	39. <i>Case 39</i>	40. <i>Case 40</i>	41. <i>Case 41</i>	42. <i>Case 42</i>
43. <i>Case 43</i>	44. <i>Case 44</i>	45. <i>Case 45</i>	46. <i>Case 46</i>	47. <i>Case 47</i>	48. <i>Case 48</i>
49. <i>Case 49</i>	50. <i>Case 50</i>	51. <i>Case 51</i>	52. <i>Case 52</i>	53. <i>Case 53</i>	54. <i>Case 54</i>
55. <i>Case 55</i>	56. <i>Case 56</i>	57. <i>Case 57</i>	58. <i>Case 58</i>	59. <i>Case 59</i>	60. <i>Case 60</i>
61. <i>Case 61</i>	62. <i>Case 62</i>	63. <i>Case 63</i>	64. <i>Case 64</i>	65. <i>Case 65</i>	66. <i>Case 66</i>
67. <i>Case 67</i>	68. <i>Case 68</i>	69. <i>Case 69</i>	70. <i>Case 70</i>	71. <i>Case 71</i>	72. <i>Case 72</i>
73. <i>Case 73</i>	74. <i>Case 74</i>	75. <i>Case 75</i>	76. <i>Case 76</i>	77. <i>Case 77</i>	78. <i>Case 78</i>
79. <i>Case 79</i>	80. <i>Case 80</i>	81. <i>Case 81</i>	82. <i>Case 82</i>	83. <i>Case 83</i>	84. <i>Case 84</i>
85. <i>Case 85</i>	86. <i>Case 86</i>	87. <i>Case 87</i>	88. <i>Case 88</i>	89. <i>Case 89</i>	90. <i>Case 90</i>
91. <i>Case 91</i>	92. <i>Case 92</i>	93. <i>Case 93</i>	94. <i>Case 94</i>	95. <i>Case 95</i>	96. <i>Case 96</i>
97. <i>Case 97</i>	98. <i>Case 98</i>	99. <i>Case 99</i>	100. <i>Case 100</i>	101. <i>Case 101</i>	102. <i>Case 102</i>
103. <i>Case 103</i>	104. <i>Case 104</i>	105. <i>Case 105</i>	106. <i>Case 106</i>	107. <i>Case 107</i>	108. <i>Case 108</i>
109. <i>Case 109</i>	110. <i>Case 110</i>	111. <i>Case 111</i>	112. <i>Case 112</i>	113. <i>Case 113</i>	114. <i>Case 114</i>
115. <i>Case 115</i>	116. <i>Case 116</i>	117. <i>Case 117</i>	118. <i>Case 118</i>	119. <i>Case 119</i>	120. <i>Case 120</i>
121. <i>Case 121</i>	122. <i>Case 122</i>	123. <i>Case 123</i>	124. <i>Case 124</i>	125. <i>Case 125</i>	126. <i>Case 126</i>
127. <i>Case 127</i>	128. <i>Case 128</i>	129. <i>Case 129</i>	130. <i>Case 130</i>	131. <i>Case 131</i>	132. <i>Case 132</i>
133. <i>Case 133</i>	134. <i>Case 134</i>	135. <i>Case 135</i>	136. <i>Case 136</i>	137. <i>Case 137</i>	138. <i>Case 138</i>
139. <i>Case 139</i>	140. <i>Case 140</i>	141. <i>Case 141</i>	142. <i>Case 142</i>	143. <i>Case 143</i>	144. <i>Case 144</i>
145. <i>Case 145</i>	146. <i>Case 146</i>	147. <i>Case 147</i>	148. <i>Case 148</i>	149. <i>Case 149</i>	150. <i>Case 150</i>
151. <i>Case 151</i>	152. <i>Case 152</i>	153. <i>Case 153</i>	154. <i>Case 154</i>	155. <i>Case 155</i>	156. <i>Case 156</i>
157. <i>Case 157</i>	158. <i>Case 158</i>	159. <i>Case 159</i>	160. <i>Case 160</i>	161. <i>Case 161</i>	162. <i>Case 162</i>
163. <i>Case 163</i>	164. <i>Case 164</i>	165. <i>Case 165</i>	166. <i>Case 166</i>	167. <i>Case 167</i>	168. <i>Case 168</i>
169. <i>Case 169</i>	170. <i>Case 170</i>	171. <i>Case 171</i>	172. <i>Case 172</i>	173. <i>Case 173</i>	174. <i>Case 174</i>
175. <i>Case 175</i>	176. <i>Case 176</i>	177. <i>Case 177</i>	178. <i>Case 178</i>	179. <i>Case 179</i>	180. <i>Case 180</i>
181. <i>Case 181</i>	182. <i>Case 182</i>	183. <i>Case 183</i>	184. <i>Case 184</i>	185. <i>Case 185</i>	186. <i>Case 186</i>
187. <i>Case 187</i>	188. <i>Case 188</i>	189. <i>Case 189</i>	190. <i>Case 190</i>	191. <i>Case 191</i>	192. <i>Case 192</i>
193. <i>Case 193</i>	194. <i>Case 194</i>	195. <i>Case 195</i>	196. <i>Case 196</i>	197. <i>Case 197</i>	198. <i>Case 198</i>
199. <i>Case 199</i>	200. <i>Case 200</i>	201. <i>Case 20</i>			

SHIP ISLAND STATION 2

15 M FROM SHORE

BOX CORER - INFAUNAL

NUM	SAMP	CUM S	CUM HK
---	----	-----	-----
1	2	10	0.49
2	3	14	0.63
3	1	16	0.47
4	4	16	0.49
5	5	18	0.50

ENTER TO CONTINUE?

1	Cuna dalli	14684
2	Lepidactylus sp A	2357
3	Exosphaeroma diminutum	73
4	Leitoscoloplos fragilis	49
5	Hauastorius sp A	45
6	Scolecopsis squamata	19
7	Branchiostoma sp	14
8	Ancinus depressus	13
9	Paraonis fulgens	12
10	Pinnixa behreae	12
11	Spilocuma salomani	6
12	Callichirus islagrande	5
13	Bowmaniella floridana	3
14	Metamysidopsis swifti	3
15	Donax variabilis	2
16	Spilocuma watlingi	1
17	Phyllodoce sp	1
18	Donax texasianus	1

TOTAL = 17300

ENTER TO CONTINUE?

ESTIMATES

$H^2 = .580616$
 $\text{var } (H^2) = 1.202981\text{E-}03$
 $J^2 = .2003774$
 $\text{var } (J^2) = 1.439844\text{E-}04$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 18
NO. OF INDIVIDUALS = 17300
MARGALEF DIVERSITY: 4.011282
MENHINICK DIVERSITY: .1368515
SIMPSON DOMINANCE: .7390211
SIMPSON DIVERSITY: .2609789
INVERSE, SIMPSON DIV.: 1.353141
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .7390364
SIMPSON DIV.: .2609636
INVERSE OF DOMINANCE: 1.353113
SHANNON DIVERSITY*:
.2195384 .5055058 .7292907
BRILLOUIN DIVERSITY*:
.218637 .5034303 .7262963
*BASE 10, BASE E, BASE 2

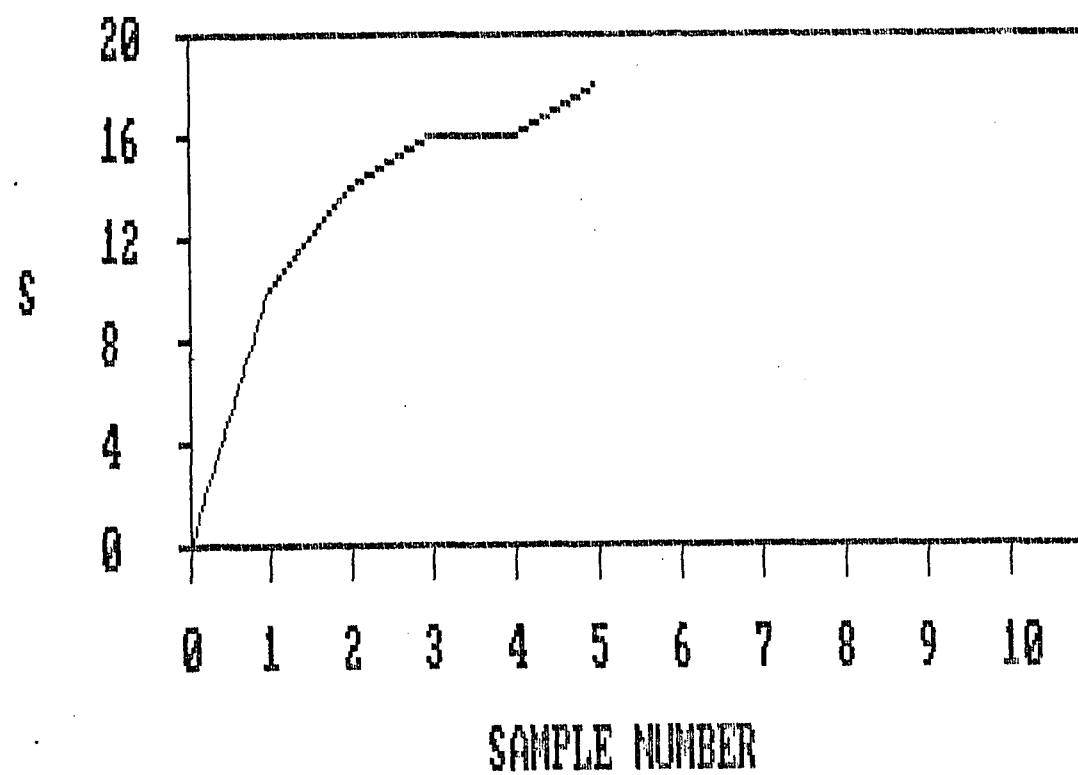
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

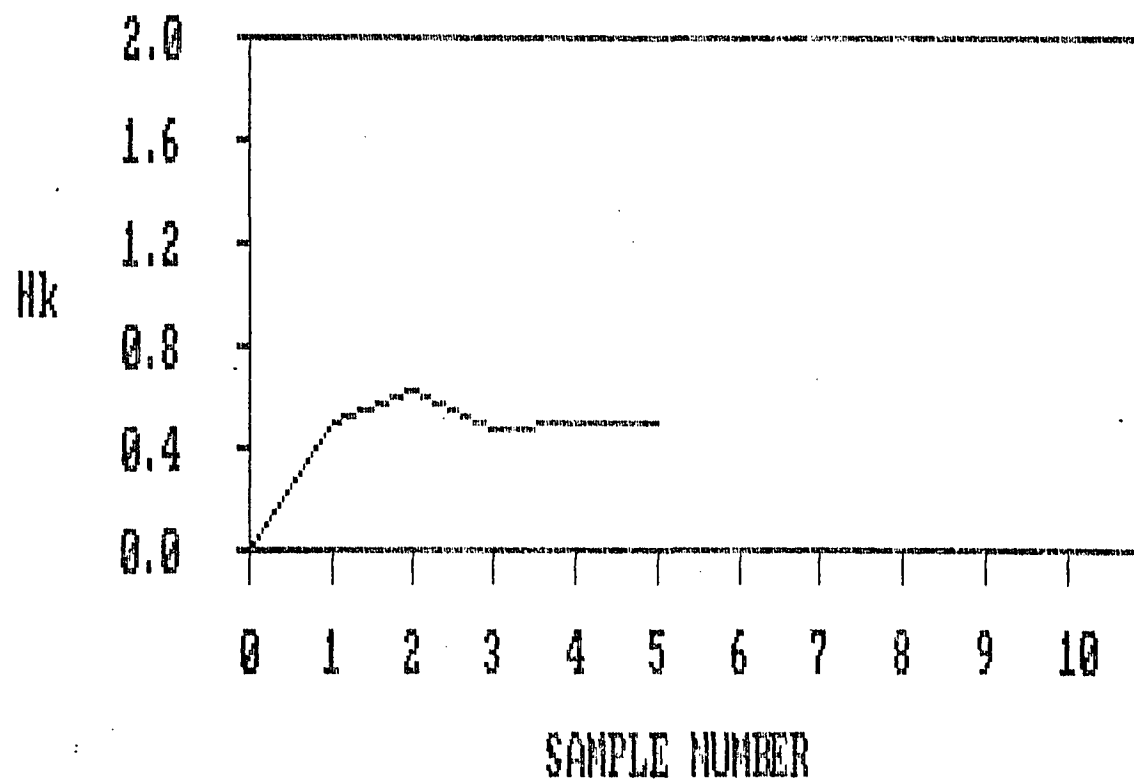
SIMPSON DIVERSITY: .2763147 .944499
INVERSE, SIMPSON DOM.: 7.510065E-02 18.01771
SHANNON DIVERSITY: .174893 2.890372
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1743841 2.886905
(MAX. IS IN BASE E)
SHELDON EVENNESS: 9.210132E-02
HEIP EVENNESS: 3.869552E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2N087.15M SHIP ISLAND STA. 2 15M 20 NOVEMBER 1987

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	4	7	1.33
2	5	11	1.20
3	2	16	1.43
4	1	18	1.48
5	3	18	1.47

ENTER TO CONTINUE?

1	Cuna dalli	366
2	Lepidactylus sp A	164
3	Exosphaeroma diminutum	106
4	Leitoscoloplos fragilis	51
5	Donax texasianus	10
6	Spilocuma salomani	9
7	Callichirus islagrande	9
8	Scoelelepis squamata	7
9	Paraonis fulgens	6
10	Parahaustorius sp A	4
11	Ancinus depressus	2
12	Bowmaniella floridana	2
13	Pinnixa behreae	2
14	Callinectes sapidus	1
15	Nephtys bucera	1
16	unid nemertean	1
17	Oxyurostylis smithi	1
18	Branchiostoma sp	1

TOTAL = 743

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.541603
var (H')	=	8.733988E-03
J'	=	.5333582
var (J')	=	1.045455E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 18
NO. OF INDIVIDUALS = 743
MARGALEF DIVERSITY: 5.921305
MENHINICK DIVERSITY: .660356
SIMPSON DOMINANCE: .3162055
SIMPSON DIVERSITY: .6837945
INVERSE, SIMPSON DIV.: 3.1625
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3171258
SIMPSON DIV.: .6828742
INVERSE OF DOMINANCE: 3.153323
SHANNON DIVERSITY*:
.6567059 1.512121 2.18153
BRILLOUIN DIVERSITY*:
.6392635 1.472189 2.12392
*BASE 10, BASE E, BASE 2

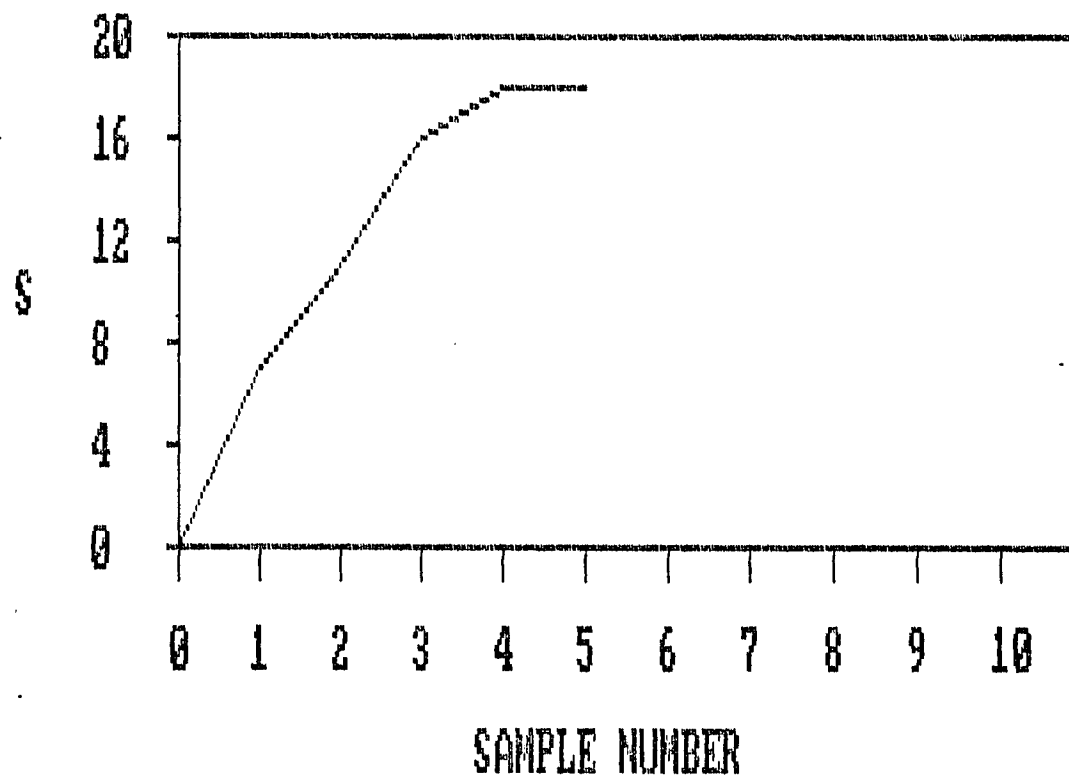
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

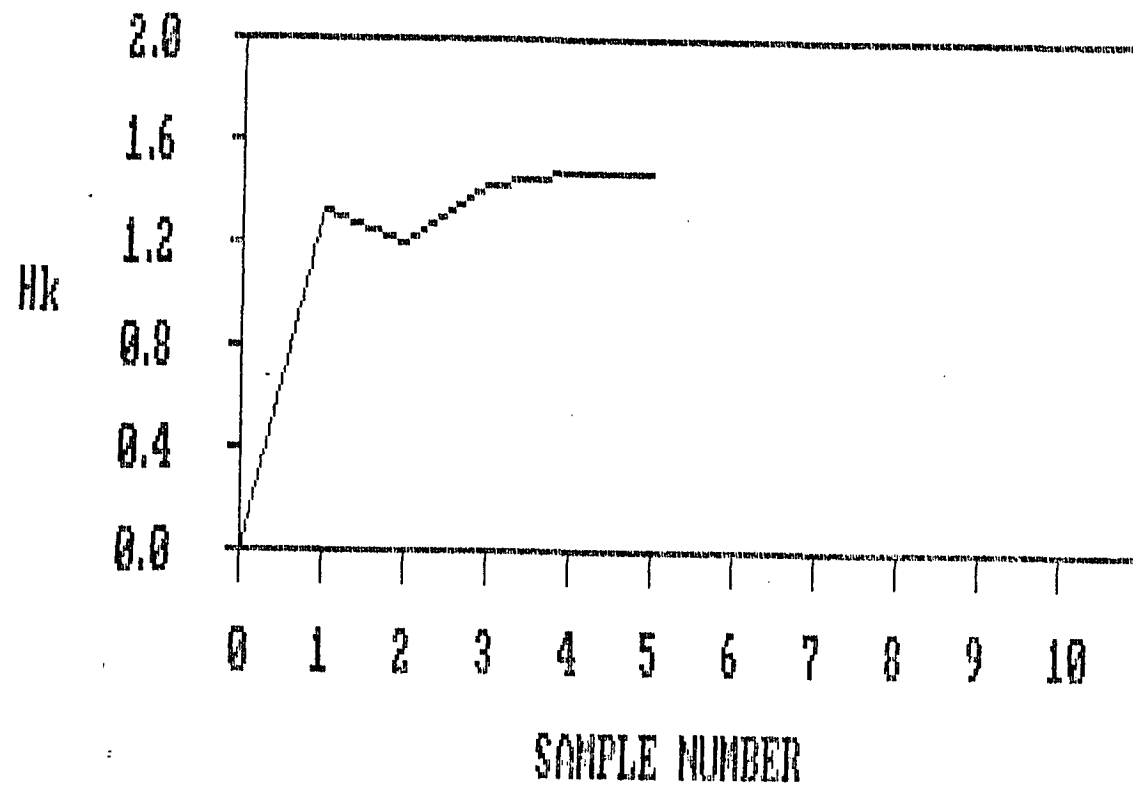
SIMPSON DIVERSITY: .7230432 .9457173
INVERSE, SIMPSON DOM.: .1716691 18.42207
SHANNON DIVERSITY: .5231581 2.890372
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5161265 2.85238
(MAX. IS IN BASE E)
SHELDON EVENNESS: .2520191
HEIP EVENNESS: .2080202
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
1	2	8	1.40
2	1	9	1.38
3	5	10	1.58
4	4	10	1.53
5	3	11	1.55

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Cuna dalli	144
2	Leitoscoloplos fragilis	58
3	Haustorius sp A	46
4	Lepidactylus sp A	31
5	Paraonis fulgens	17
6	Scoelelepis squamata	9
7	Exosphaeroma diminutum	3
8	Donax texasianus	3
9	Spilocuma salomani	2
10	Pinnixa behreae	2
11	Nephtys bucera	1
TOTAL =		316

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.515781
var (H')	=	1.632357E-02
J'	=	.6321297
var (J')	=	2.838929E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 11
NO. OF INDIVIDUALS = 316
MARGALEF DIVERSITY: 4.000501
MENHINICK DIVERSITY: .6187984
SIMPSON DOMINANCE: .2738397
SIMPSON DIVERSITY: .7261604
INVERSE, SIMPSON DIV.: 3.651772
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2761377
SIMPSON DIV.: .7238624
INVERSE OF DOMINANCE: 3.621382
SHANNON DIVERSITY*:
.6978679 1.6069 2.318267
BRILLOUIN DIVERSITY*:
.6717491 1.546759 2.231502
*BASE 10, BASE E, BASE 2

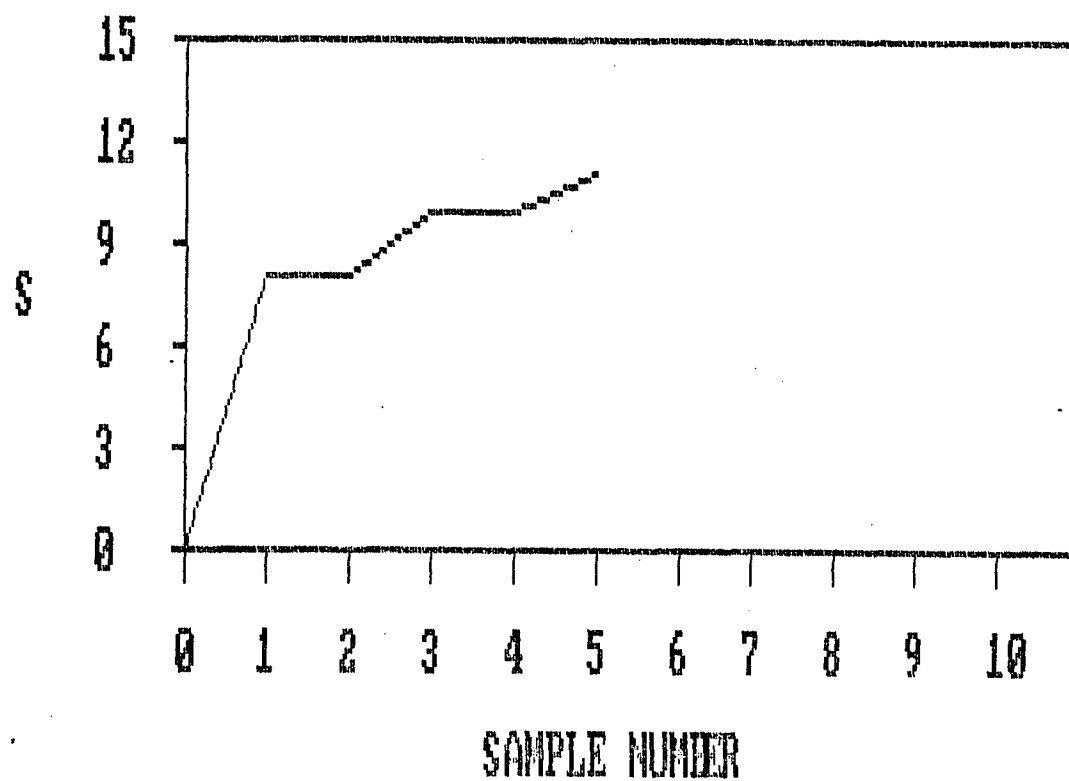
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

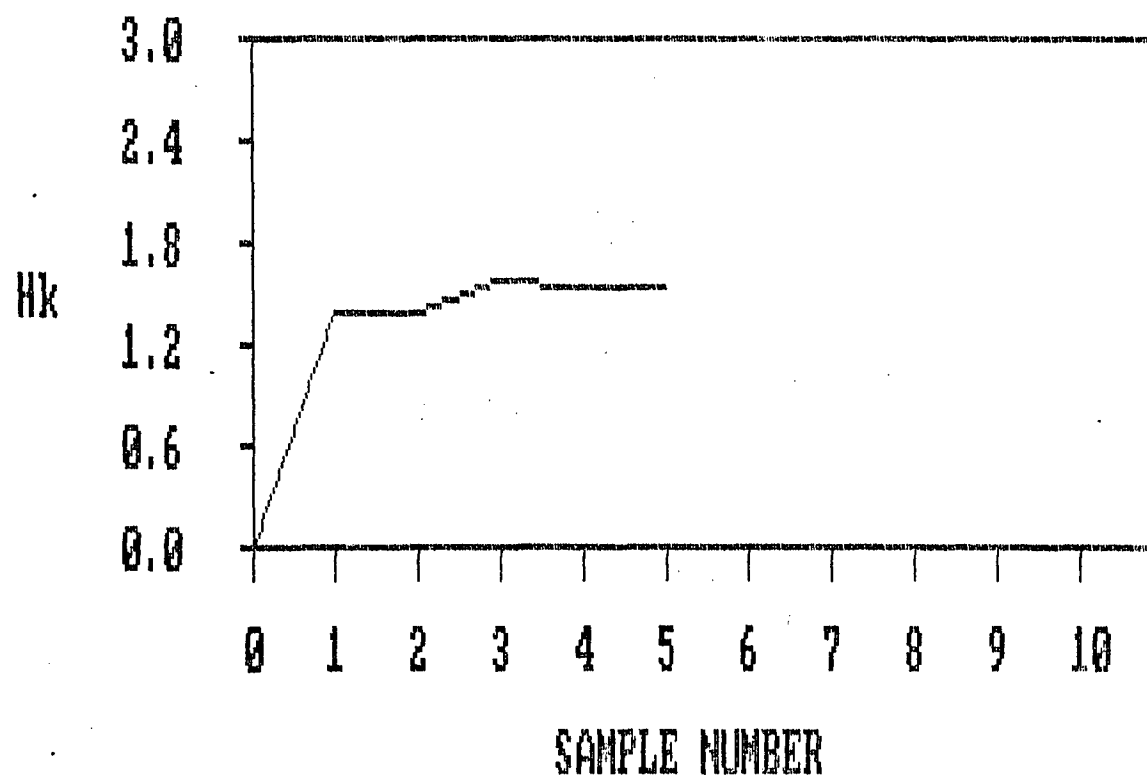
SIMPSON DIVERSITY: .7962486 .9119769
INVERSE, SIMPSON DOM.: .3214403 11.36065
SHANNON DIVERSITY: .6701295 2.397895
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .6453549 2.396758
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4533935
HEIP EVENNESS: .3987328
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2MR88.15M SHIP ISLAND STA. 2 15M 23 MARCH 1988

NUM	SAMP	CUM S	CUM HK
1	3	6	0.80
2	4	7	0.57
3	2	10	0.56
4	5	10	0.62
5	1	11	0.63

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Cuna dalli	733
2	Haustorius sp A	69
3	Paraonis fulgens	37
4	Spilocuma salomani	11
5	Leitoscoloplos fragilis	5
6	Exosphaeroma diminutum	4
7	Scolecopsis squamata	3
8	Callichirus islagrande	2
9	Oxyurostylis smithi	2
10	Lepidactylus sp A	1
11	Kallipapseudes sp A	1

TOTAL = 868

ENTER TO CONTINUE?

ESTIMATES

H'	=	.7696312
var (H')	=	1.135445E-02
J'	=	.3209611
var (J')	=	1.97472E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 11
NO. OF INDIVIDUALS = 868
MARGALEF DIVERSITY: 3.403074
MENHINICK DIVERSITY: .3733643
SIMPSON DOMINANCE: .7211849
SIMPSON DIVERSITY: .2788152
INVERSE, SIMPSON DIV.: 1.386607
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .7215061
SIMPSON DIV.: .2784939
INVERSE OF DOMINANCE: 1.38599
SHANNON DIVERSITY*:
.2829675 .6515568 .9399977
BRILLOUIN DIVERSITY*:
.2743186 .6316419 .9112666
*BASE 10, BASE E, BASE 2

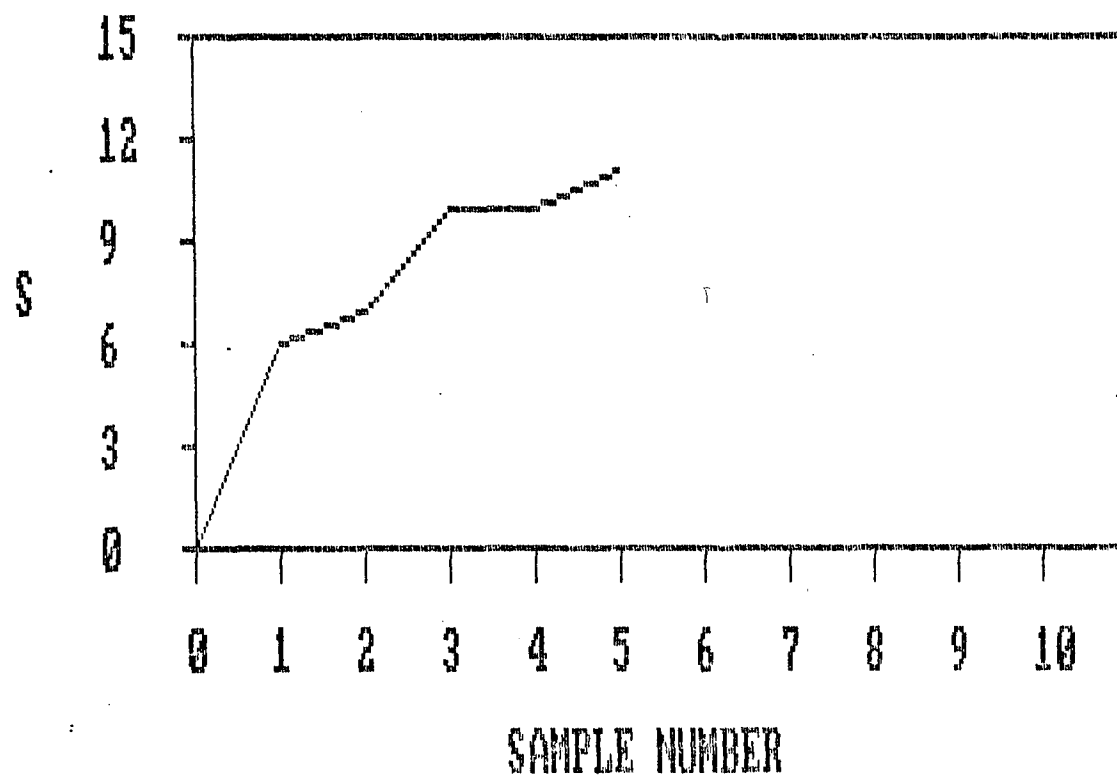
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

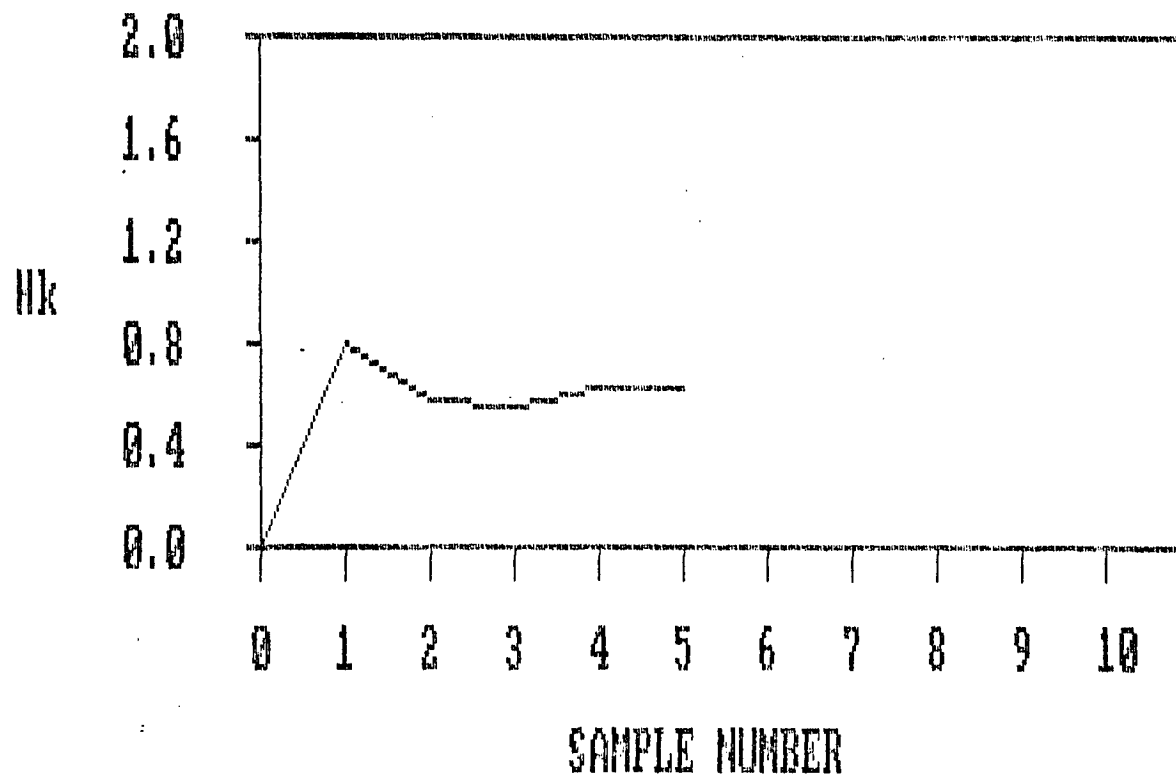
SIMPSON DIVERSITY: .3063433 .9101395
INVERSE, SIMPSON DOM.: .1246013 11.12825
SHANNON DIVERSITY: .2717203 2.397895
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2621714 2.409271
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1744114
HEIP EVENNESS: 9.195252E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2MA88.15M SHIP ISLAND STA. 2 15M 24 MAY 1988

NUM	SAMP	CUM S	CUM HK
1	2	9	1.67
2	5	13	1.56
3	2	14	1.49
4	1	14	1.55
5	4	14	1.44

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	195
2	Spilocuma salomani	45
3	Scoelelepis squamata	22
4	Nephtys bucera	13
5	Cuna dalli	13
6	Pinnixa behreae	10
7	Paraonis fulgens	9
8	Lepidactylus sp A	8
9	Donax variabilis	5
10	Exosphaeroma diminutum	2
11	Leitoscoloplos fragilis	2
12	Parahaustorius sp A	2
13	Dispio uncinata	1
14	Ancinus depressus	1
TOTAL =		328

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.470045
var (H')	=	.1676908
J'	=	.5570343
var (J')	=	.0240775
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 14
NO. OF INDIVIDUALS = 328
MARGALEF DIVERSITY: 5.167191
MENHINICK DIVERSITY: .7730206
SIMPSON DOMINANCE: .3806594
SIMPSON DIVERSITY: .6193407
INVERSE, SIMPSON DIV.: 2.627021
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3825476
SIMPSON DIV.: .6174524
INVERSE OF DOMINANCE: 2.614054
SHANNON DIVERSITY*:
.6544066 1.506827 2.173892
BRILLOUIN DIVERSITY*:
.6237095 1.436144 2.071918
*BASE 10, BASE E, BASE 2

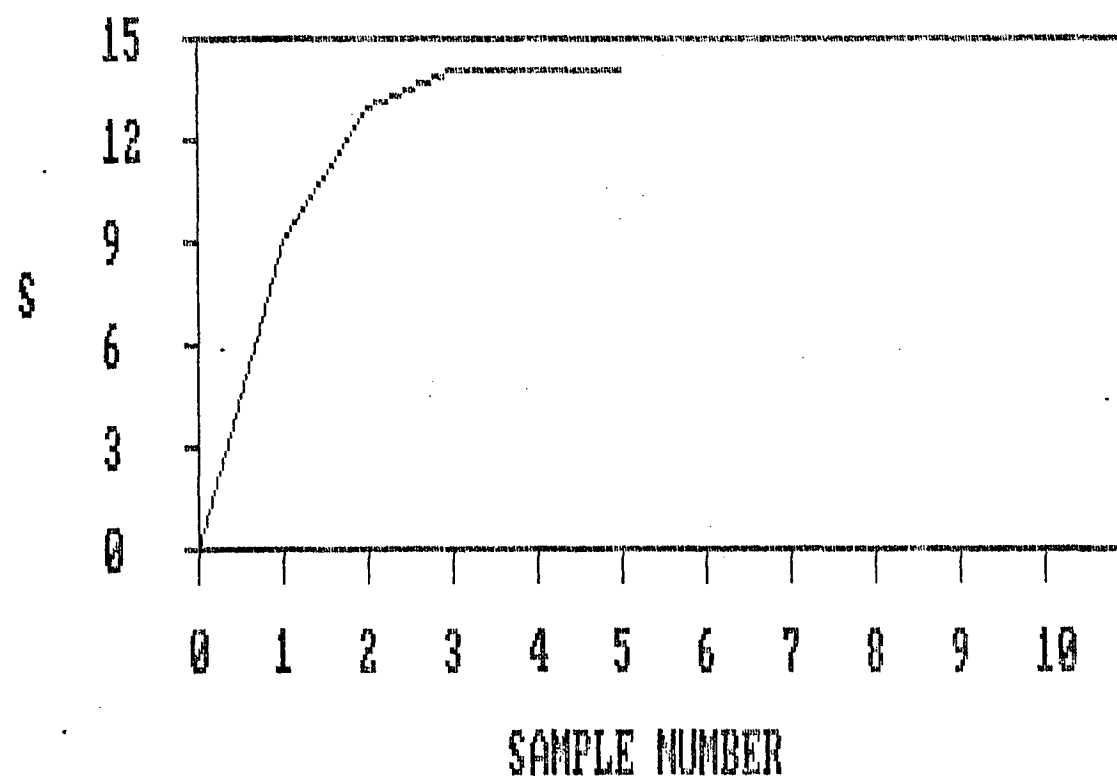
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

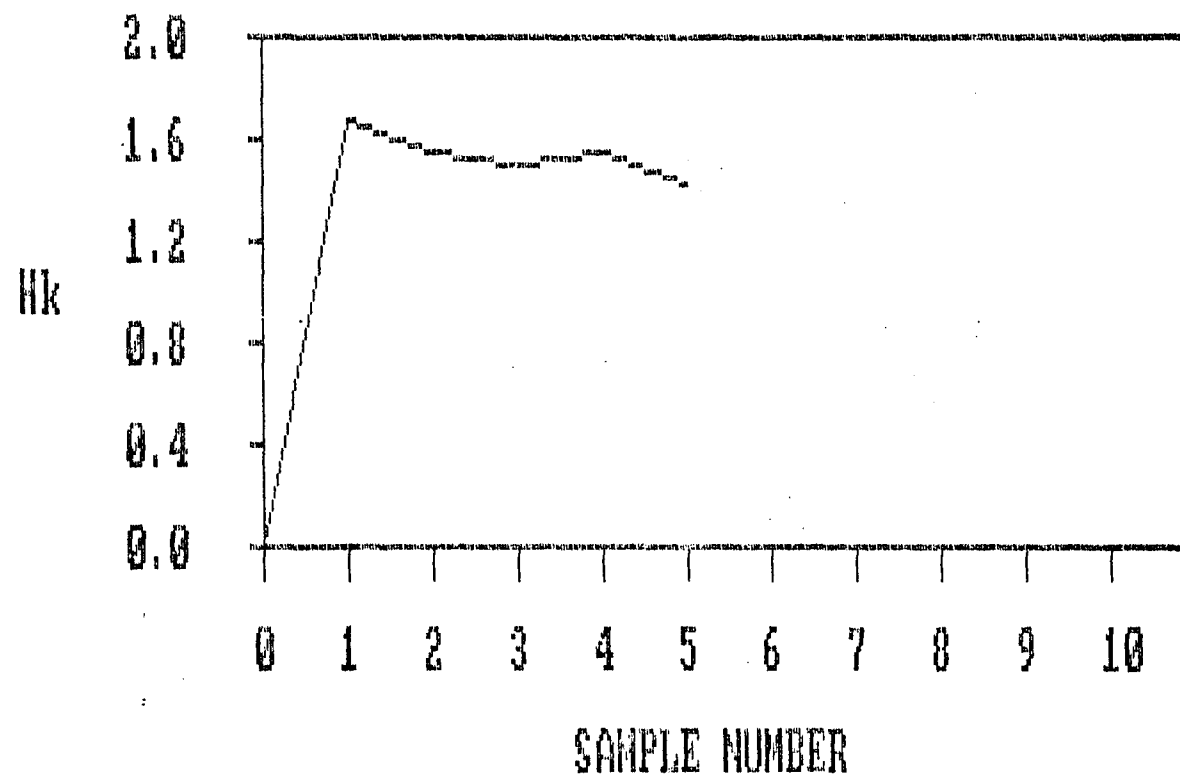
SIMPSON DIVERSITY: .6649488 .9314111
INVERSE, SIMPSON DOM.: .1801845 14.57962
SHANNON DIVERSITY: .5709717 2.639057
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5528373 2.59777
(MAX. IS IN BASE E)
SHELDON EVENNESS: .3223136
HEIP EVENNESS: .2701839
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: SI2JL88.15M

SHIP ISLAND

STA. 2- 15M

12 JULY 1988

NUM	SAMP	CUM S	CUM HL
1	3	7	1.32
2	5	9	1.38
3	4	9	1.40
4	2	10	1.37
5	1	10	1.38

ENTER TO CONTINUE?

RANK	SPECIES	NUMBER
1	Marstonius sp A	30
2	Cuma nulli	85
3	Spirocoma saiomani	57
4	Leucomysidopsis swifti	7
5	Scotolepis samacata	9
6	Ancinus depressus	1
7	Chelodactylus dentatus	1
8	Pomax tenebrosus	1
9	Leptocottus baroni	1
10	Lepidactylus sp A	1

TOTAL = 140

ENTER TO CONTINUE?

ESTIMATES

$H^2 = 0.005006$
 $\text{var}(H^2) = 1.12141E-0$
 $H^2 = 0.008007$
 $\text{var}(H^2) = 1.12141E-0$

NUMBER OF SPECIES = 10
 NO. OF INDIVIDUALS = 240
 MARGALEF DIVERSITY: 3.781177
 MENHINICK DIVERSITY: .6454972
 SIMPSON DOMINANCE: .2984658
 SIMPSON DIVERSITY: .7015342
 INVERSE, SIMPSON DIV.: 3.350467
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .3013889
 SIMPSON DIV.: .6986111
 INVERSE OF DOMINANCE: 3.317971
 SHANNON DIVERSITY*:
 .6278207 1.445611 2.035575
 BRILLOUIN DIVERSITY*:
 .5990684 1.379268 1.989884
 *BASE 10, BASE E, BASE 2

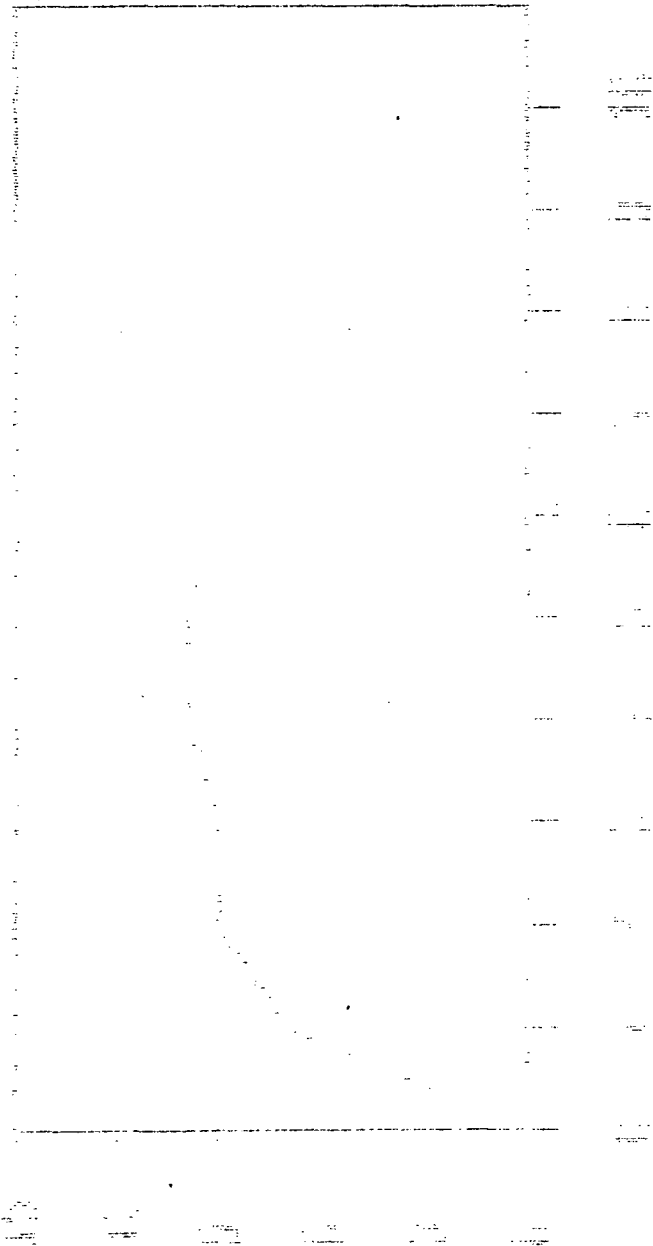
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

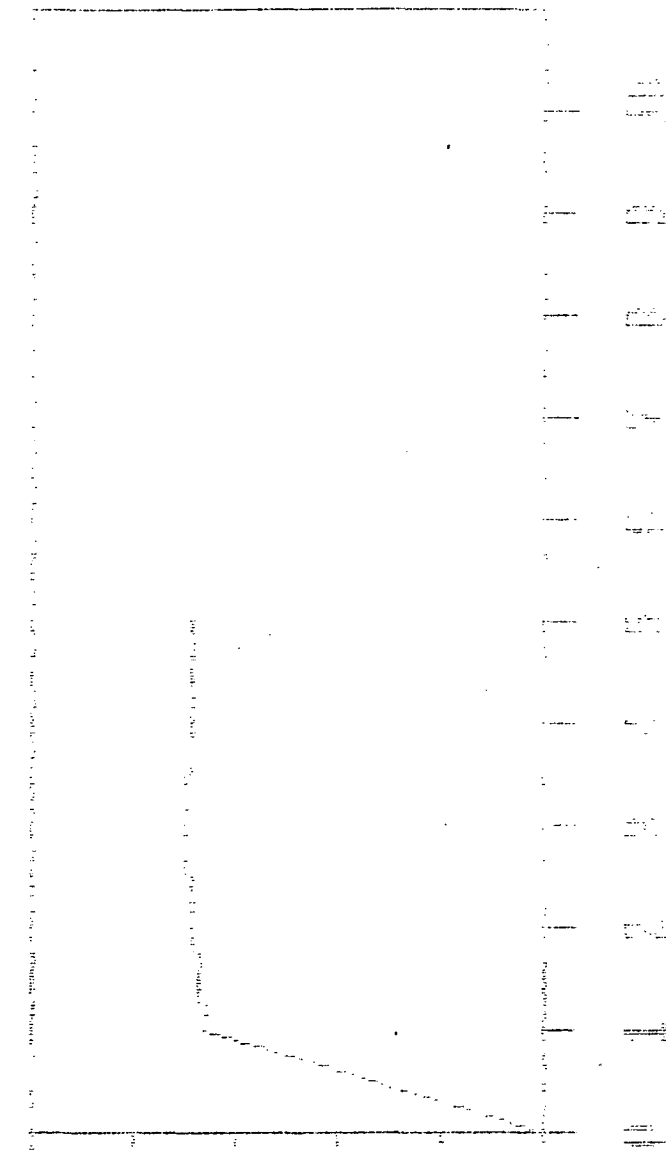
SIMPSON DIVERSITY: .7752346 .9007057
 INVERSE, SIMPSON DOM.: .6124139 16.3413
 SHANNON DIVERSITY: .6278158 2.502580
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .6261036 2.116119
 (MAX. IS IN BASE E)
 PIELOU EVENNESS: .1294444
 GILF EVENNESS: .0004637
 (MAX. IS IN BASE E)

ENTER TO CONTINUE.

RECEIVED



COMPARISON OF THE



PERCENTAGE

TIME