

Appendix II: Preliminary Checklist
- Perdido Key

Appendix III: Statistical Data
- Perdido Key

APPENDIX II

PRELIMINARY CHECKLIST OF PERDIDO KEY MACROINVERTEBRATES

PHYLUM CNIDARIA

Class Hydroza

Order Siphonophora

Family Physalidae

Physalia physalis (Linnaeus, 1758)

Order Thecata

Family Phialuciidae

Lovenella gracilis

On valves of Donax variabilis

Order Athecata

Family Hydractinidae

Hydractinia echinata Fleming, 1828

On hermit crab shells

Class Schyphozoa

Order Semaestomeae

Family Pelagidae

Chrysaora quinquecirrha (Desor, 1848)

Pelagia noctilica (Forsk., 1775).

During October 1987 large numbers of this interesting medusa, which is characterized by being bioluminescent and having nematocysts on surface of the bell, were present at Stations T2 and T3. It was estimated that densities of at least 3 to 5 medusae per cubic meter of water were present in the waters adjacent to these two stations. At Station T2 thousands of medusae were washed up in windrows on the beach.

Family Ulmaridae

Aurelia aurita (Linnaeus, 1758)

PHYLUM CTENOPHORA

Class Tentaculata

Family Mnemiidae

Mnemiopsis mccradyi Mayer, 1900

Class Nuda

Family Beroidae

Beroe ovata Chamisso and Eysenhardt, 1821

PHYLUM ANNELIDA

Class Polychaeta

Order Ariciida

Family Orbinidae

Leitoscolopus fragilis (Verrill, 1873)

Family Chaetopteridae

Chaetopterus variopedatus (Renier, 1804)

Order Capitellida

Family Arenicolidae

Arenicola cristata Stimpson, 1856

Family Capitellidae

Capitella cf. capitata (Fabricius, 1780)

Dasybranchis sp A

Family Maldonidae

Clymenella torquata (Leidy, 1955)

Family Ophelidae

Armandia maculata (Webster, 1884)

Order Eunicida

Family Eunicidae

Marphysa sanguinea (Montagu, 1815)

Order Phyllodocida

Family Glyceridae

Glycera americana

Family Nephtyidae

Nephtys bucera Ehlers, 1868

Family Neriidae

Laeonereis culveri (Webster, 1880)

Neanthes succinea (Frey and Leukart, 1847)

Family Phyllodocidae

Anaitides longiteps (Schmarda, 1861)

Eteone heteropoda Hartman, 1951

Family Hesionidae

Paraesione luteola

Family Sigalionidae

Sthenelais boa (Johnston, 1833)

Order Sabellida

Family Serpulidae

Hydroides dianthus (Verrill, 1873)

Order Spionida

Family Paraonidae

Paraonis fulgens

Family Spionidae

Scoelepis squamata (O.F. Muller, 1806)

Nerine agilis Hartmann, 1945) is a synonym of this species.

Prionspio heterobranchia Moore, 1907

Common in grass beds and T3.

Dispio uncinata Hartman 1951

Polydora websteri Hartman, 1943

Order Terebellida

Family Ampharetidae

Mellina maculata Webster, 1879

Family Terebellidae

Loimia cf. viridis Moore, 1903

Phylum Mollusca

Class Gastropoda

Family Terebridae

Hastula (=Terebra) salleana Deshayes, 1859

Family Olividae

Olivella minuta Link, 1807 (= O. multica Dall

Oliva sayana Rautenfeld, 1834

Family Marginellidae

Prunum apicina Menke, 1828

Family Naticidae

Polinices duplicatus (Say, 1822)

Natica pusilla Say, 1822

Order Neogastropoda

Family Turridae

Pyrgocythara plicosa (C.B. Adams, 1850)

Family Buccinidae

Cantharus cancellarius (Conrad, 1846)

Family Nassariidae

Nassarius vibex (Say, 1822)

Family Columbellidae

Mitrella lunata (Say, 1826)

Family Muricidae

Thais haemostoma floridana Conrad, 1837

Order Mesogastropoda

Family Calyptraeidae

Crepidula convexa

Crepidula fornicata (Linnaeus, 1758)

Crepidula plana Say, 1822

Crepidula maculata

Family Hydrobiidae

Helebops n. sp. A

Family Cerithiidae

Cerithium muscarum
Diastoma varium Pfeiffer, 1840

Family Littorinidae
Littorina irrorata (Say, 1822)

Family Pyramidellidae
Pyramidella cf. crenulata (Holmes, 1859)
Sayella cf. livida (Rehder, 1935)

Order Archeogastropoda
Family Neritidae
Neretina usnea (Roding, 1798)

Order Cephalaspidia
Family Aceteonida
Rictaxis sp A

Class Bivalvia

Order Arcoidea
Family Arcidae
Anadara cf. floridana (Conrad, 1867)
Anadra transversa (Say, 1822)

Order Nuculoidea
Family Pectinidae
Argopecten irradians amplicostatus Dall, 1898

Order Cardititacea
Family Corbiculiidae
Polymesoda caroliniana Bosc, 1830

Order Mytiloidea
Family Mytilidae
Amygdalum papyrium (Conrad, 1846)
Geukensia demissa (Dillwyn, 1817)
Ischadium recurvum (Rafinesque, 1820)
Musculus lateralis

Family Pinnidae
Atrina seminuda (Lamarck, 1819)

Order Pterioidea
Family Ostreidae
Crassostrea virginica (Gmelin, 1791)
Ostrea eaquestrus

Order Heterodontida
Family Mactricidae
Mulinia lateralis (Say, 1822)

Family Solecurtidae
Tagelus plebius (Lightfoot, 1786)

Tagelus devissus (Lightfoot, 1786)

Family Solenidae

Ensis minor Dall, 1895

Family Veneridae

Gemma gemma (Totten, 1834)

Family Crassatellidae

Cuna dalli Vanatta, 1904

Order Hippuritoidea

Family Donacidae

Donax variabilis roemeri Philippi, 1847

Donax texaseanus

Order Pandoracea

Family Lyonsidae

Lyonsia hyalina floridana (Conrad, 1848)

Class Cephalopoda

Order Teuthoidea

Family Loliginidae

Loligo pealei Leseur, 1821

Lolliguncula brevis (Blainville, 1823)

PHYLUM ARTHROPODA

Subphylum Chelicerata

Class Merostomata

Order Xiphosurida

Family Limulidae

Limulus polyphemus (Linnaeus, 1758)

Subphylum Mandibulata

Class Crustacea

Order Stomatopoda

Family Lysoquillidae

Coronis excavatrix Brooks, 1886

Order Mysidacea

Family Mysidae

Bowmaniella floridana Holmquist, 1975

Metamysidopsis swifti Bacescu, 1969

Mysidopsis bahia Molenock, 1969

Taphromysis bowmani Bacescu, 1961

Pseudomma heardi Stuck, 1981

Collected by EPA personnel during late spring 1986.

Order Cumacea

Family Bodotriidae

Spilocuma salomani Watling, 1975

Spilocuma watlingi Omholt & Heard, 1978

Cyclaspis pustulata Zimmer, 1943

Cyclospis sp A
Cyclaspis varians Calman, 1912

Family Diastylidae
Oxyurostyli smithi Calman, 1912

Order Tanaidacea

Family Kalliapseudidae
Kalliapseudes sp A

Family Leptochelidae
Hargeria rapax (Harger, 1879)
Leptochelia sp. (new?)

Order Isopoda

Family Sphaeromatidae
Ansinus depressus (Say, 1818)
Cymodoce faxoni (Richardson, 1904)
Exosphaeroma diminuta Menzies and Frankenberg, 1965

Family Idoteidae
Chirodote excavata Harper, 1974
Erichsonnella attenuata (Harger, 1873)
Synidotea sp. (new?)

Family Bopyridae
Pseudione n. sp. (gill chamber parasite of
Callichirus islegrande)
Bopyrina abbreviata
Chamber of Hippolyte zostericola
Bopyrissa wolffi Markham
In gill chamber of Clibanarius vittatus.

Family Oniscidae
Scyphacella arenicola (Smith, 1873)

Order Amphipoda

Family Ampeliscidae
Ampleisca holmesi Pearse, 1912
Ampelisca vadorum Mills, 1964

Family Ampithoidae
Ampithoie valida Smith, 1873
Ampithoe longimana Smith, 1873
Cymadusa compta (Smith, 1973)

Family Aoridae
Lembos sp.
Grandidierella bonnieroides Stephensen, 1948

Family Atylidae
Atylus urocarinatus McKinney, 1980

Family Bateidae
Batea catharinensis Muller, 1865

Family Corophiidae

Erichthonius brasiliensis Dana, 1855

Corophium ascherusicum Costa, 1857

Family Synopiidae

Tiron triocellatus Goeke, 1982

Family Oedicerotidae

Synchelidium americanum Bousfield, 1973

Family Isaeidae

Microprotopus raneyi Wigley, 1966

Family Gammaridae

Gammarus mucronatus Say, 1818

Elasmopus levis Smith, 1873

Family Haustoriidae

Haustorius sp A

Parahaustorius sp A

Lepidactylus sp A

Acanthohaustoris sp A

Family Hyalidae

Hyale sp A

Family Ischyroceridae

Cerapus cf. tubularis Say, 1818

Family Liljeborgiidae

Listriella barnardi Wigley, 1963

Family Melitidae

Melita intermedia Sheridan, 1978

Family Phoxocephalidae

Metharpinia floridana (Shoemaker, 1933)

Family Talitridae

Platorchestie platensis Kroyer, 1845

Talorchestia sp A

Suborder Capprellidea

Family Capprellidae

Paracapprella tenuis Mayer, 1903

Order Decapoda

Suborder Dendrobranchiata

Infraorder Penaeidea

Family Penaeidae

Penaeus aztecus Ives, 1891

Penaeus duorarum Burkenroad, 1939

Penaeus setiferus (Linnaeus, 1776)

Family Luciferidae
Lucifer faxoni

Family Sergestidae
Acetes americana Burkenroad, 1934

Suborder Pleocyemata
Infraorder Caridea

Family Hippolytidae
Lysmata wurdemani (Gibbs, 1850)
Tozeuma caroliniense Kingsley, 1878
Hippolyte zostericola (Smith, 1873)
Latreutes parvulus (Stimpson, 1866)
Latreutes fucorum Fabricus, 1798
On Sargassum.

Family Palaemonidae
Palaemonetes pugio Holthius, 1949
Palaemonetes vulgaris (Say, 1818)
Palaemonetes intermedius Holthuis, 1949
Pereclimenes longicaudatus (Stimpson, 1860)
Leander tenuicornis (Say, 1818)
On Sargassum.

Family Alpheidae
Alpheus heterochaelis Say, 1818
Alpheus normanni Kingsley, 1878

Family Ogyrididae
Ogyrides alphaerostris (Kingsley, 1880)
Ogyrides hayi Williams, 1981

Family Pasiphaeidae
Leptochela serratorbita Bate 1888

Family Processidae
Ambidexter symetrica Manning and Chase, 1971
Processa hemphilli Manning and Chase, 1971

Infraorder Anomura

Family Callianassidae
Callichirus islagrande Schmitt, 1935
Callichirus major Say, 1818
Callianassa jamaicense Schmitt, 1935
Callianassa triloba Biffar, 1971

Family Upogebiidae
Upogebia affinis (Say, 1818)

Family Porcellanidae
Porcellana sayana (Leach, 1820)
Eucramus praelongus Stimpson, 1858

Family Albunidae

Albunea paretii Guerin-Meneville, 1853

Lepidopoa benedicti Schmitt, 1935

Lepidopa websteri Benedict 1850

Family Hippidae

Emerita talpoida Say, 1817

Emerita benedicti Schmitt, 1935

Family Paguridae

Pagurus pollicaris Say, 1817

Pagurus longicarpus Say, 1817

Pagurus maclaughlinae Latrielle, 1981

Family Diogenidae

Isocheles wurdemanni Stimpson, 1862

Clibinarius vittatus (Bosc, 1802)

Infraorder Brachyura

Family Parthenopidae

Heterocrypta granulata (Gibbes 1850)

Family Portunidae

Arenaeus cribrarius (Lamark, 1818)

Ovalipes floridanus Hay and Shore, 1918

Callinectes similis Williams, 1966

Callinectes sapidus Rathbun, 1896

Portunus gibbesii (Stimpson, 1859)

Portunus spinimanous Latreille, 1819

Family Pinnotheridae

Dissodactylus mellitae Rathbun, 1900

Pinnixa chacei Wass, 1955

Pinnixa chaetopterana (Stimpson, 1860)

Pinnixa n. sp? (floridana complex)

Family Ocypodidae

Ocypode quadrata Fabricius, 1787

Uca panacea Novack and Salmon, 1974

Uca longisignalis Salmon and Atsides, 1968

Family Majidae

Libinia dubia H. Milne-Edwards, 1834

Libinia emarginata Leach, 1815

Pelia mutica

Family Xanthidae

Mennipe adina Williams and Felder, 1986

Eurypanopeus depressus (Smith, 1869)

Panopeus stimpsoni Rathbun, 1900

Panopeus turgidus Rathbun, 1931

Dyspanopeus taxana (Smith)

Phylum Echinodermata

Class Holothuroidea
Family Synaptidae
Leptosynapta crassipatina Clark, 1924

Class Echinoidea
Family Scuttelidae
Mellita quinquiesperforata (Leske, 1778)

Class Opiuroidea
Family Amphiuridae
Ophiophragmus moorei Thomas, 1965
Ophiophragmus filograneus (Lyman, 1875)

Family Ophiactidae
Hemipholis elongata (Say, 1825)

PHYLUM HEMICHORDATA

Class Enteropneusta
Balanoglossus sp. (= aurantiacus)

PHYLUM CHORDATA

Class Cephalochordata
Order Amphioxi
Family Branchiostomatidae
Branchiostoma cf. floridae Hubbs, 1922

Class Acidacea
Order Pleurogona
Family Styelidae
Styela plicata (Leseuer, 1825)

PERDIDO KEY STATION T1

SWASH ZONE

BOX CORER - INFAUNAL

CODE: PK10C86.SWA PERDIDO KEY STA. 1 SWASH 8 OCTOBER 1986

NUM	SAMP	CUM S	CUM Hk
1	4	4	0.79
2	2	6	0.85
3	3	8	1.39
4	1	8	1.51

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	11
2	Emerita talpoida	7
3	Scoelelepis squamata	5
4	Metamysidopsis swifti	4
5	Donax variabilis	2
6	Leptochela sp	2
7	Bowmaniella floridana	1
8	Leitoscoloplos fragilis	1

TOTAL = 33

ENTER TO CONTINUE?

ESTIMATES

H' = 2.052524
var (H') = .0161198
J' = .9870553
var (J') = 3.727917E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 8
NO. OF INDIVIDUALS = 33
MARGALEF DIVERSITY: 4.60977
MENHINICK DIVERSITY: 1.392621
SIMPSON DOMINANCE: .1780303
SIMPSON DIVERSITY: .8219697
INVERSE, SIMPSON DIV.: 5.617022
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2029385
SIMPSON DIV.: .7970615
INVERSE OF DOMINANCE: 4.927602
SHANNON DIVERSITY*:
.7767497 1.788533 2.580307
BRILLOUIN DIVERSITY*:
.6537468 1.505308 2.1717
*BASE 10, BASE E, BASE 2

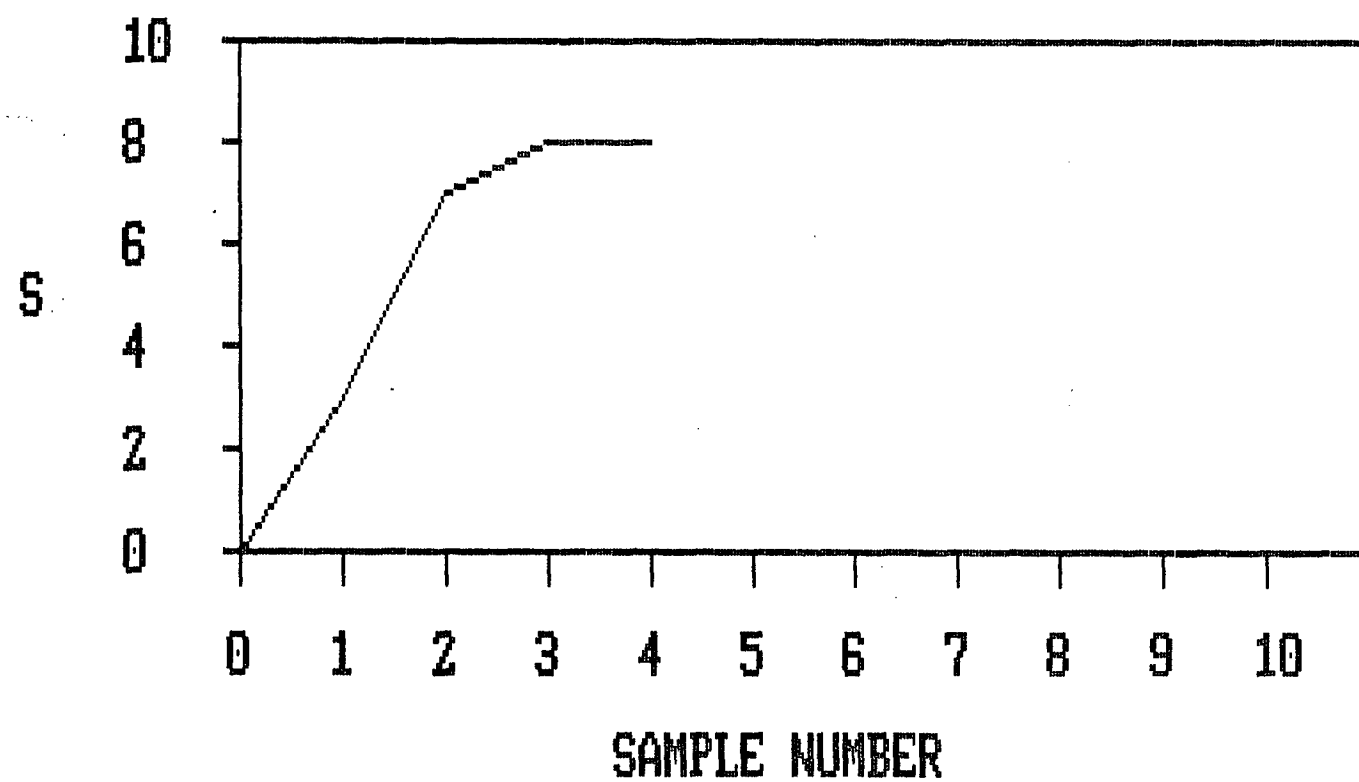
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

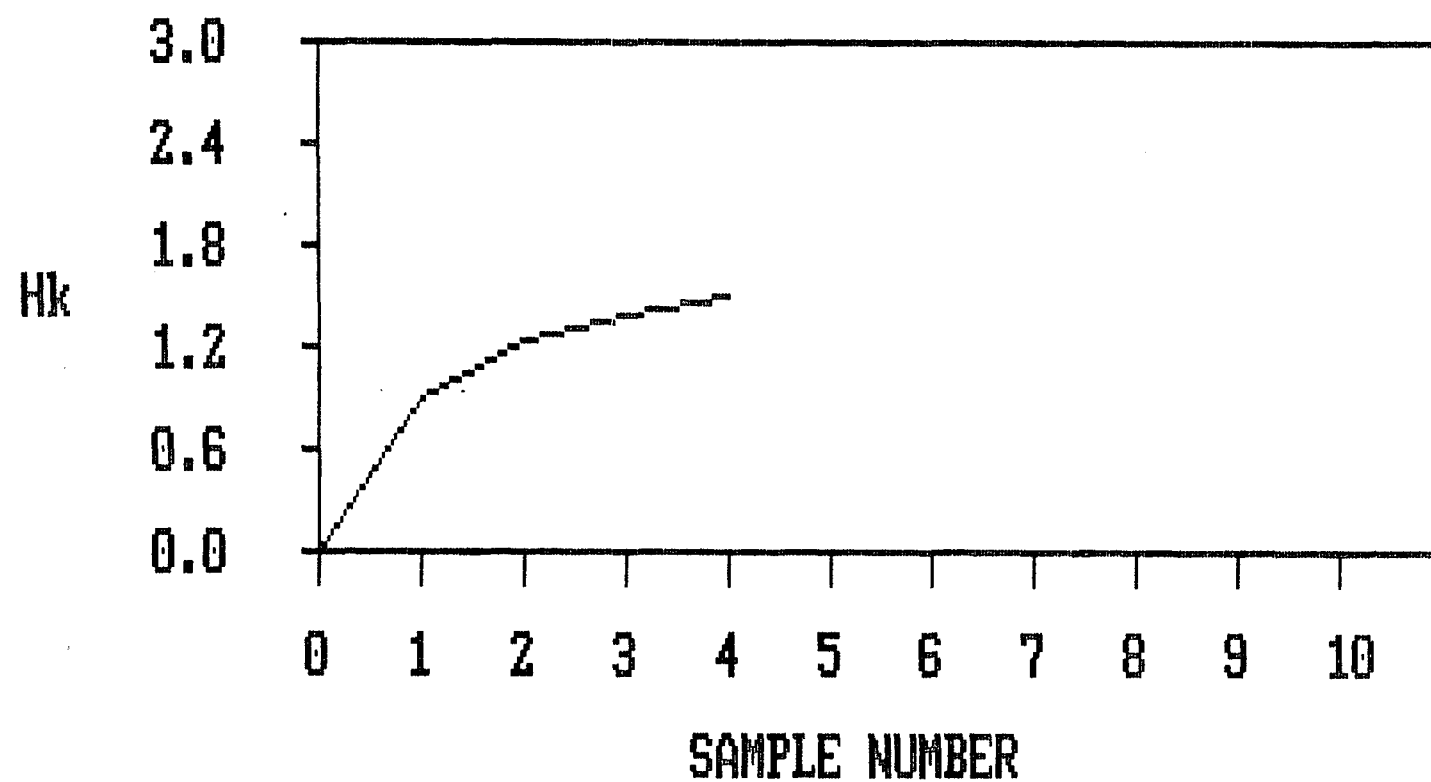
SIMPSON DIVERSITY: .9109275 .9023438
INVERSE, SIMPSON DOM.: .5485373 10.24
SHANNON DIVERSITY: .8601023 2.079442
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .8358761 1.800874
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7475837
HEIP EVENNESS: .7115242
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1AP87.SWA PERDIDO KEY STA.1 SWASH 10 APRIL 1987

NUM	SAMP	CUM S	CUM Hk
1	4	3	0.54
2	2	3	0.39
3	1	3	0.39
4	3	3	0.42

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scoelelepis squamata	44
2	Emerita talpoida	5
3	Haustorius sp A	2

TOTAL = 51

ENTER TO CONTINUE?

ESTIMATES

H' = .3757608
var (H') = 9.544482E-03
J' = .3420322
var (J') = 7.907941E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 51
MARGALEF DIVERSITY: 1.171255
MENHINICK DIVERSITY: .420084
SIMPSON DOMINANCE: .7505882
SIMPSON DIVERSITY: .2494118
INVERSE, SIMPSON DIV.: 1.332288
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .7554787
SIMPSON DIV.: .2445213
INVERSE OF DOMINANCE: 1.323664
SHANNON DIVERSITY*:
.2093577 .482064 .6954714
BRILLOUIN DIVERSITY*:
.1840359 .4237584 .6113542
*BASE 10, BASE E, BASE 2

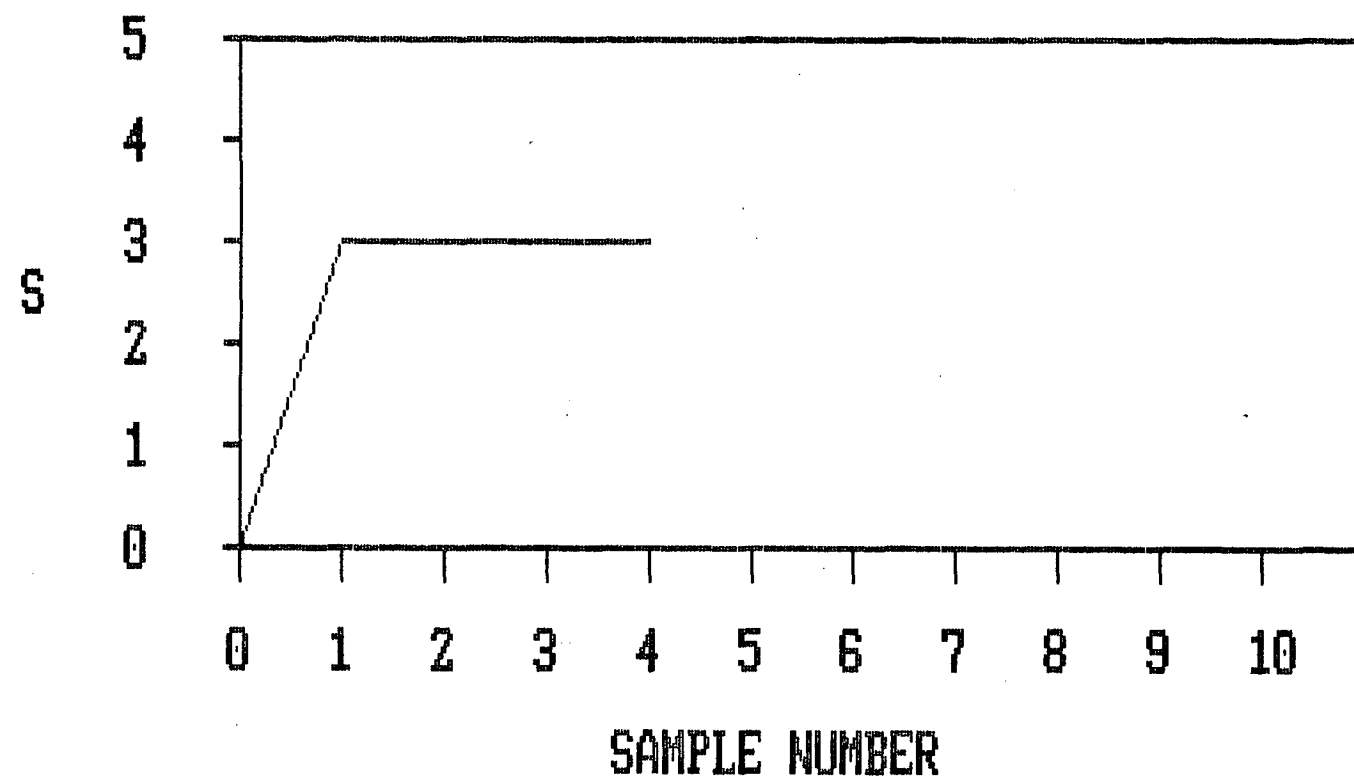
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

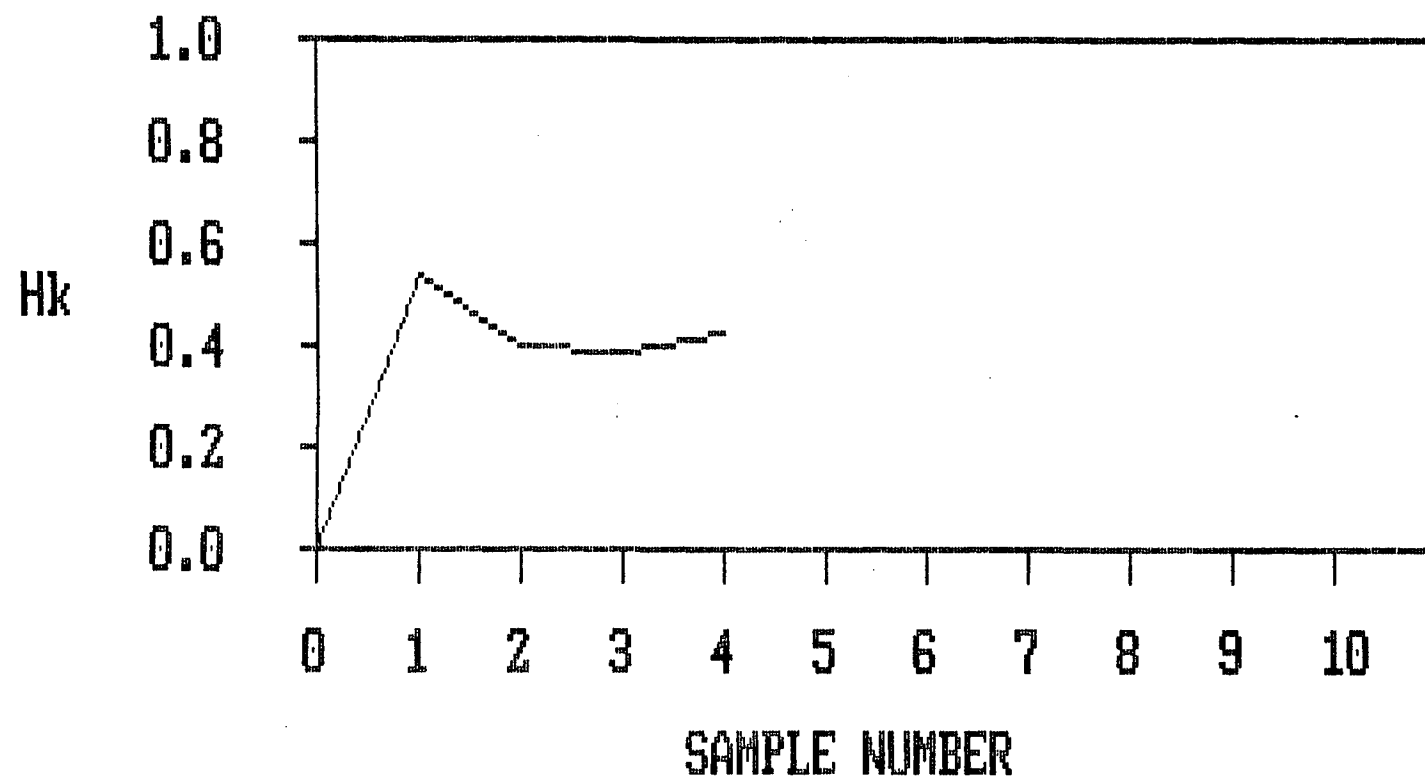
SIMPSON DIVERSITY: .366782 .68
INVERSE, SIMPSON DOM.: .4263323 3.125
SHANNON DIVERSITY: .4387936 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4164553 1.017536
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5398045
HEIP EVENNESS: .3097068
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1JL87.SWA PERDIDO KEY STA. T1 SWASH 23 JULY 1987

NUM	SAMP	CUM S	CUM Hk
1	4	4	0.55
2	3	5	0.87
3	1	5	0.76
4	2	5	0.84

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Donax variabilis	45
2	Metamysidopsis swifti	8
3	Scolecopsis squamata	6
4	Emerita talpoida	3
5	Bowmaniella floridana	1
TOTAL =		63

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.05149
var (H')	=	.1871555
J'	=	.6533275
var (J')	=	.0722527
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 63
MARGALEF DIVERSITY: 2.223037
MENHINICK DIVERSITY: .6299408
SIMPSON DOMINANCE: .530466
SIMPSON DIVERSITY: .469534
INVERSE, SIMPSON DIV.: 1.885135
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5379189
SIMPSON DIV.: .4620811
INVERSE OF DOMINANCE: 1.859016
SHANNON DIVERSITY*:
.4069666 .9370752 1.351914
BRILLOUIN DIVERSITY*:
.3647367 .8398372 1.211629
*BASE 10, BASE E, BASE 2

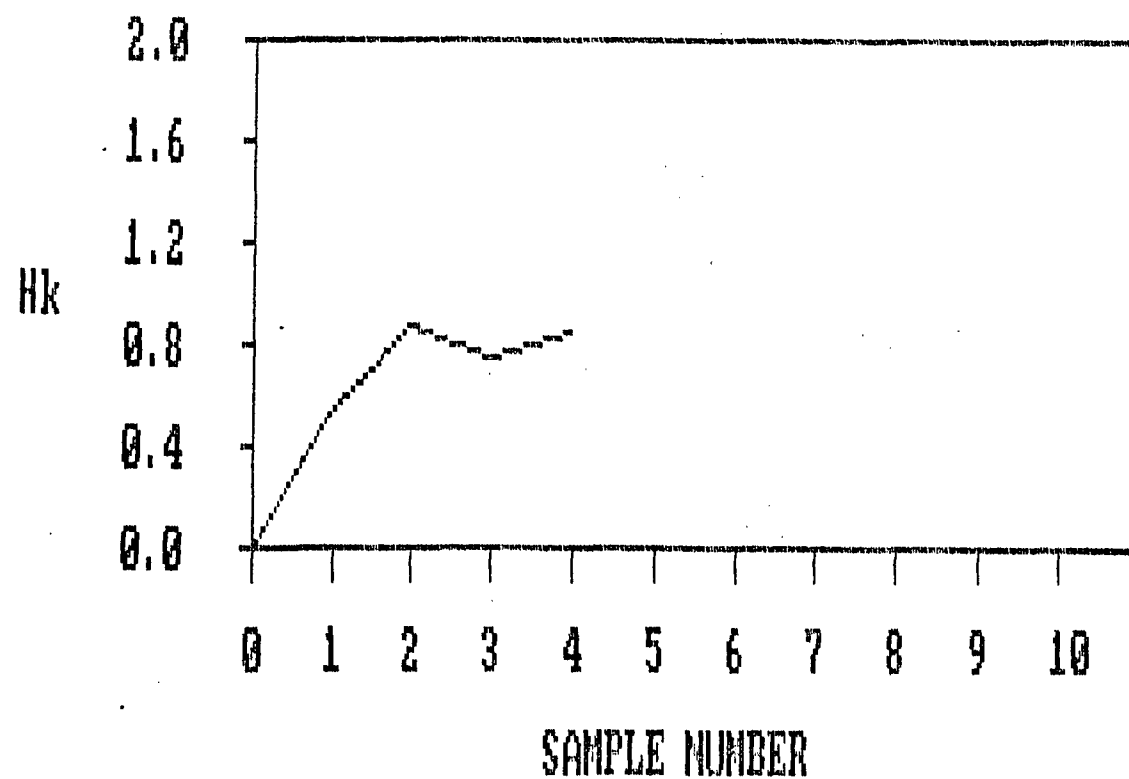
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

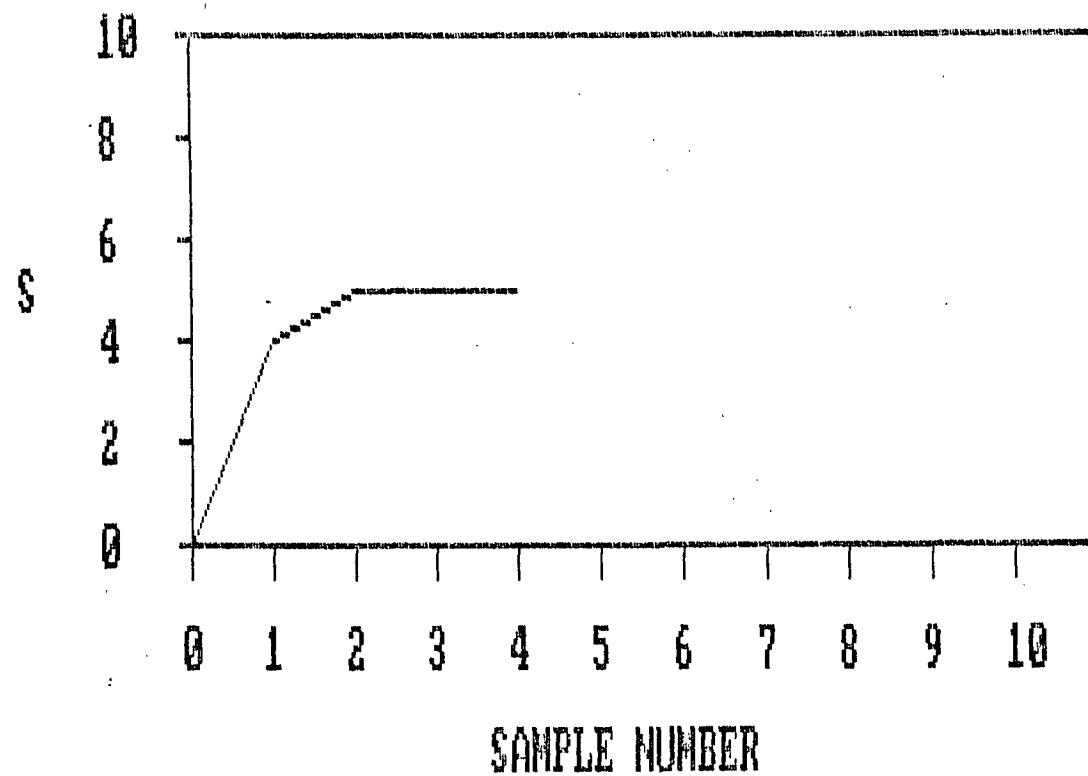
SIMPSON DIVERSITY: .5776014 .8129032
INVERSE, SIMPSON DOM.: .3527027 5.344828
SHANNON DIVERSITY: .5822375 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5315733 1.579909
(MAX. IS IN BASE E)
SHELDON EVENNESS: .510501
HEIP EVENNESS: .3881262
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



NUM	SAMP	CUM S	CUM HK
---	---	---	---
1	3	1	0.00
2	1	3	0.59
3	2	3	0.53
4	4	3	0.47

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
---	---	---
1	Emerita talpoida	25
2	Donax variabilis	3
3	Haustorius sp A	2

TOTAL =		30

ENTER TO CONTINUE?

ESTIMATES

H'	=	.3418768
var (H')	=	2.090006E-02
J'	=	.3112079
var (J')	=	1.731644E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 30
MARGALEF DIVERSITY: 1.353985
MENHINICK DIVERSITY: .5477225
SIMPSON DOMINANCE: .6988506
SIMPSON DIVERSITY: .3011494
INVERSE, SIMPSON DIV.: 1.430921
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .7088889
SIMPSON DIV.: .2911111
INVERSE OF DOMINANCE: 1.410658
SHANNON DIVERSITY*:
.2443905 .5627299 .8118476
BRILLOUIN DIVERSITY*:
.2051277 .4723241 .6814196
*BASE 10, BASE E, BASE 2

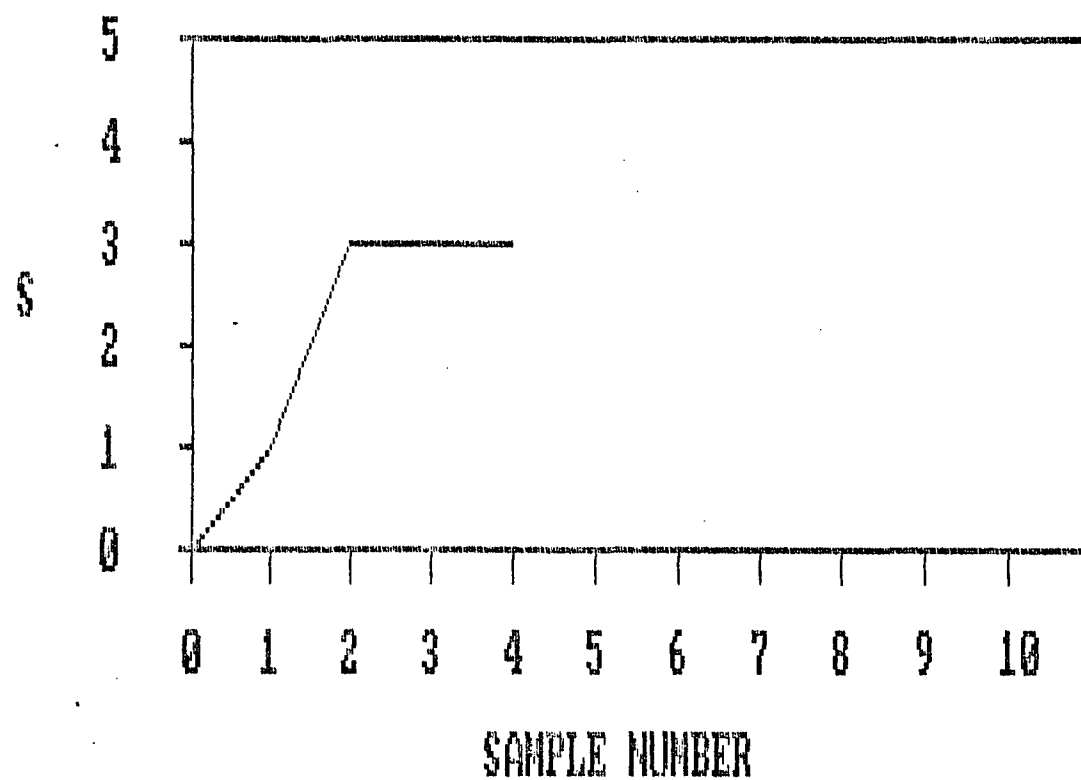
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

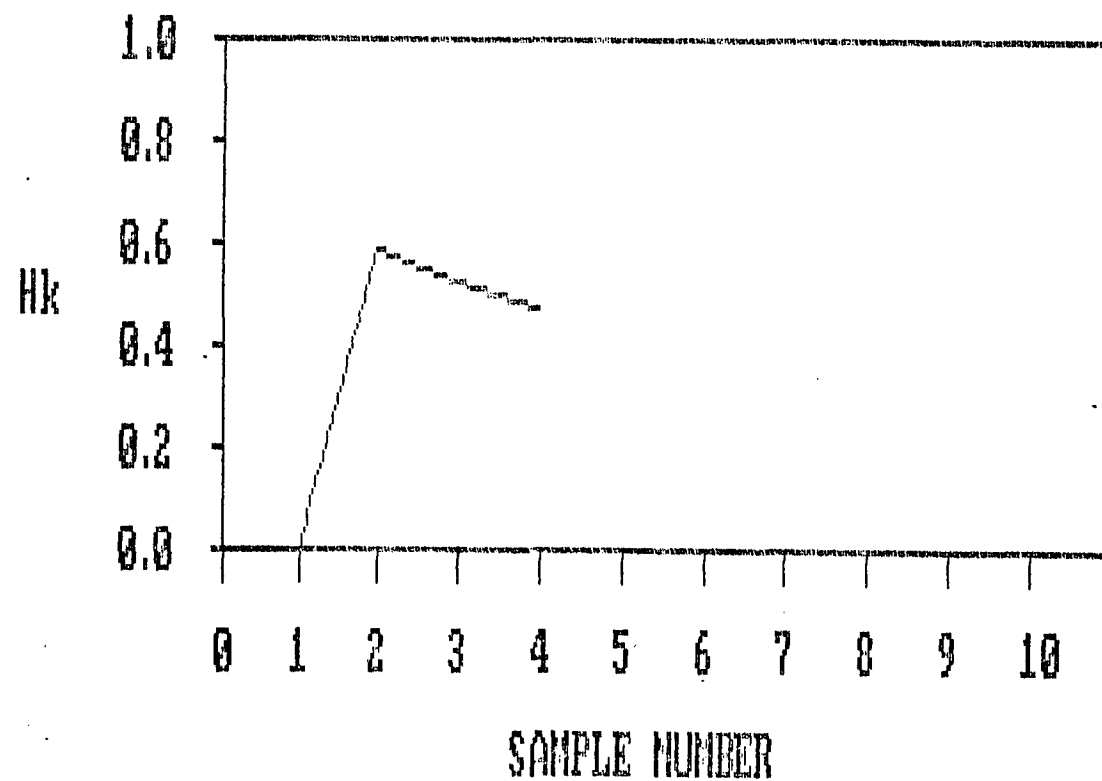
SIMPSON DIVERSITY: .4366667 .6896552
INVERSE, SIMPSON DOM.: .444079 3.222222
SHANNON DIVERSITY: .5122188 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4828667 .9781666
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5851527
HEIP EVENNESS: .3777291
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PKLAP88.SWA PERDIDO KEY STA. T1 SWASH 26 APRIL 1988

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	2	5	0.85
2	1	5	1.17
3	3	5	0.99
4	4	5	0.90

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scolecopsis squamata	44
2	Haustorius sp A	12
3	Emerita talpoida	8
4	Donax variabilis	7
5	Spilocuma salemani	1

TOTAL =		92

ENTER TO CONTINUE?

ESTIMATES

H ² =	.9019796
var (H ²) =	.0672944
J ² =	.3604814
var (J ²) =	2.597948E-02
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 92
MARGALEF DIVERSITY: 2.03688
MENHINICK DIVERSITY: .521286
SIMPSON DOMINANCE: .5090779
SIMPSON DIVERSITY: .4909221
INVERSE, SIMPSON DIV.: 1.964336
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .514414
SIMPSON DIV.: .485586
INVERSE OF DOMINANCE: 1.943959
SHANNON DIVERSITY*:
.4237216 .975655 1.407573
BRILLOUIN DIVERSITY*:
.3913378 .9010887 1.299996
*BASE 10, BASE E, BASE 2

ENTER TO CONTINUE?

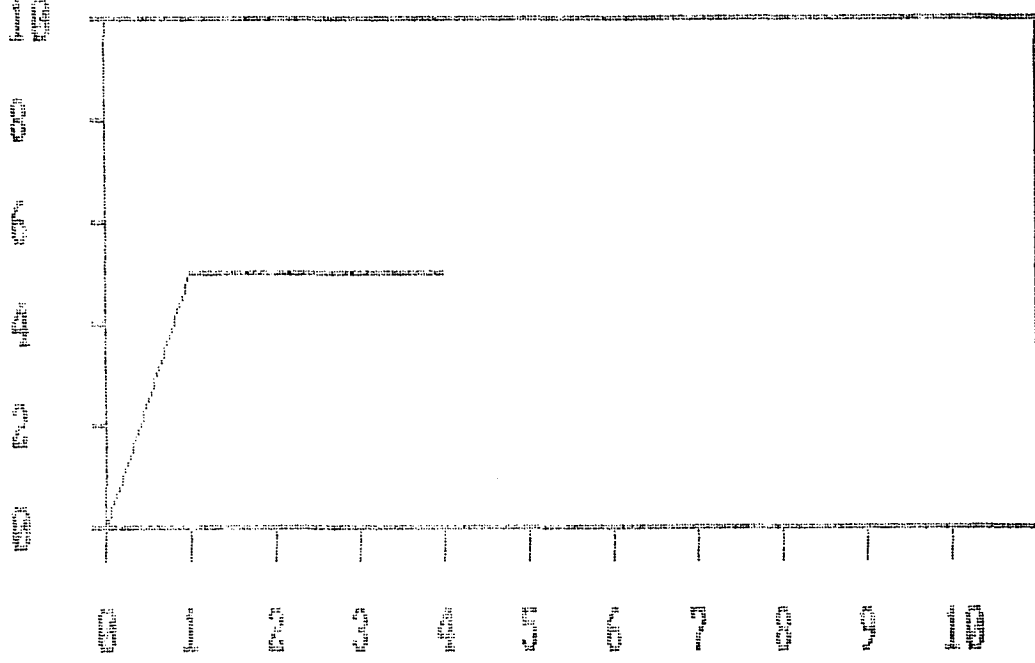
EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .6069825 .3087912
INVERSE, SIMPSON DOM.: .3755983 5.229885
SHANNON DIVERSITY: .6062035 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5755745 1.565547
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5305808
HEIP EVENNESS: .413226
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CHARACTERISTICS OF THE

CHARACTERISTICS OF THE

CHARACTERISTICS OF THE



CHARACTERISTICS OF THE

CODE: PK1JL88.SWA

PERDIDO KEY

TRANSECT 1

SWASH ZONE

27 JULY 1

NUM	SAMP	CUM S	CUM Hk
1	1	6	0.78
2	3	6	0.61
3	2	7	0.82
4	4	7	0.76

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Emerita talpoida	145
2	Haustorius sp A	18
3	Scoelelepis squamata	10
4	Donax variabilis	5
5	Lepidopa benedicti	3
6	Parahaustorius sp A	2
7	Spilocuma salomani	1

TOTAL = 184

ENTER TO CONTINUE?

ESTIMATES

H' =	.85676
var (H') =	.1338506
J' =	.4402875
var (J') =	.0353488
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 7
NO. OF INDIVIDUALS = 184
MARGALEF DIVERSITY: 2.64922
MENHINICK DIVERSITY: .5160468
SIMPSON DOMINANCE: .6326919
SIMPSON DIVERSITY: .3673081
INVERSE, SIMPSON DIV.: 1.580548
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6346881
SIMPSON DIV.: .3653119
INVERSE OF DOMINANCE: 1.575577
SHANNON DIVERSITY*:
.3543746 .8159777 1.177207
BRILLOUIN DIVERSITY*:
.3310745 .7623271 1.099806
*BASE 10, BASE E, BASE 2

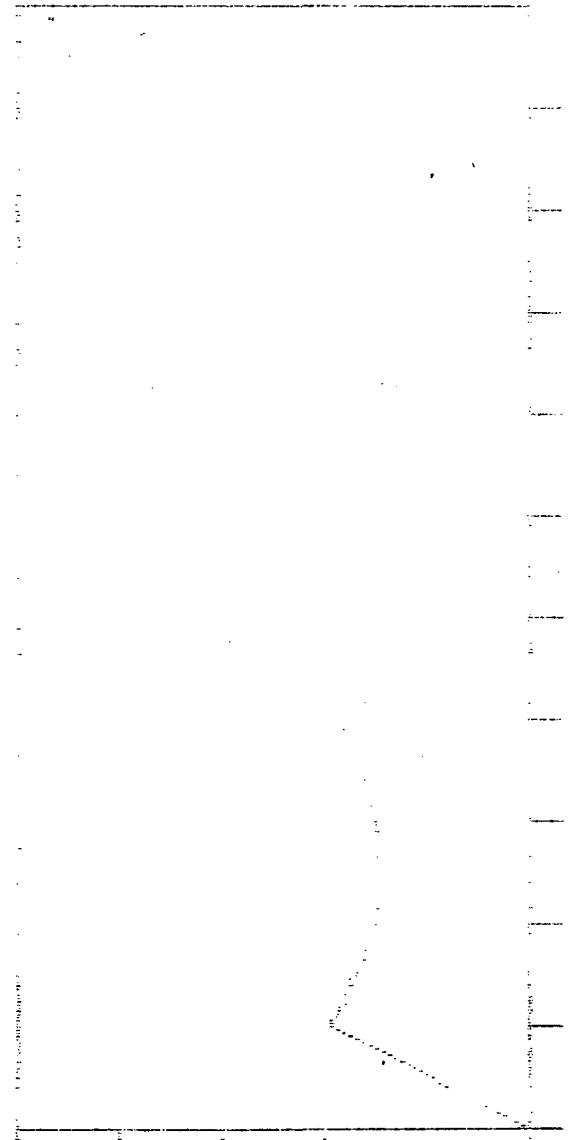
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .4261972 .8618267
INVERSE, SIMPSON DOM.: .2183896 7.237289
SHANNON DIVERSITY: .4193296 1.94591
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .401568 1.898376
(MAX. IS IN BASE E)
SHELDON EVENNESS: .3230551
HEIP EVENNESS: .2102309
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

1000
900
800
700
600
500
400
300
200
100
0



1000
900
800
700
600
500
400
300
200
100
0

1000
900
800
700
600
500
400
300
200
100
0

1000
900
800
700
600
500
400
300
200
100
0

PERDIDO KEY STATION T1

15 M FROM SHORE

BOX CORER - INFAUNAL

CODE: PK10C86.15M PERDIDO KEY STA. 1 15M 8 OCTOBER 1986

NUM	SAMP	CUM S	CUM Hk
1	3	3	0.60
2	2	6	0.96
3	4	8	1.33
4	1	9	1.45

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Emerita talpoida	7
2	Bowmaniella floridana	6
3	Lepidopa benedicti	2
4	Haustorius sp A	2
5	unid nemertean	1
6	Donax variabilis	1
7	Scolecopsis squamata	1
8	Ancinus depressus	1
9	Metamysidopsis swifti	1

TOTAL = 22

ENTER TO CONTINUE?

ESTIMATES

H' =	1.757219
var (H') =	.1210874
J' =	.799745
var (J') =	.0250813
N =	3

NUMBER OF SPECIES = 9
NO. OF INDIVIDUALS = 22
MARGALEF DIVERSITY: 5.959375
MENHINICK DIVERSITY: 1.918806
SIMPSON DOMINANCE: .1645022
SIMPSON DIVERSITY: .8354979
INVERSE, SIMPSON DIV.: 6.078948
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2024793
SIMPSON DIV.: .7975206
INVERSE OF DOMINANCE: 4.938776
SHANNON DIVERSITY*:
.806572 1.857201 2.679374
BRILLOUIN DIVERSITY*:
.6313156 1.453658 2.097185
*BASE 10, BASE E, BASE 2

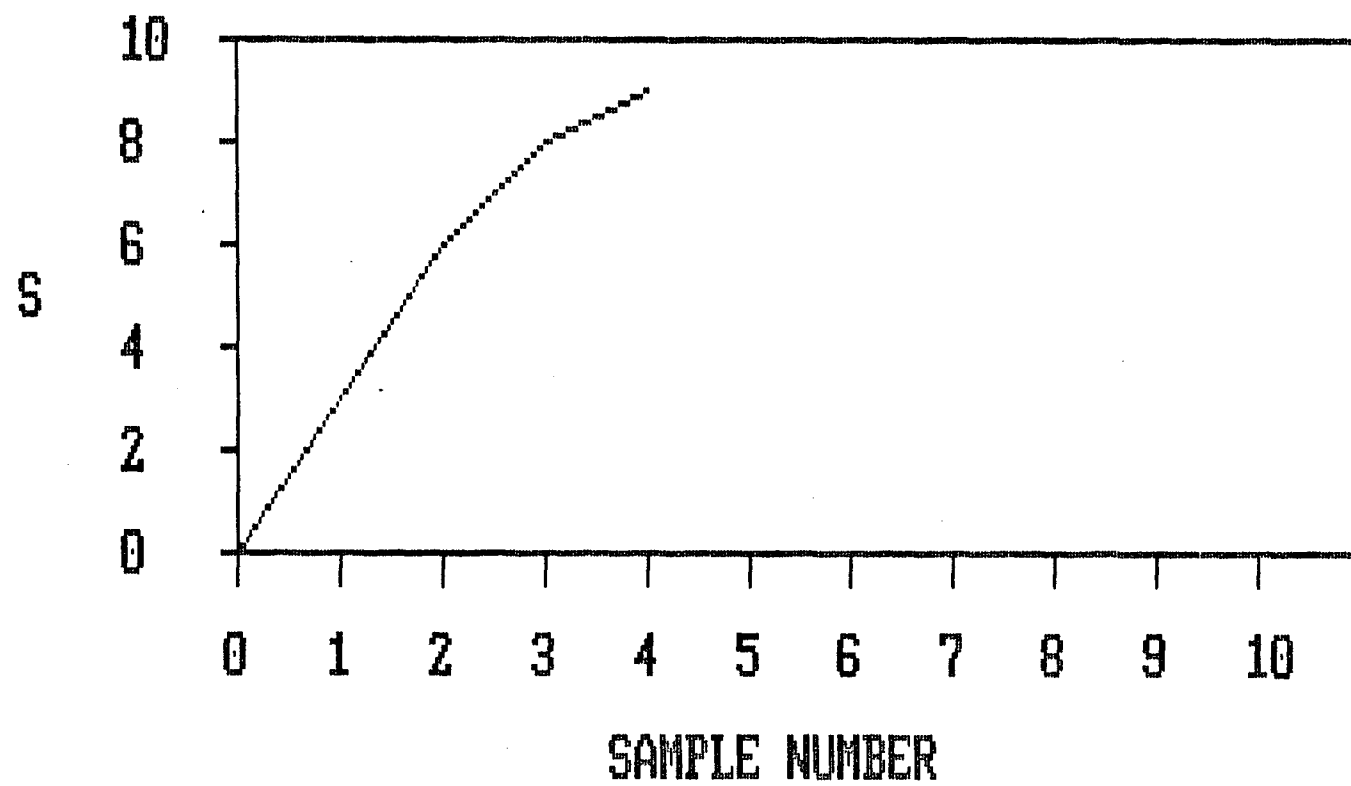
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

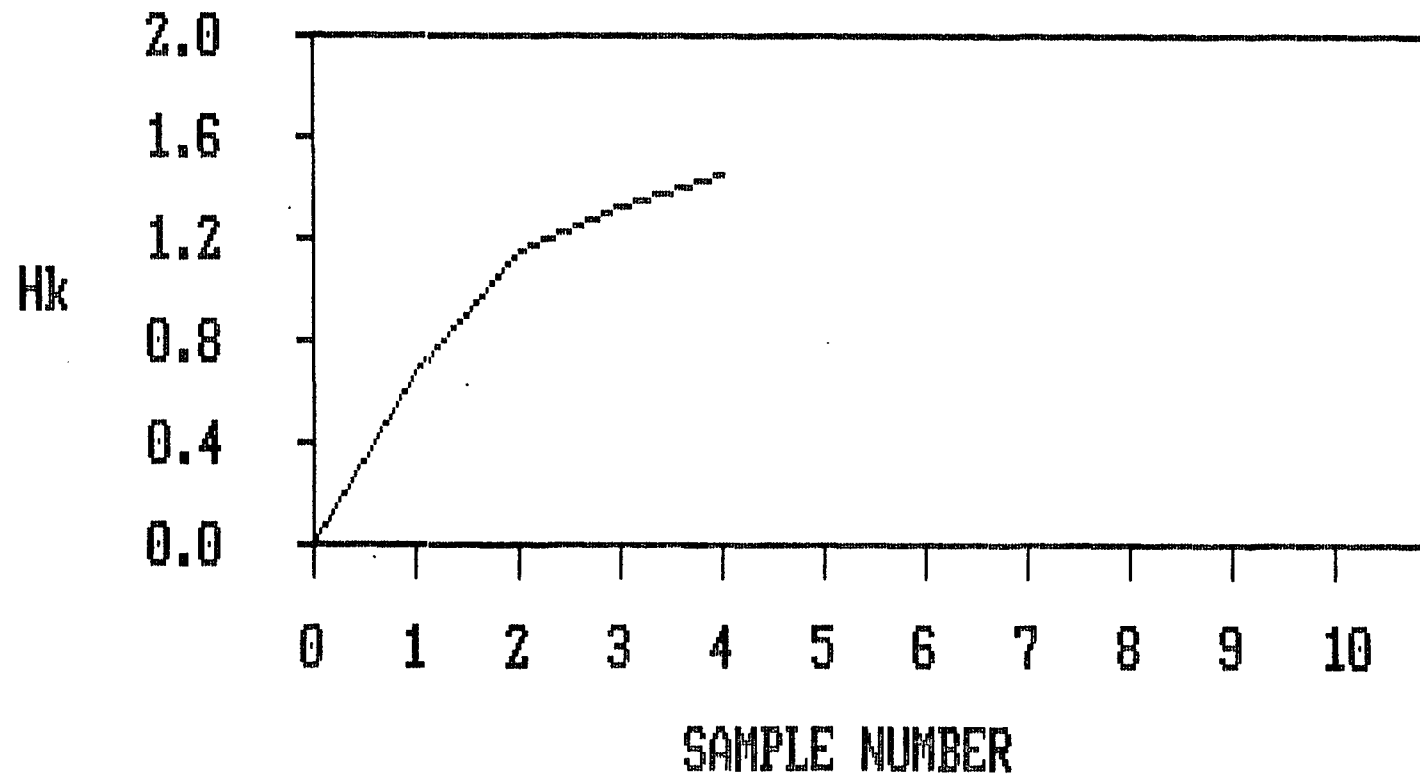
SIMPSON DIVERSITY: .8972108 .9312169
INVERSE, SIMPSON DOM.: .4181287 14.53846
SHANNON DIVERSITY: .8452485 2.197225
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7660987 1.897481
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7117533
HEIP EVENNESS: .6757225
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1AP87.15M PERDIDO KEY STA.1 15M 10 APRIL 1987

NUM	SAMP	CUM S	CUM Hk
1	3	4	0.82
2	1	5	1.02
3	4	5	1.01
4	2	5	1.08

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scoelelepis squamata	4
2	unid nemertean	3
3	Haustorius sp A	2
4	Emerita talpoida	1
5	Paraonis fulgens	1

TOTAL = 11

ENTER TO CONTINUE?

ESTIMATES

H' = 1.247658
var (H') = 2.444426E-02
J' = .7752134
var (J') = 9.43688E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 5
NO. OF INDIVIDUALS = 11
MARGALEF DIVERSITY: 3.84101
MENHINICK DIVERSITY: 1.507557
SIMPSON DOMINANCE: .1818182
SIMPSON DIVERSITY: .8181818
INVERSE, SIMPSON DIV.: 5.5
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2561984
SIMPSON DIV.: .7438017
INVERSE OF DOMINANCE: 3.903226
SHANNON DIVERSITY*:
.6376051 1.46814 2.118078
BRILLOUIN DIVERSITY*:
.467433 1.076304 1.552779
*BASE 10, BASE E, BASE 2

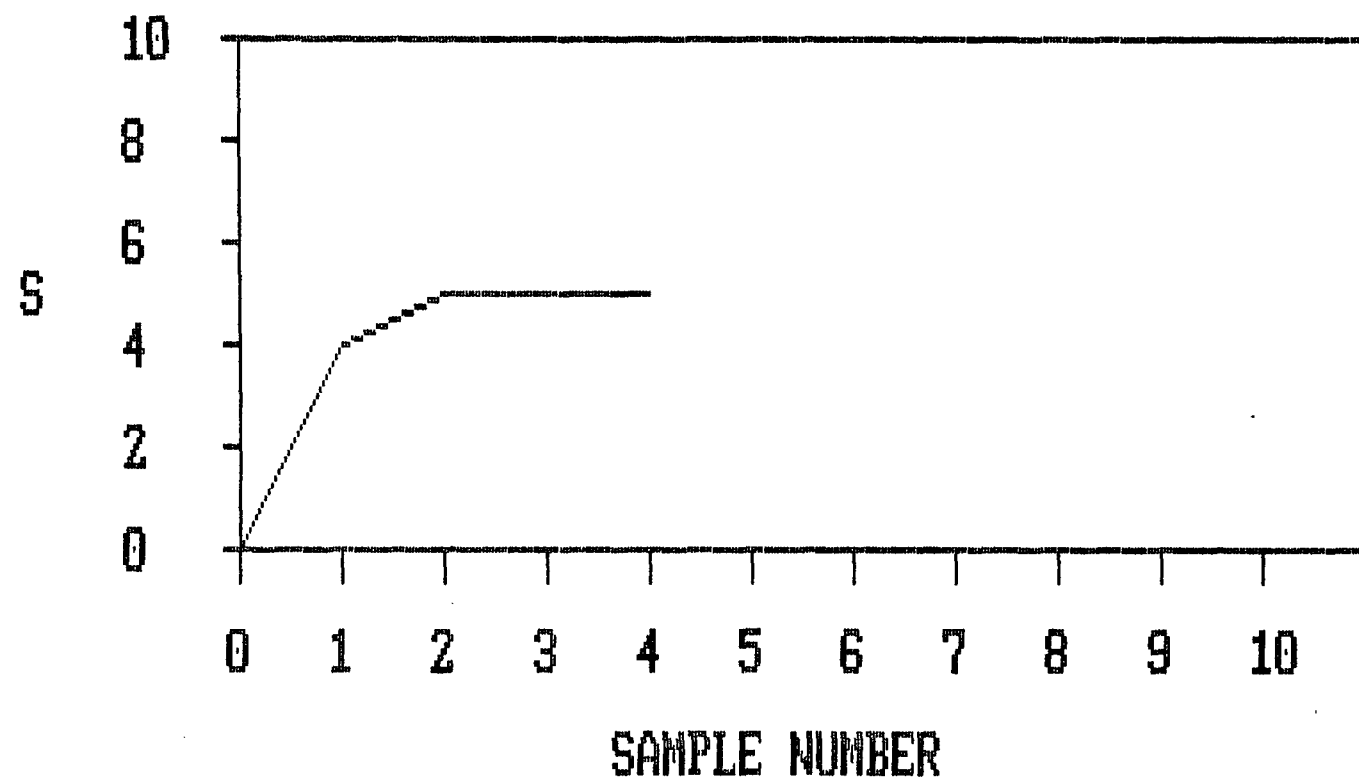
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

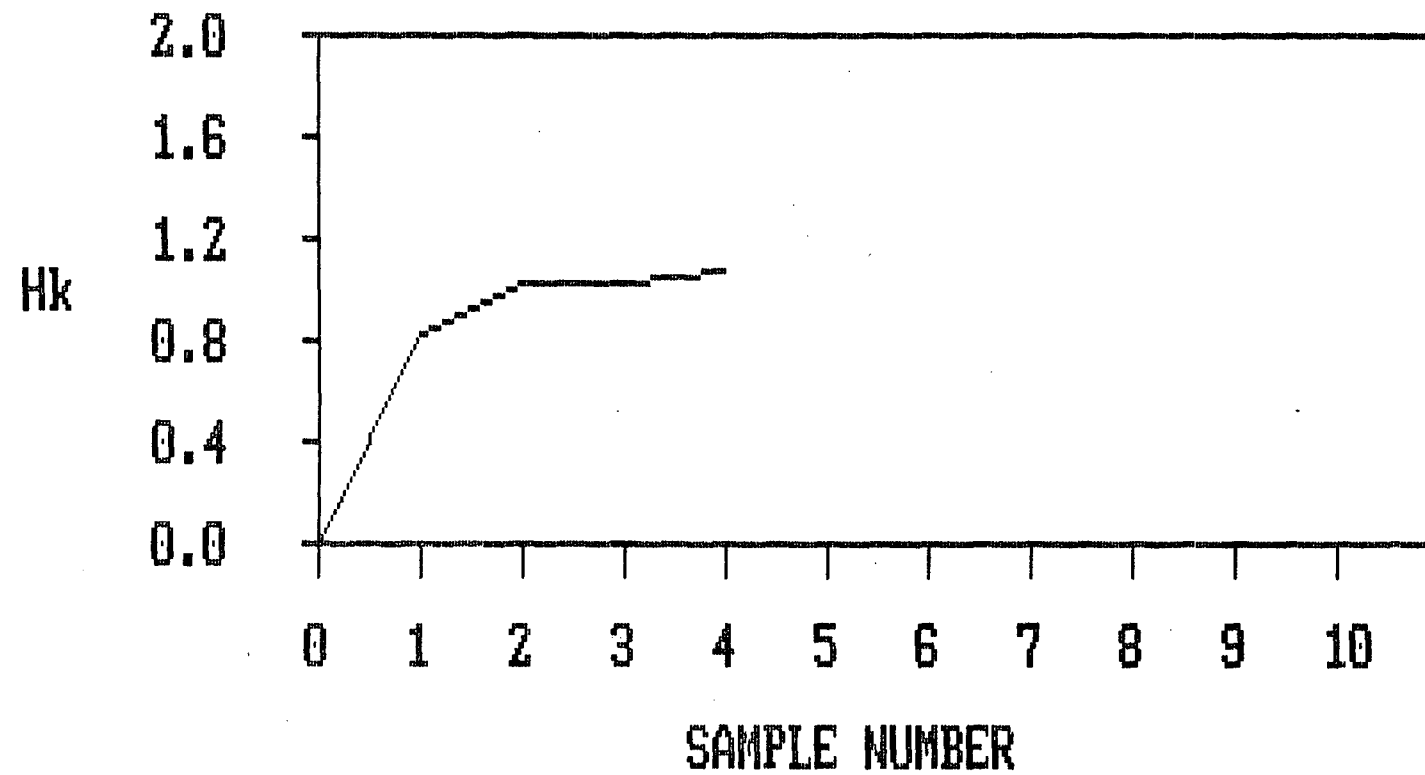
SIMPSON DIVERSITY: .9297521 .88
INVERSE, SIMPSON DOM.: .66 8.333333
SHANNON DIVERSITY: .9122067 1.609438
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .8568775 1.256077
(MAX. IS IN BASE E)
SHELDON EVENNESS: .8682305
HEIP EVENNESS: .8352882
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1JL87.15M PERDIDO KEY STA. T1 15M 23 JULY 1987

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	3	3	0.67
2	1	4	0.78
3	4	5	0.82
4	2	6	0.93

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	20
2	Ancinus depressus	12
3	Leitoscoloplos fragilis	1
4	Emerita talpoida	1
5	Bowmaniella floridana	1
6	Pinnixa chacei	1

TOTAL = 36

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.244995
var (H')	=	.0408814
J'	=	.6948449
var (J')	=	1.273404E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
NO. OF INDIVIDUALS = 36
MARGALEF DIVERSITY: 3.212743
MENHINICK DIVERSITY: 1
SIMPSON DOMINANCE: .4063492
SIMPSON DIVERSITY: .5936508
INVERSE, SIMPSON DIV.: 2.460938
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .4228395
SIMPSON DIV.: .5771605
INVERSE OF DOMINANCE: 2.364964
SHANNON DIVERSITY*:
.4737809 1.090921 1.573866
BRILLOUIN DIVERSITY*:
.402891 .9276907 1.338375
*BASE 10, BASE E, BASE 2

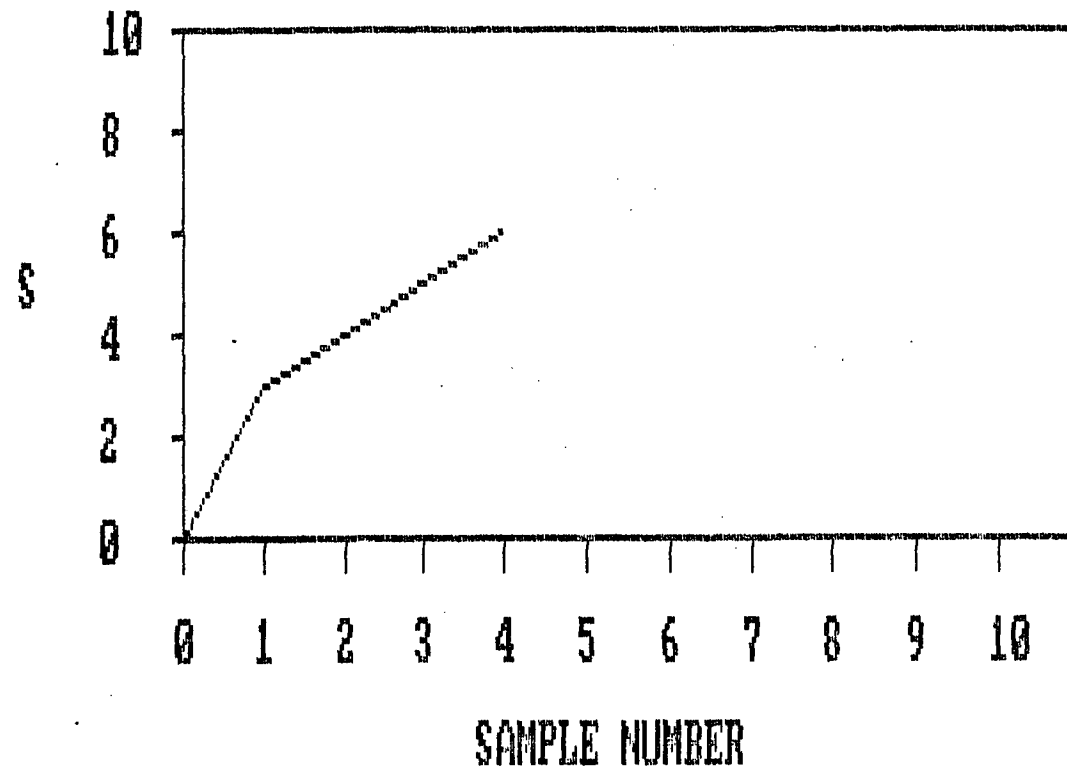
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

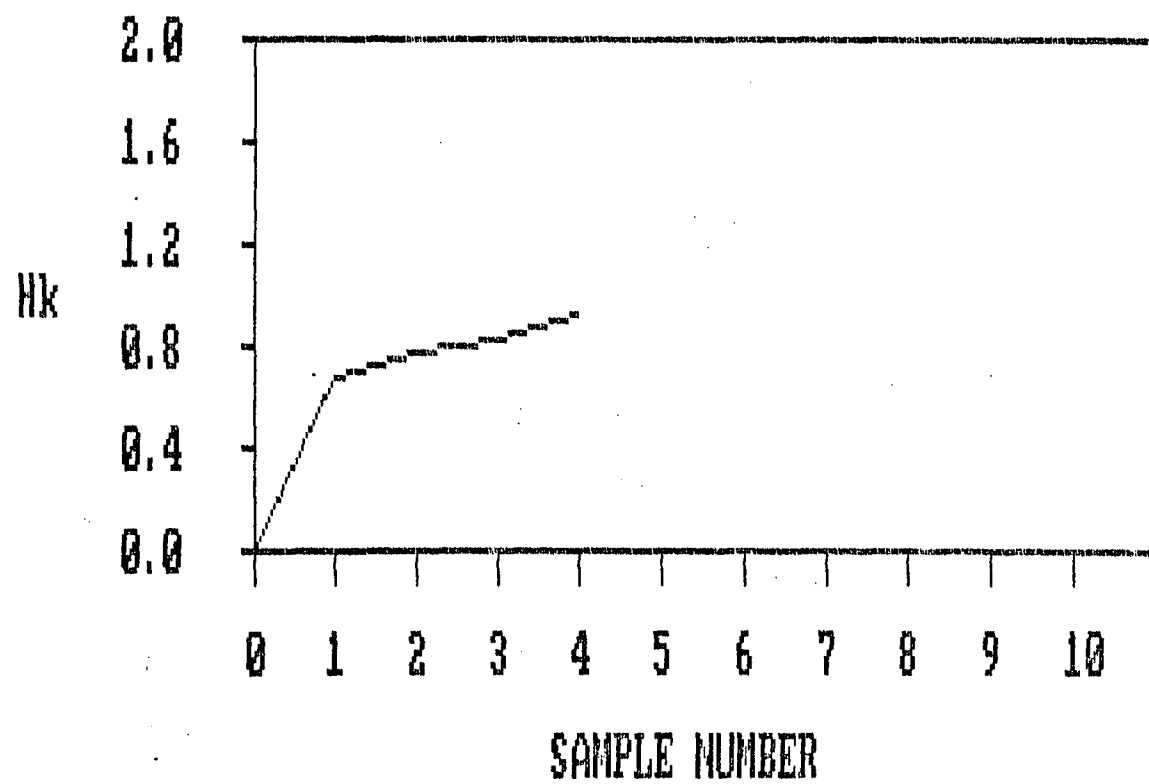
SIMPSON DIVERSITY: .6925926 .8571429
INVERSE, SIMPSON DOM.: .3515625 7
SHANNON DIVERSITY: .6088545 1.791759
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5937834 1.562338
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4961691
HEIP EVENNESS: .3954029
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
1	3	6	1.20
2	4	12	1.68
3	1	12	1.73
4	2	14	1.87

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	10
2	Ancinus depressus	4
3	Donax variabilis	4
4	Leitoscoloplos fragilis	4
5	Bowmaniella floridana	3
6	Spilocuma salomani	3
7	Ogyrides hayi	1
8	unid bivalve	1
9	Branchiostoma sp	1
10	Nephtys bucera	1
11	unid nemertean	1
12	Tiron triocellatus	1
13	Metamysidopsis swifti	1
14	Paraonis fulgens	1

TOTAL = 36

ENTER TO CONTINUE?

ESTIMATES

$H^2 = 2.296476$
 $\text{var}(H^2) = 2.127647E-03$
 $J^2 = .8701881$
 $\text{var}(J^2) = 3.054935E-04$
 $N = 2$

ENTER TO CONTINUE?

NUMBER OF SPECIES = 14
NO. OF INDIVIDUALS = 36
MARGALEF DIVERSITY: 8.353132
MENHINICK DIVERSITY: 2.333333
SIMPSON DOMINANCE: .1095238
SIMPSON DIVERSITY: .8904762
INVERSE, SIMPSON DIV.: 9.130435
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .1342593
SIMPSON DIV.: .8657408
INVERSE OF DOMINANCE: 7.448276
SHANNON DIVERSITY*:
.9983178 2.298712 3.31634
BRILLOUIN DIVERSITY*:
.8142732 1.874933 2.704957
*BASE 10, BASE E, BASE 2

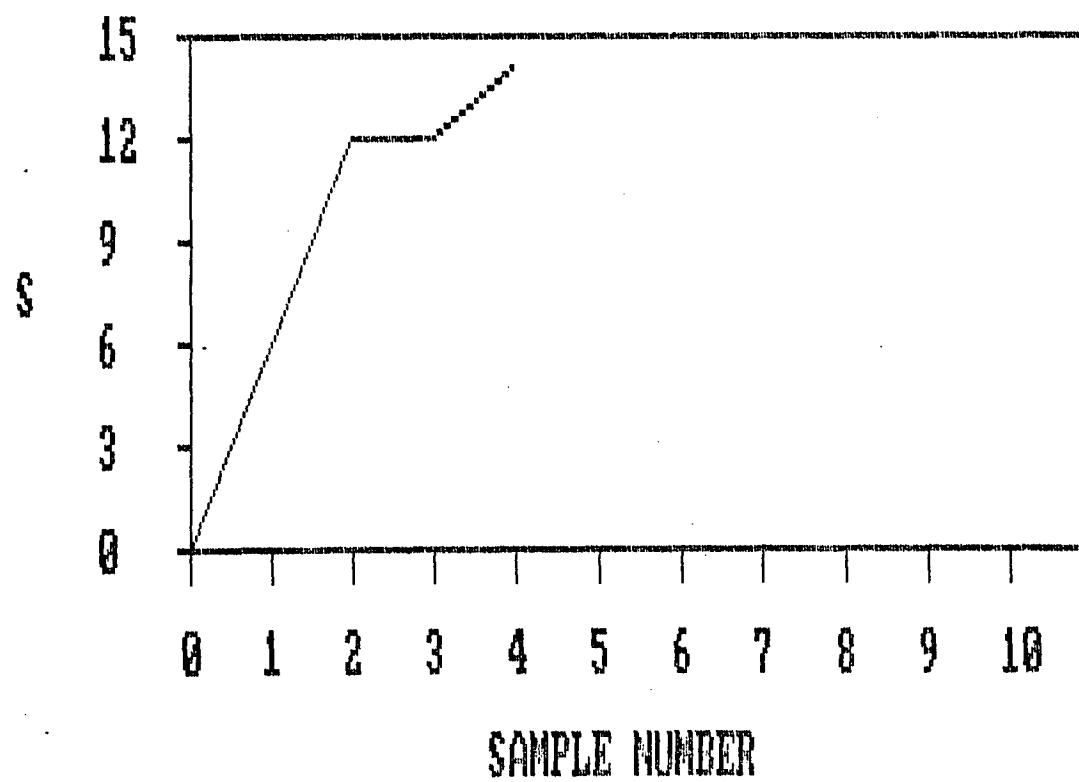
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

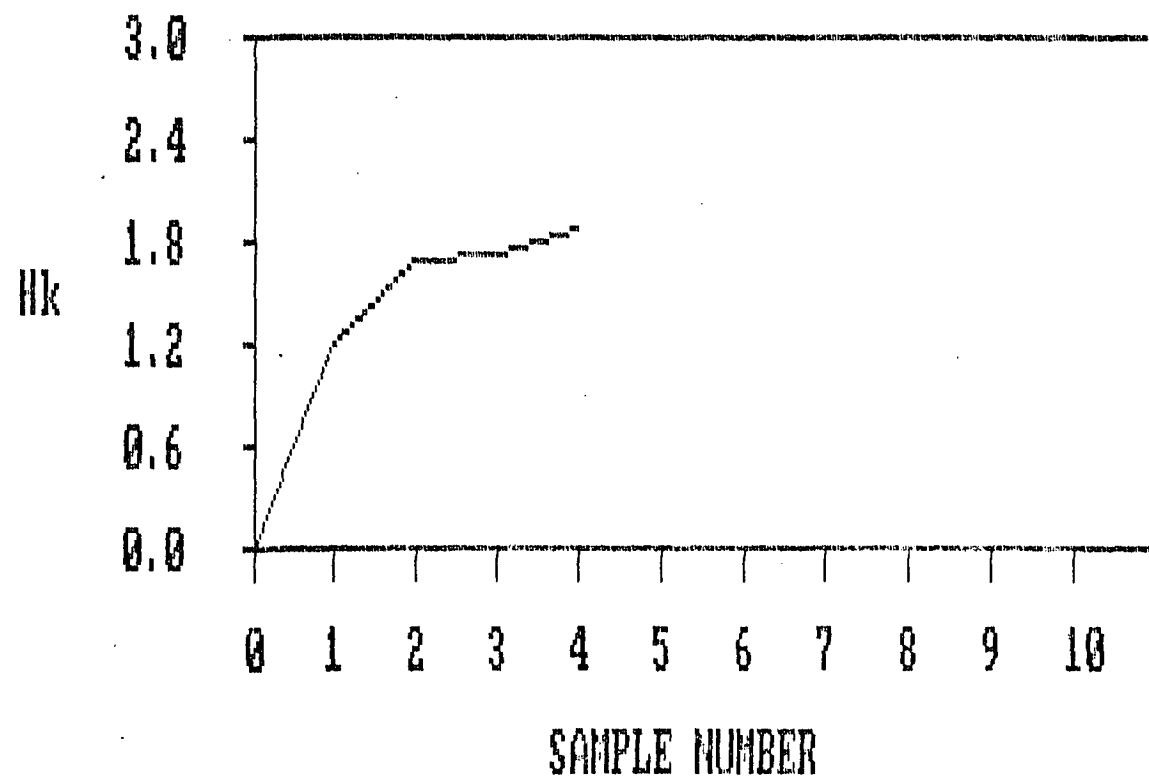
SIMPSON DIVERSITY: .9323362 .955102
INVERSE, SIMPSON DOM.: .4099379 22.27273
SHANNON DIVERSITY: .8710352 2.639057
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7904825 2.371885
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7115244
HEIP EVENNESS: .6893339
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PKIAP88.15M PERDIDO KEY STA. T1 15M 26 APRIL 1988

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	1	2	0.21
2	3	2	0.11
3	4	2	0.06
4	2	3	0.08

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scoelelepis squamata	115
2	Microprotopus raneyi	1
3	Donax variabilis	1

TOTAL = 117

ENTER TO CONTINUE?

ESTIMATES

H² = 6.316765E-02
var (H²) = 1.702899E-03
J² = 5.749767E-02
var (J²) = 1.410912E-03
N = 2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 117
MARGALEF DIVERSITY: .9670311
MENHINICK DIVERSITY: .2773501
SIMPSON DOMINANCE: .9659593
SIMPSON DIVERSITY: 3.404069E-02
INVERSE, SIMPSON DIV.: 1.03524
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .9662503
SIMPSON DIV.: .0337497
INVERSE OF DOMINANCE: 1.034929
SHANNON DIVERSITY*:
.0427138 9.835216E-02 .1418922
BRILLOUIN DIVERSITY*:
3.532179E-02 8.133143E-02 .1173365
*BASE 10, BASE E, BASE 2

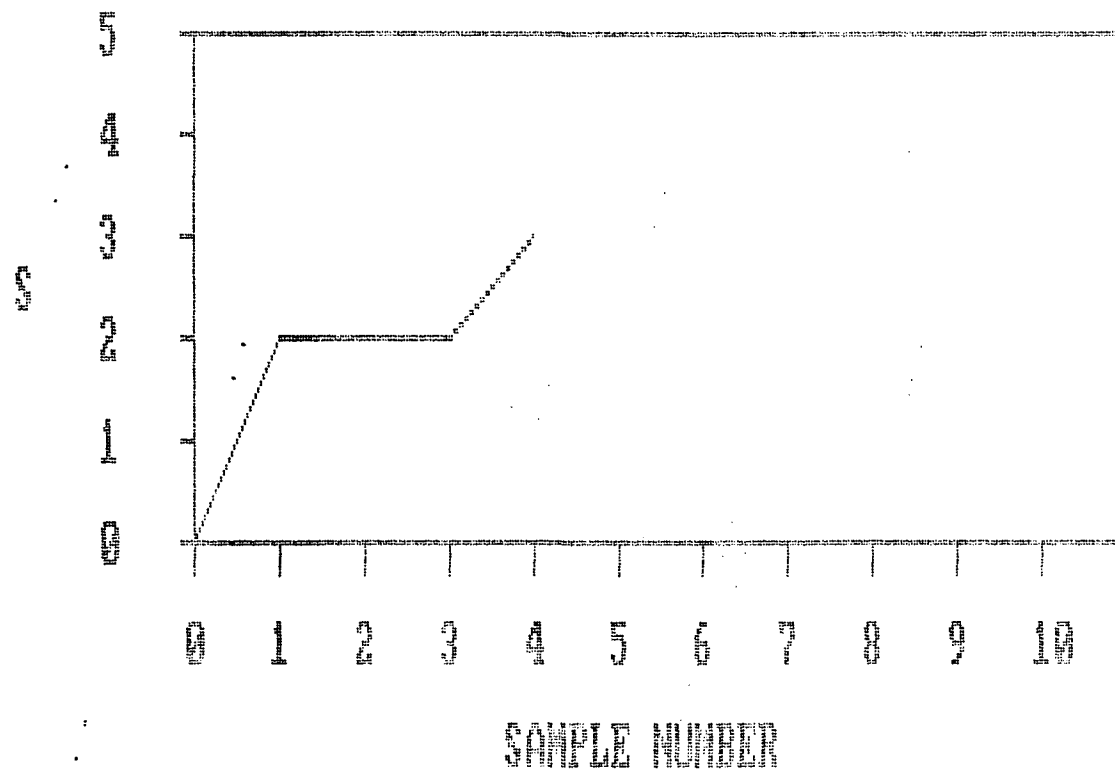
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: 5.062462E-02 .6724138
INVERSE, SIMPSON DOM.: .3391304 3.052632
SHANNON DIVERSITY: 3.952399E-02 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: 7.700105E-02 1.056233
(MAX. IS IN BASE E)
SHELDON EVENNESS: .3677838
HEIP EVENNESS: 5.167562E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the research.

2. The second part of the report is a detailed description of the methods used in the study. It includes a discussion of the experimental design, the data collection procedures, and the statistical analysis techniques.

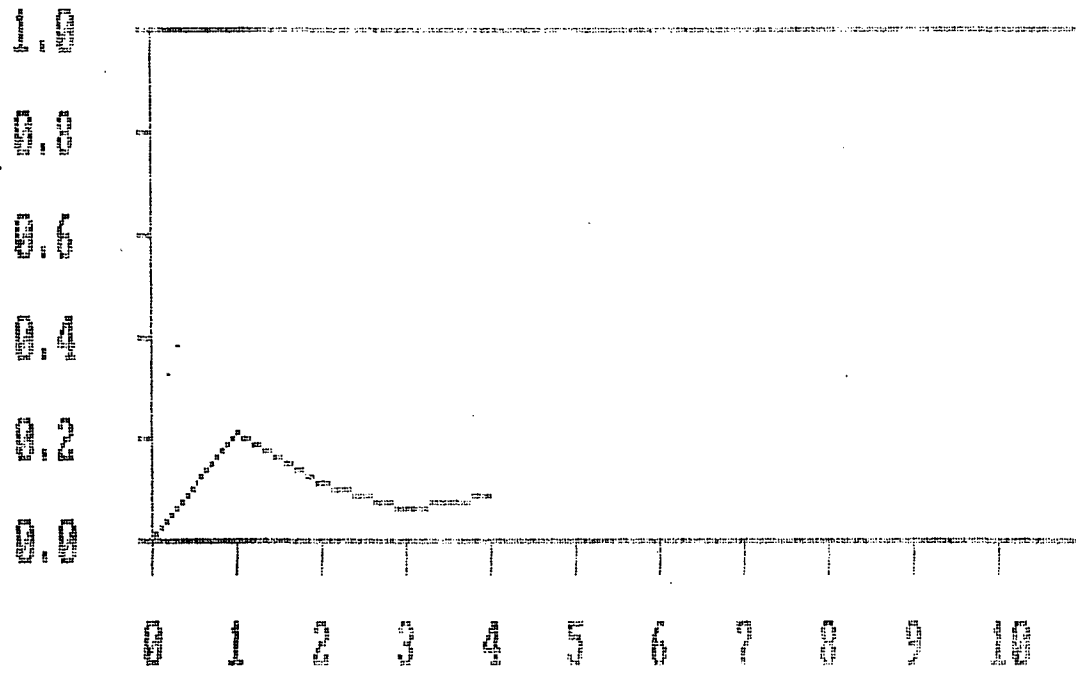


Figure 1

CODE: PK1JL88.15M

PERDIDO KEY TRANSECT 1

15M

27 JULY 1988

NUM	SAMP	CUM S	CUM HK
1	2	4	0.18
2	3	5	0.26
3	1	7	0.40
4	4	11	0.59

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Donax variabilis	269
2	Haustorius sp A	23
3	Spilocuma salomani	15
4	Scolecopsis squamata	2
5	Lepidopa benedicti	1
6	Nephtys bucera	1
7	Dispio uncinata	1
8	Ophiophragmus moorei	1
9	Hastula salleana	1
10	Paraonis fulgens	1
11	Pinnixa chacei	1

TOTAL = 316

ENTER TO CONTINUE?

ESTIMATES

H' =	2.583712
var (H') =	7.753054E-02
J' =	1.077492
var (J') =	.0134838
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 11
NO. OF INDIVIDUALS = 316
MARGALEF DIVERSITY: 4.000501
MENHINICK DIVERSITY: .6187984
SIMPSON DOMINANCE: .7314647
SIMPSON DIVERSITY: .2685353
INVERSE, SIMPSON DIV.: 1.36712
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .7323145
SIMPSON DIV.: .2676855
INVERSE OF DOMINANCE: 1.365533
SHANNON DIVERSITY*:
.2744765 .6320055 .9117912
BRILLOUIN DIVERSITY*:
.2566164 .590881 .852461
*BASE 10, BASE E, BASE 2

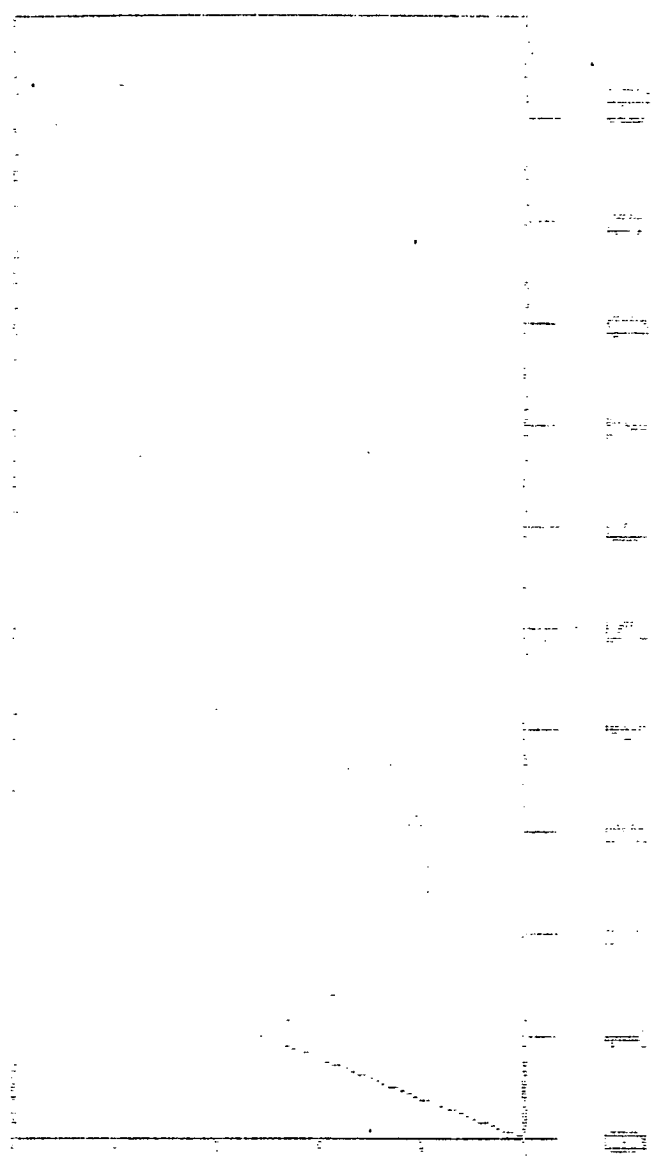
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .294454 .9119769
INVERSE, SIMPSON DOM.: .1203381 11.36065
SHANNON DIVERSITY: .2635568 2.397895
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2465335 2.396758
(MAX. IS IN BASE E)
SHELDON EVENNESS: .1710345
HEIP EVENNESS: .088138
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the research.

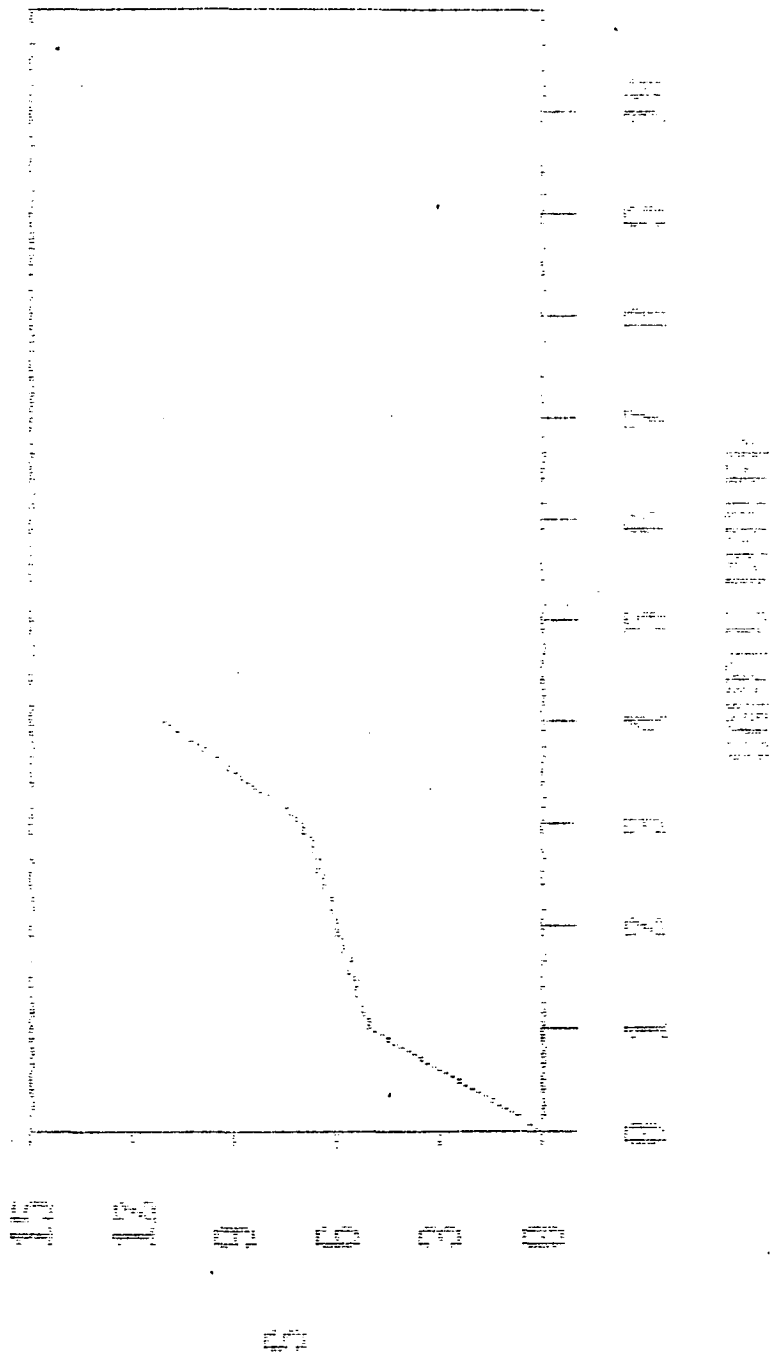


2. The second part of the report is a detailed description of the methods used in the study. It includes a discussion of the experimental design, the data collection process, and the statistical analysis techniques.

3. The third part of the report is a discussion of the results of the study. It presents the findings of the research and compares them with the expectations of the study.

4. The fourth part of the report is a conclusion and a list of references. It summarizes the main points of the study and provides a list of the sources used in the research.

SECRETARY'S OFFICE



PERDIDO KEY STATION T1

30 M FROM SHORE

BOX CORER - INFAUNAL

CODE: PK10C86.30M PERDIDO KEY STA. T1 30M 8 OCTOBER 1986

NUM	SAMP	CUM S	CUM Hk
1	3	1	0.00
2	1	7	1.17
3	4	10	1.68
4	2	11	1.80

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	12
2	Leitoscoloplos fragilis	9
3	Microprotopus raneyi	5
4	Ancinus depressus	4
5	Cyclaspus varians	4
6	Bowmaniella floridana	3
7	Metamysidopsis swifti	3
8	Scoelelepis squamata	2
9	unid phyllodocid	1
10	Cyclaspus pustulata	1
11	Branchiostoma sp	1

TOTAL = 45

ENTER TO CONTINUE?

ESTIMATES

H' = 2.255523
var (H') = 6.84611E-03
J' = .9406259
var (J') = 1.190648E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 11
NO. OF INDIVIDUALS = 45
MARGALEF DIVERSITY: 6.04883
MENHINICK DIVERSITY: 1.639783
SIMPSON DOMINANCE: .1323232
SIMPSON DIVERSITY: .8676767
INVERSE, SIMPSON DIV.: 7.557252
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .1516049
SIMPSON DIV.: .8483951
INVERSE OF DOMINANCE: 6.596091
SHANNON DIVERSITY*:
.9128909 2.102009 3.032558
BRILLOUIN DIVERSITY*:
.7809061 1.798103 2.594114
*BASE 10, BASE E, BASE 2

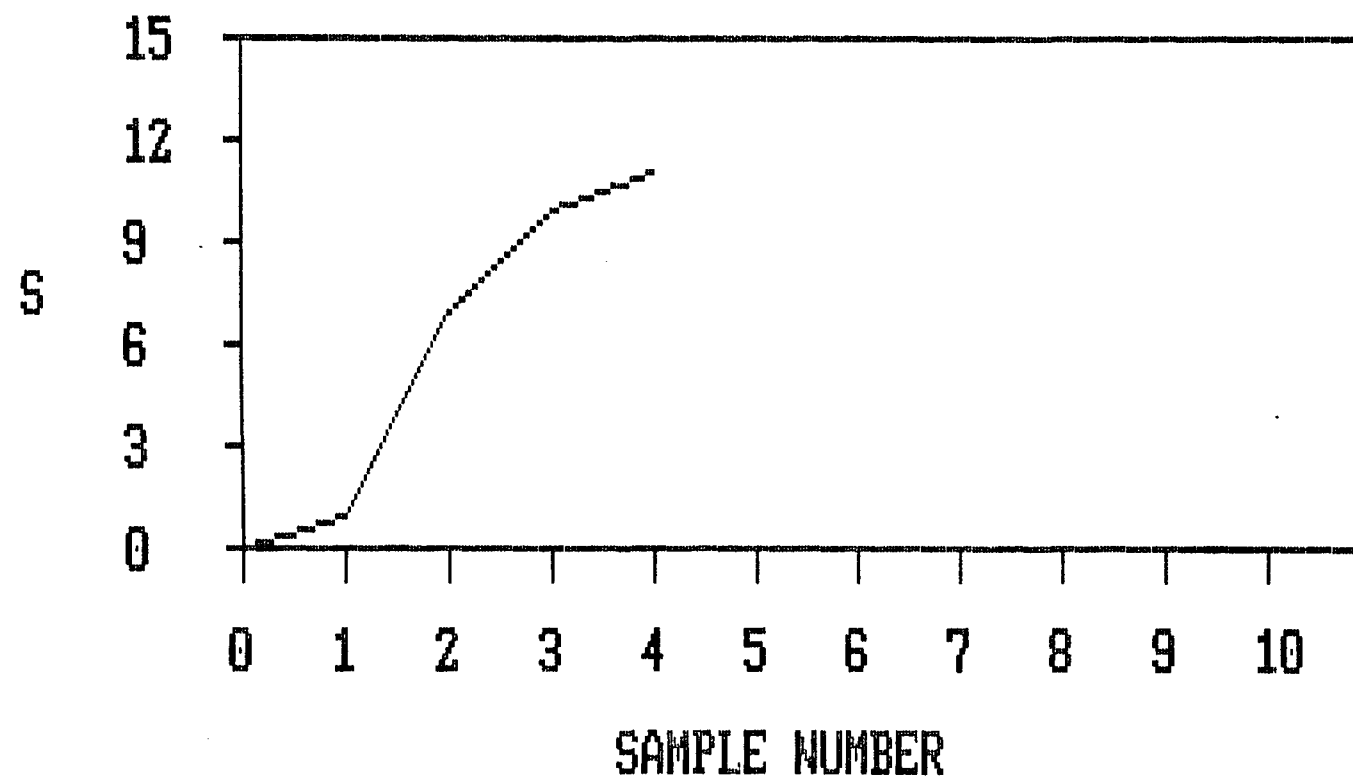
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

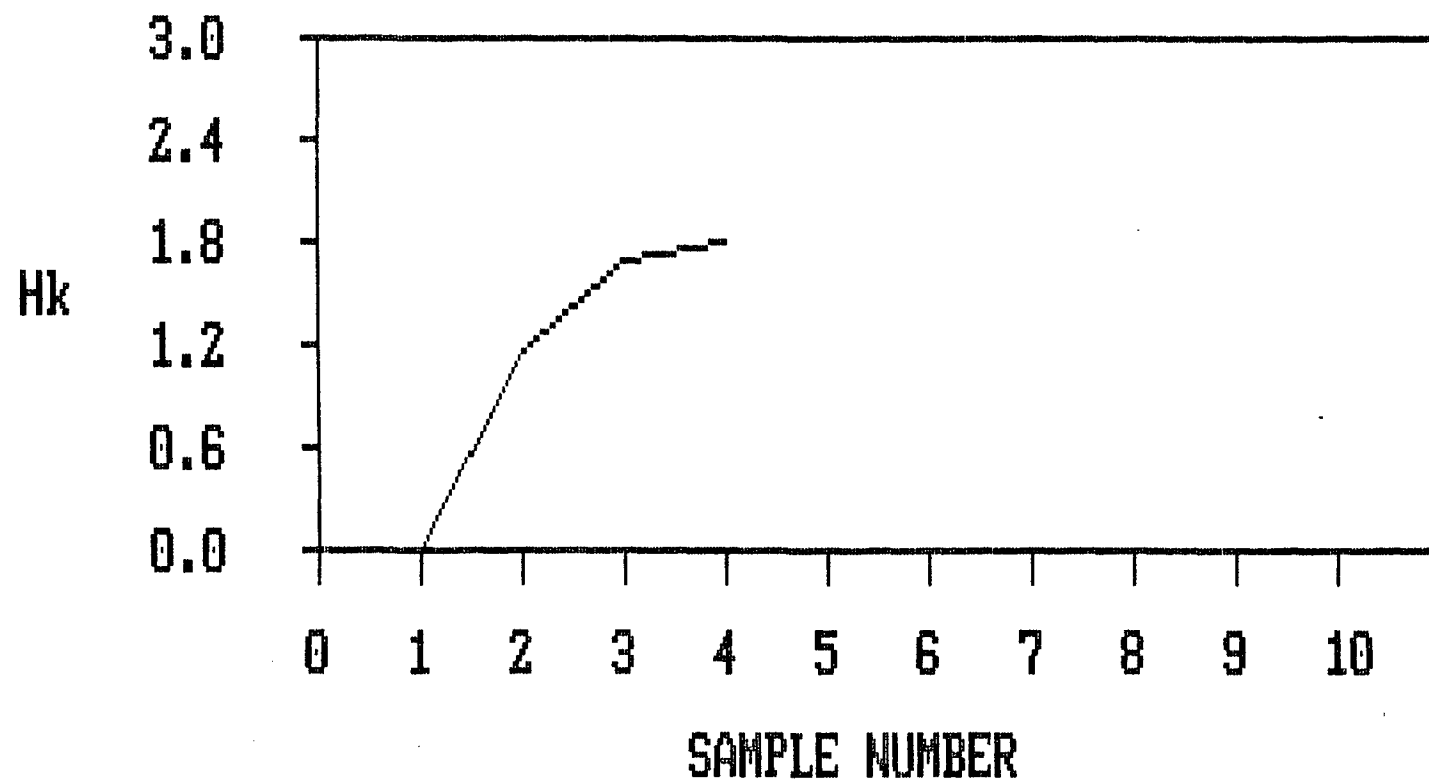
SIMPSON DIVERSITY: .9332346 .9297521
INVERSE, SIMPSON DOM.: .5308814 14.23529
SHANNON DIVERSITY: .8766059 2.397895
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .8606197 2.089312
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7438721
HEIP EVENNESS: .7182592
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1AP87.30M PERDIDO KEY STA.1 30M 10 APRIL 1987

NUM	SAMP	CUM S	CUM Hk
1	4	3	0.60
2	1	6	1.13
3	3	7	1.15
4	2	8	1.15

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	25
2	Scoelelepis squamata	14
3	Lepidactylus sp A	3
4	Pinnixa chacei	2
5	Spilocuma watlingi	1
6	Emerita talpoida	1
7	unid nemertean	1
8	Dispio uncinata	1

TOTAL = 48

ENTER TO CONTINUE?

ESTIMATES

H' =	1.202614
var (H') =	3.063758E-03
J' =	.5783352
var (J') =	7.085346E-04
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 8
NO. OF INDIVIDUALS = 48
MARGALEF DIVERSITY: 4.163591
MENHINICK DIVERSITY: 1.154701
SIMPSON DOMINANCE: .3501773
SIMPSON DIVERSITY: .6498227
INVERSE, SIMPSON DIV.: 2.855696
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .3637153
SIMPSON DIV.: .6362847
INVERSE OF DOMINANCE: 2.749403
SHANNON DIVERSITY*:
.5764972 1.327434 1.915082
BRILLOUIN DIVERSITY*:
.4975765 1.145712 1.652913
*BASE 10, BASE E, BASE 2

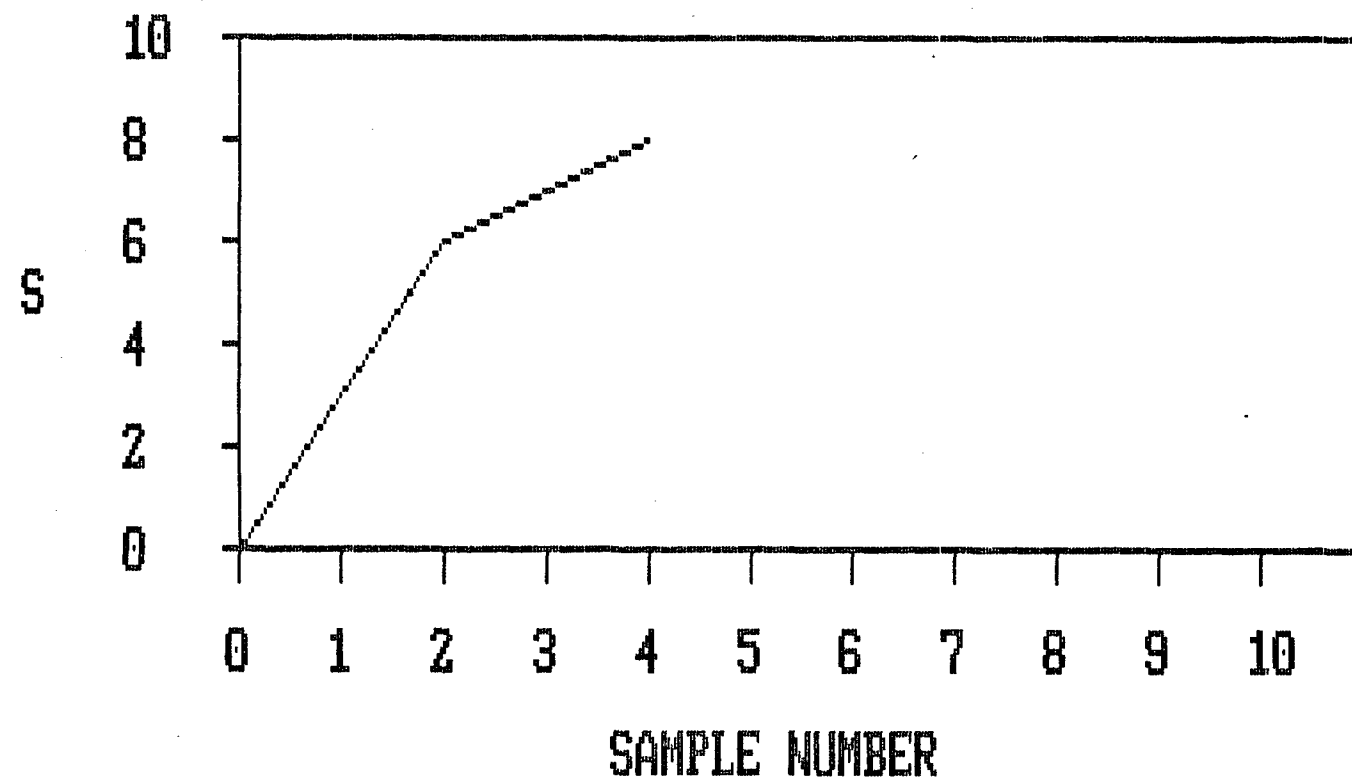
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

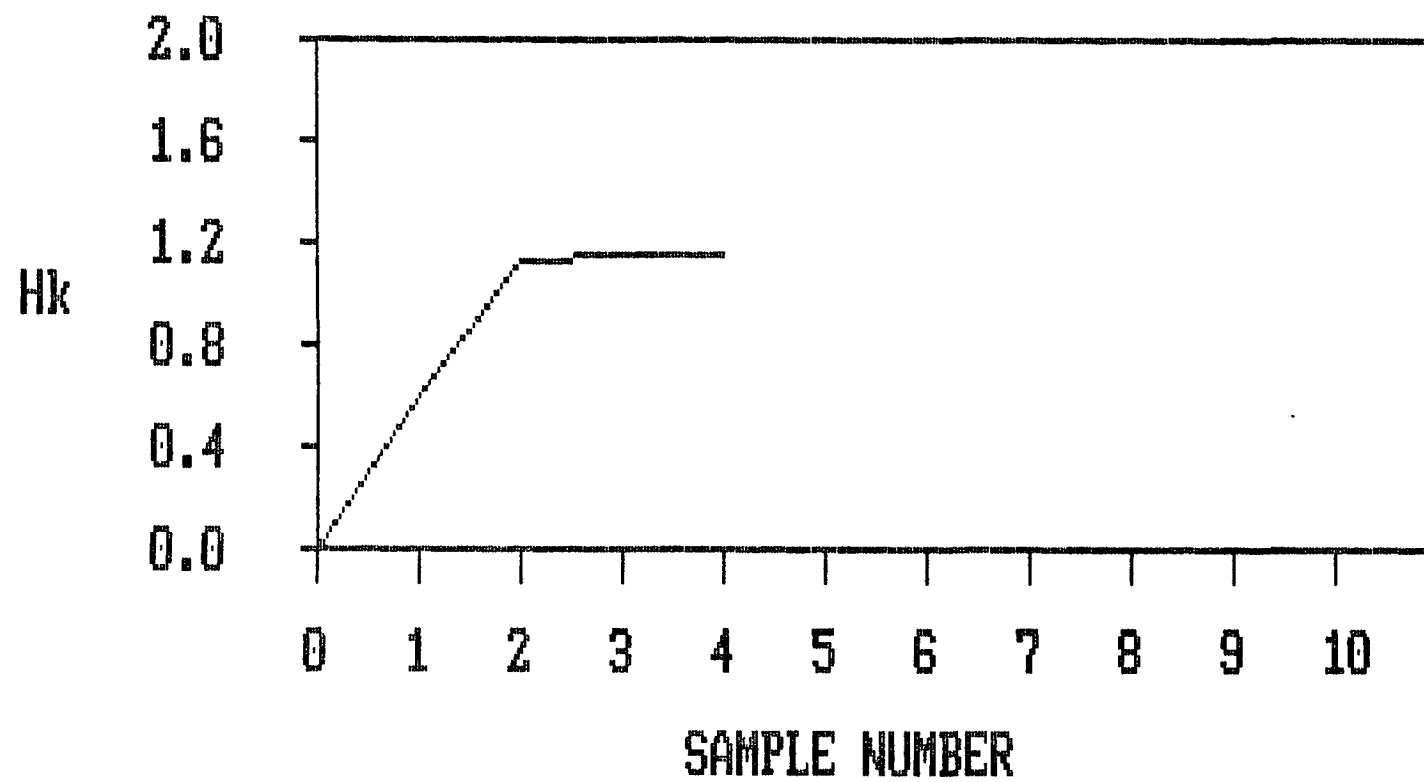
SIMPSON DIVERSITY: .7271826 .893617
INVERSE, SIMPSON DOM.: .3037975 9.4
SHANNON DIVERSITY: .6383608 2.079442
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .6246507 1.834165
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4714192
HEIP EVENNESS: .3959076
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1JL87.30M PERDIDO KEY STA. T1 30M 23 JULY 1987

NUM	SAMP	CUM S	CUM HK
----	-----	-----	-----
1	2	3	0.72
2	4	6	1.14
3	3	7	1.21
4	1	8	1.24

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Lepidactylus sp A	19
2	Paraonis fulgens	13
3	Pinnixa chacei	4
4	Leitoscoloplos fragilis	2
5	Emerita talpoida	1
6	Lepidopa benedicti	1
7	Ophiophragmus filograneus	1
8	Nephtys bucera	1

TOTAL = 42

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.704391
var (H')	=	.1686609
J'	=	.8196387
var (J')	=	3.900506E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 8
 NO. OF INDIVIDUALS = 42
 MARGALEF DIVERSITY: 4.312338
 MENHINICK DIVERSITY: 1.234427
 SIMPSON DOMINANCE: .2973287
 SIMPSON DIVERSITY: .7026713
 INVERSE, SIMPSON DIV.: 3.363281
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .314059
 SIMPSON DIV.: .685941
 INVERSE OF DOMINANCE: 3.184115
 SHANNON DIVERSITY*:
 .6282998 1.446714 2.087167
 BRILLOUIN DIVERSITY*:
 .5377871 1.238301 1.78649
 *BASE 10, BASE E, BASE 2

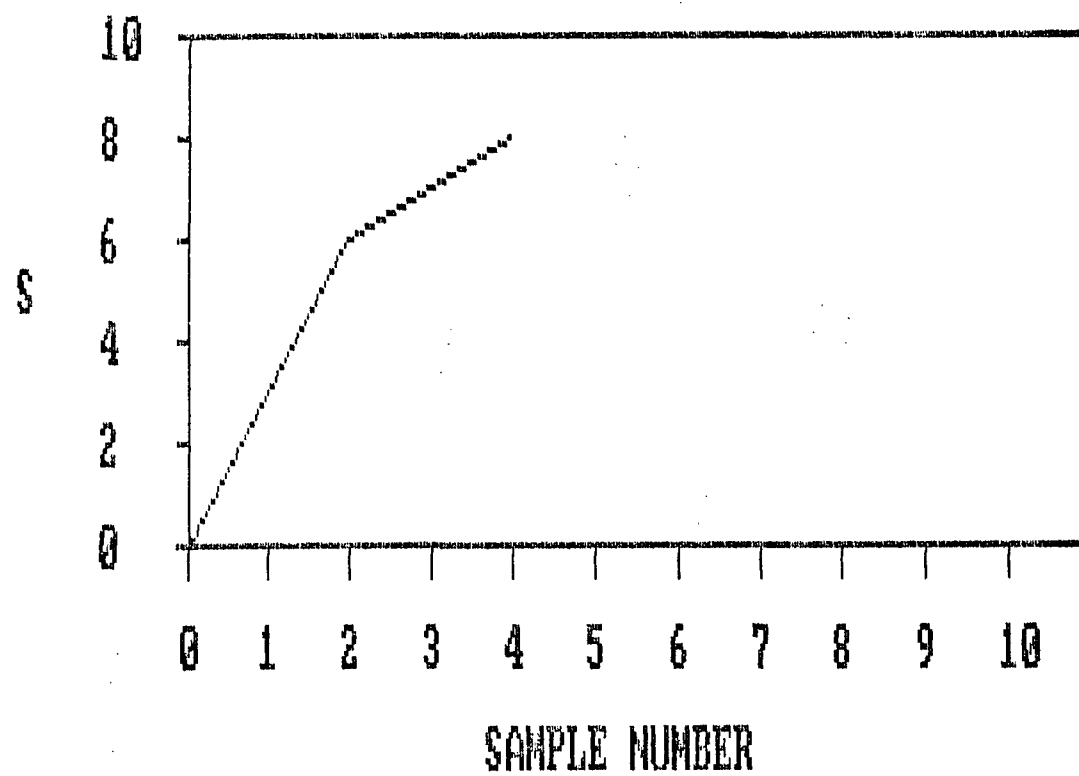
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

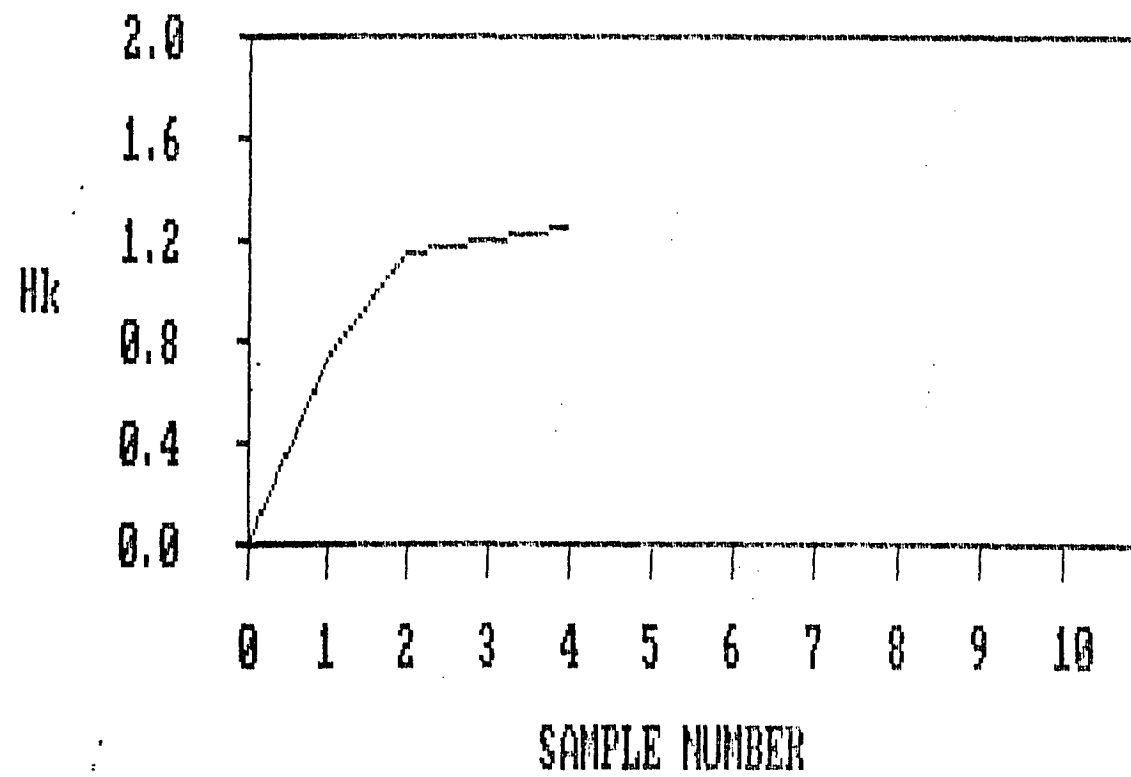
SIMPSON DIVERSITY: .7837326 .8963414
 INVERSE, SIMPSON DOM.: .3486328 9.647059
 SHANNON DIVERSITY: .6957223 2.079442
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: .658137 1.881524
 (MAX. IS IN BASE E)
 SHELTON EVENNESS: .531141
 HEIP EVENNESS: .4641611
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



NUM	SAMP	CUM S	CUM HK
---	----	-----	-----
1	1	7	1.08
2	4	12	1.70
3	2	12	1.61
4	3	14	1.69

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Lepidactylus sp A	28
2	Leitoscoloplos fragilis	14
3	Pinnixa chacei	8
4	Paraonis fulgens	6
5	Metamysidopsis swifti	4
6	Lepidopa benedicti	2
7	Tiron triocellatus	2
8	Ancinus depressus	1
9	Ogyrides hayi	1
10	Nephtys buccera	1
11	Chirodotea excavata	1
12	Leptosynapta crassipatina	1
13	Polinices duplicatus	1
14	Bowmaniella floridana	1

TOTAL = 71

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.6572
var (H')	=	6.658077E-02
J'	=	.6279515
var (J')	=	9.559852E-03
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 14
NO. OF INDIVIDUALS = 71
MARGALEF DIVERSITY: 7.02225
MENHINICK DIVERSITY: 1.661494
SIMPSON DOMINANCE: .2092555
SIMPSON DIVERSITY: .7907445
INVERSE, SIMPSON DIV.: 4.778846
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2203928
SIMPSON DIV.: .7796072
INVERSE OF DOMINANCE: 4.537354
SHANNON DIVERSITY*:
.8361569 1.925322 2.777653
BRILLOUIN DIVERSITY*:
.7332394 1.688346 2.435768
*BASE 10, BASE E, BASE 2

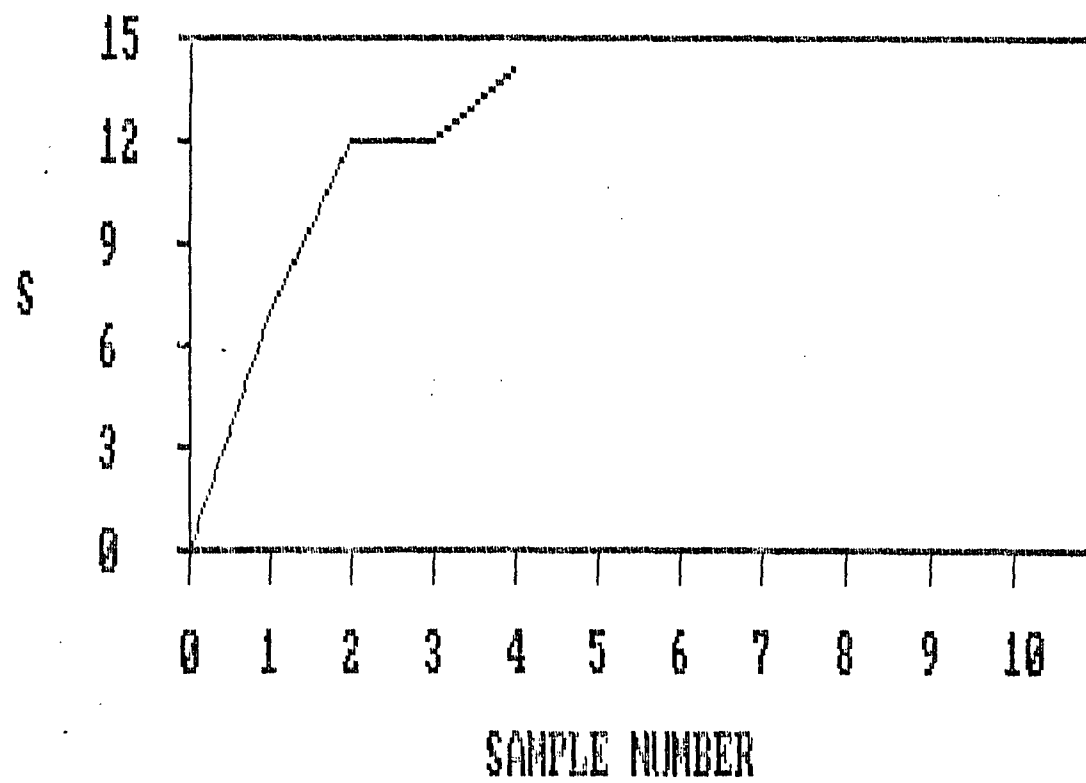
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

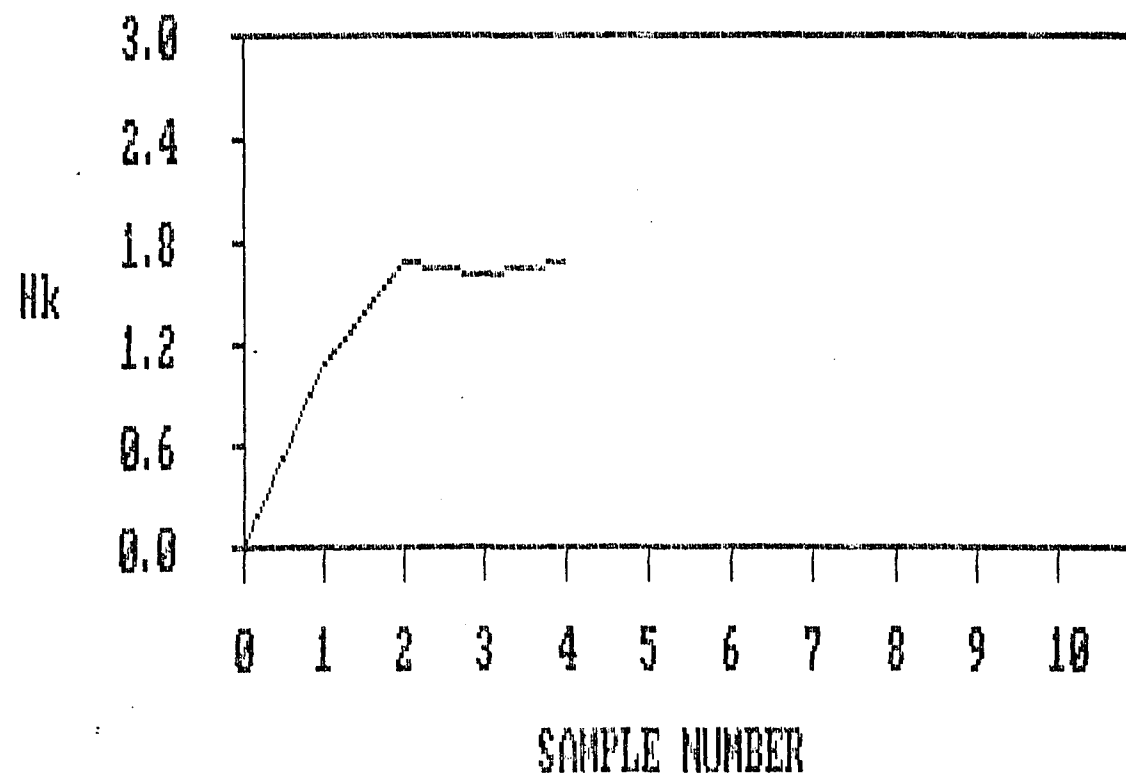
SIMPSON DIVERSITY: .839577 .9418367
INVERSE, SIMPSON DOM.: .2779533 17.19298
SHANNON DIVERSITY: .7295493 2.639057
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7154486 2.359843
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4698114
HEIP EVENNESS: .4505661
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK1AP88.30M PERDIDO KEY STA. T1 30M 26 APRIL 1988

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	2	6	0.37
2	1	7	0.35
3	3	7	0.32
4	4	7	0.30

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
-----	-----	-----
1	Scolecopsis squamata	493
2	Donax variabilis	11
3	Spilocuma salomani	10
4	Haustorius sp A	9
5	Ancinus depressus	1
6	Pinnixa chacei	1
7	Nephtys bucera	1

TOTAL = 526

ENTER TO CONTINUE?

ESTIMATES

H'	=	.2515352
var (H')	=	7.604063E-05
J'	=	.1292635
var (J')	=	2.008168E-05
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 7
NO. OF INDIVIDUALS = 526
MARGALEF DIVERSITY: 2.205083
MENHINICK DIVERSITY: .3052145
SIMPSON DOMINANCE: .8793337
SIMPSON DIVERSITY: .1206663
INVERSE, SIMPSON DIV.: 1.137225
IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .8795631
 SIMPSON DIV.: .1204369
 INVERSE OF DOMINANCE: 1.136928
SHANNON DIVERSITY*:
 .1399646 .3222805 .4649524
BRILLOUIN DIVERSITY*:
 .1323711 .3047957 .4397272
 *BASE 10, BASE E, BASE 2

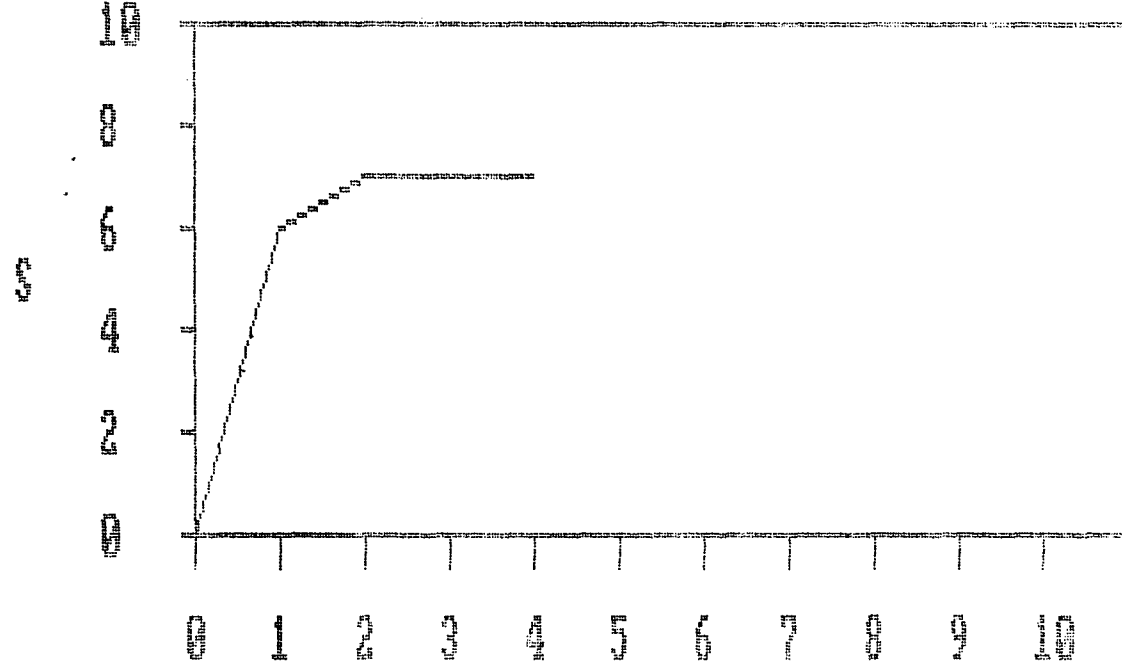
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .1405097 .3587755
INVERSE, SIMPSON DOM.: .160604 7.080925
SHANNON DIVERSITY: .1656194 1.94591
 (MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1587746 1.919676
 (MAX. IS IN BASE E)
SHELDON EVENNESS: .1971817
HEIP EVENNESS: 6.337865E-02
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

PERCENTAGE OF



PERCENTAGE OF

1. The first part of the report is a general introduction to the subject of the study. It discusses the importance of the problem and the objectives of the study.

2. The second part of the report is a detailed description of the methods used in the study. It includes a description of the experimental design, the data collection methods, and the statistical analysis.

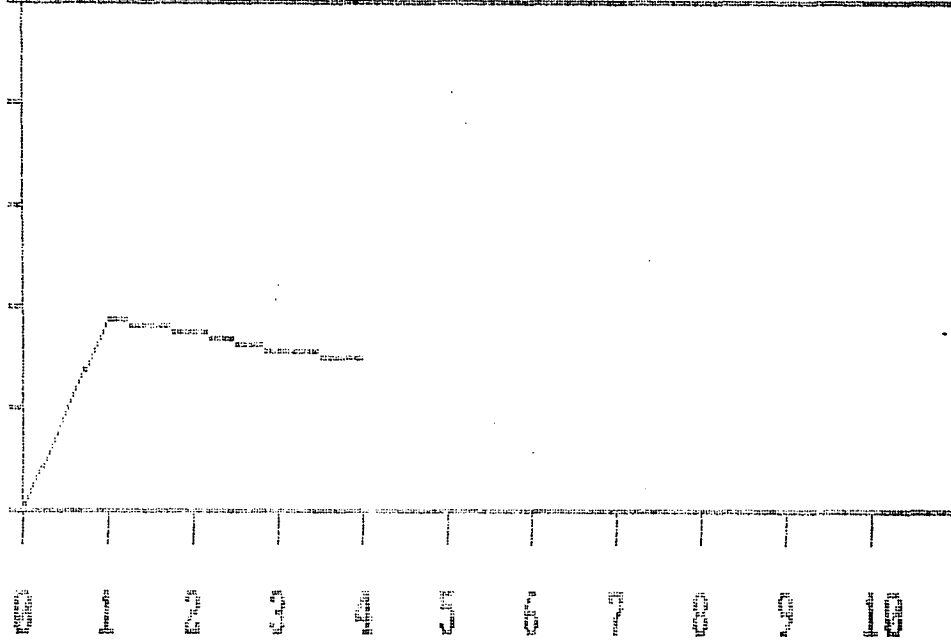
3. The third part of the report is a discussion of the results of the study. It includes a description of the findings and a comparison of the results with previous research.

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 recommendations for future research.

5. The fifth part of the report is a list of references. It includes a list of all the sources used in the study.

6. The sixth part of the report is a list of references. It includes a list of all the sources used in the study.

7. The seventh part of the report is a list of references. It includes a list of all the sources used in the study.



8. The eighth part of the report is a list of references. It includes a list of all the sources used in the study.

CODE: PK1JL88.30M

PERDIDO KEY

TRANSECT 1

30M

27 JULY 1988

NUM	SAMP	CUM S	CUM HK
1	1	7	1.30
2	3	10	1.65
3	2	12	1.82
4	4	15	1.89

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	17
2	Ancinus depressus	15
3	Donax variabilis	10
4	Metamysidopsis swifti	10
5	Chirodotea excavata	4
6	Spilocuma salomani	3
7	Leitoscoloplos fragilis	2
8	Lepidactylus sp A	2
9	Lepidopa benedicti	1
10	Hastula salleana	1
11	Bowmaniella floridana	1
12	Emerita talpoida	1
13	Magelona sp A	1
14	Paraonis fulgens	1
15	Nephtys bucera	1

TOTAL = 70

ENTER TO CONTINUE?

ESTIMATES

H' =	2.03495
var (H') =	3.297488E-03
J' =	.7514445
var (J') =	4.49645E-04
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 15
NO. OF INDIVIDUALS = 70
MARGALEF DIVERSITY: 7.587673
MENHINICK DIVERSITY: 1.792843
SIMPSON DOMINANCE: .1416149
SIMPSON DIVERSITY: .8583851
INVERSE, SIMPSON DIV.: 7.061403
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .1538776
SIMPSON DIV.: .8461224
INVERSE OF DOMINANCE: 6.498673
SHANNON DIVERSITY*:
.9364876 2.156343 3.110945
BRILLOUIN DIVERSITY*:
.8218699 1.892425 2.730193
*BASE 10, BASE E, BASE 2

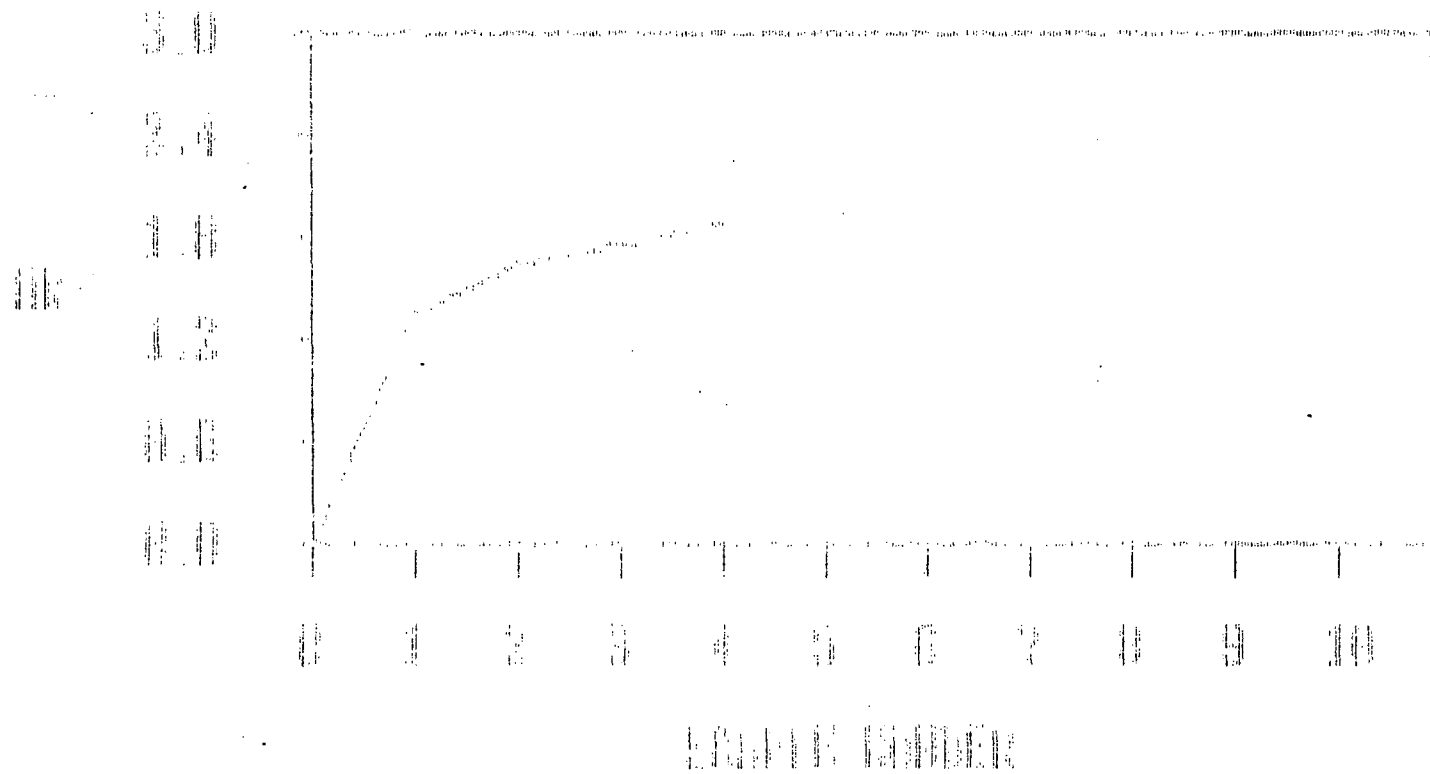
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

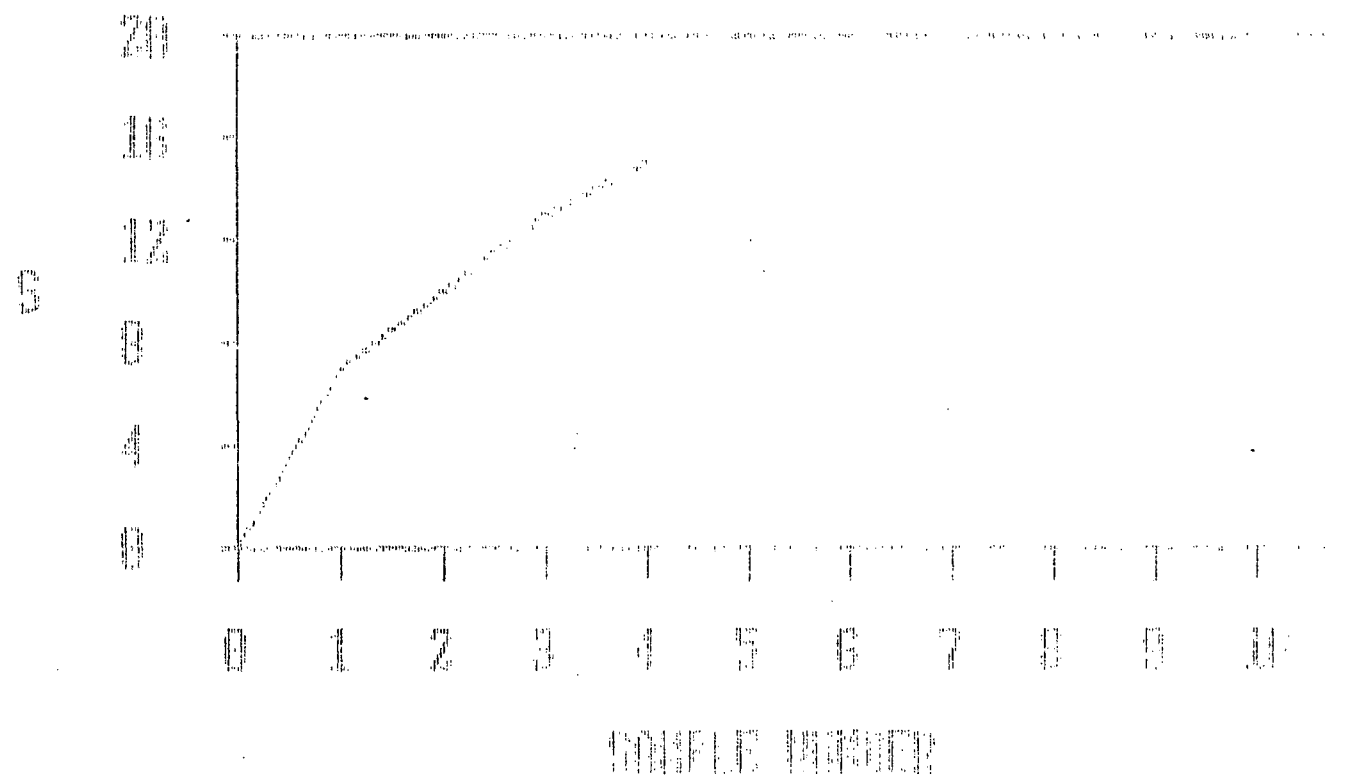
SIMPSON DIVERSITY: .9065598 .9468599
INVERSE, SIMPSON DOM.: .3752436 18.81818
SHANNON DIVERSITY: .7962712 2.70805
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7290767 2.595646
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5759653
HEIP EVENNESS: .5456772
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



PERDIDO KEY STATION T2

SWASH ZONE

BOX CORER - INFAUNAL

CODE: PK20C86.SWA PERDIDO KEY STA. 2 SWASH 8 OCTOBER 1986

NUM	SAMP	CUM S	CUM Hk
1	1	2	0.35
2	2	2	0.53
3	4	2	0.54
4	3	2	0.51

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scoelelepis squamata	16
2	Emerita talpoida	6

TOTAL = 22

ENTER TO CONTINUE?

ESTIMATES

H' = .5325715
var (H') = 1.639207E-03
J' = .7683383
var (J') = 3.411795E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 2
NO. OF INDIVIDUALS = 22
MARGALEF DIVERSITY: .7449219
MENHINICK DIVERSITY: .4264014
SIMPSON DOMINANCE: .5844156
SIMPSON DIVERSITY: .4155844
INVERSE, SIMPSON DIV.: 1.711111
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6033058
SIMPSON DIV.: .3966942
INVERSE OF DOMINANCE: 1.657534
SHANNON DIVERSITY*:
.254476 .5859528 .8453511
BRILLOUIN DIVERSITY*:
.2214915 .5100032 .735779
*BASE 10, BASE E, BASE 2

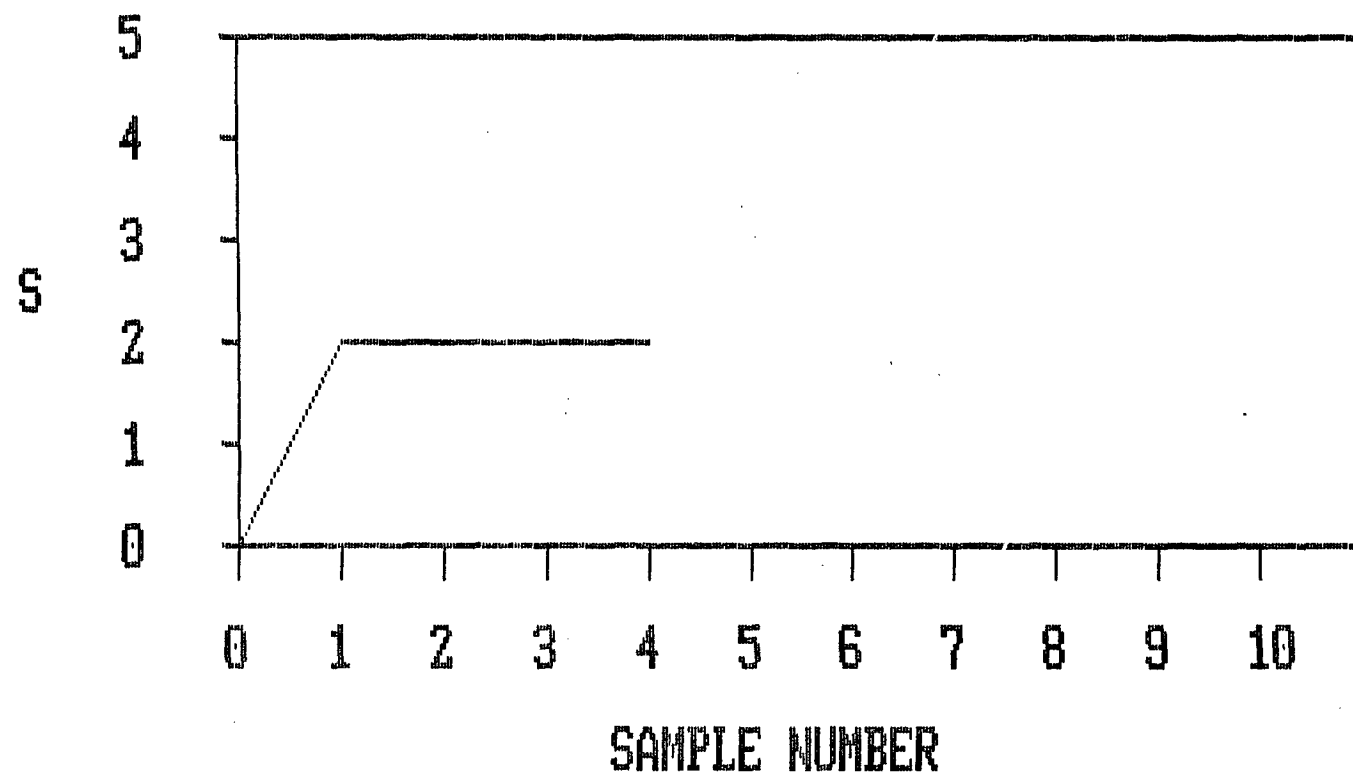
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

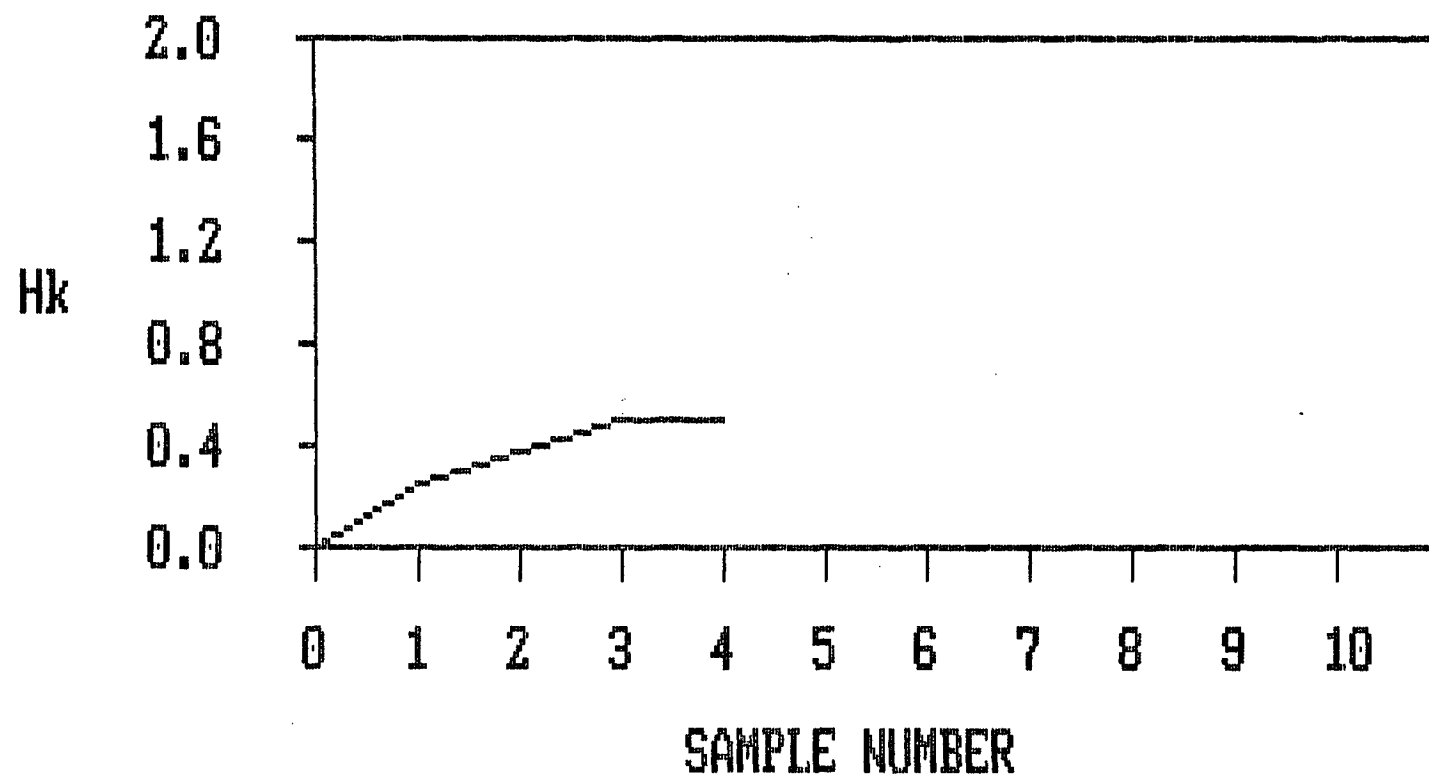
SIMPSON DIVERSITY: .7933884 .5238096
INVERSE, SIMPSON DOM.: .8148149 2.1
SHANNON DIVERSITY: .8453512 .6931472
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .8331798 .6121166
(MAX. IS IN BASE E)
SHELDON EVENNESS: .898351
HEIP EVENNESS: .7967019
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK2AP87.SWA PERDIDO KEY STA.2 SWASH 10 APRIL 1987

NUM	SAMP	CUM S	CUM Hk
1	2	2	0.13
2	4	3	0.15
3	1	3	0.11
4	3	3	0.11

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scoelelepis squamata	122
2	Emerita talpoida	2
3	Haustorius sp A	1

TOTAL = 125

ENTER TO CONTINUE?

ESTIMATES

H' = .1028984
var (H') = 1.52664E-03
J' = 9.366218E-02
var (J') = 1.264875E-03
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 125
MARGALEF DIVERSITY: .9537844
MENHINICK DIVERSITY: .2683282
SIMPSON DOMINANCE: .9525161
SIMPSON DIVERSITY: 4.748386E-02
INVERSE, SIMPSON DIV.: 1.049851
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .952896
SIMPSON DIV.: .047104
INVERSE OF DOMINANCE: 1.049433
SHANNON DIVERSITY*:
5.580641E-02 .128499 .1853849
BRILLOUIN DIVERSITY*:
4.783368E-02 .1101411 .1589
*BASE 10, BASE E, BASE 2

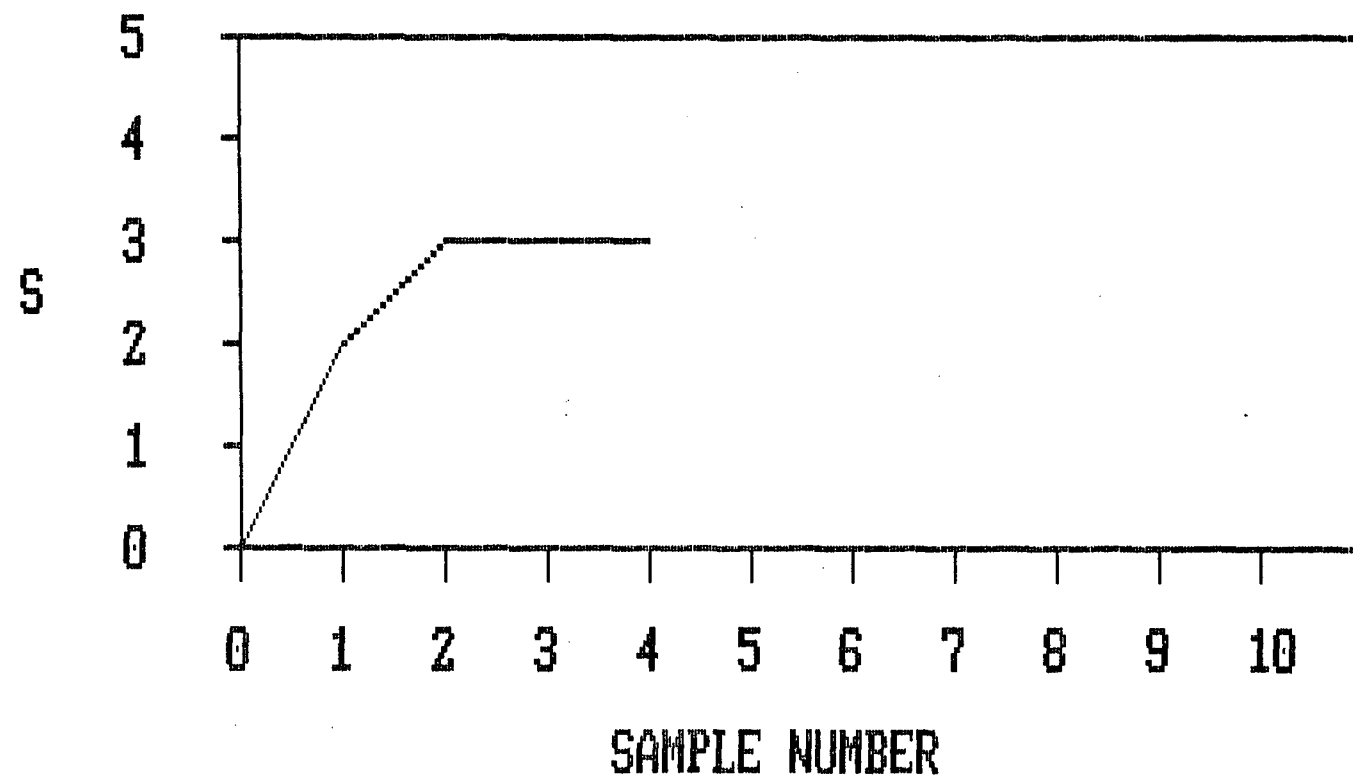
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

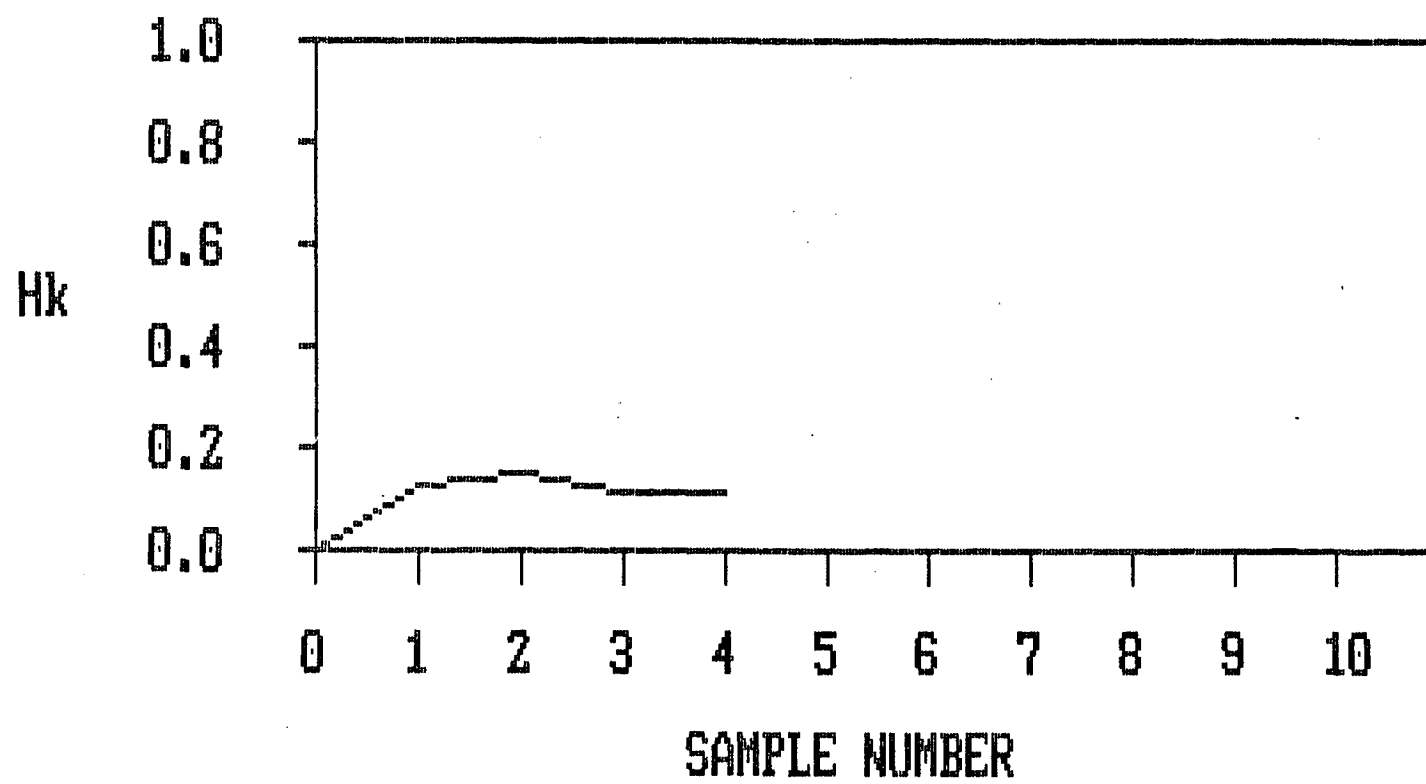
SIMPSON DIVERSITY: 7.065599E-02 .672043
INVERSE, SIMPSON DOM.: .344306 3.04918
SHANNON DIVERSITY: .1169648 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .1002898 1.098229
(MAX. IS IN BASE E)
SHELDON EVENNESS: .3790401
HEIP EVENNESS: 6.856012E-02
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK20087.SWA PERDIDO KEY STA. T2 SWASH 29 OCTOBER 1987

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	1	0	0.00
2	2	3	0.62
3	4	4	0.82
4	3	4	0.98

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	2
2	Emerita talpoida	2
3	Spilocuma salomani	2
4	Scoelelepis squamata	2

TOTAL = 8

ENTER TO CONTINUE?

ESTIMATES

H' = 1.427664
var (H') = 3.304195E-02
J' = 1.029842
var (J') = 1.719312E-02
N = 2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
 NO. OF INDIVIDUALS = 8
 MARGALEF DIVERSITY: 3.321928
 MENHINICK DIVERSITY: 1.414214
 SIMPSON DOMINANCE: .1428571
 SIMPSON DIVERSITY: .8571429
 INVERSE, SIMPSON DIV.: 7
 IF NOT A RANDOM SAMPLE:
 SIMPSON DOMINANCE: .25
 SIMPSON DIV.: .75
 INVERSE OF DOMINANCE: 4
 SHANNON DIVERSITY*:
 .60206 1.386294 2
 BRILLOUIN DIVERSITY*:
 .425175 .9790018 1.412401
 *BASE 10, BASE E, BASE 2

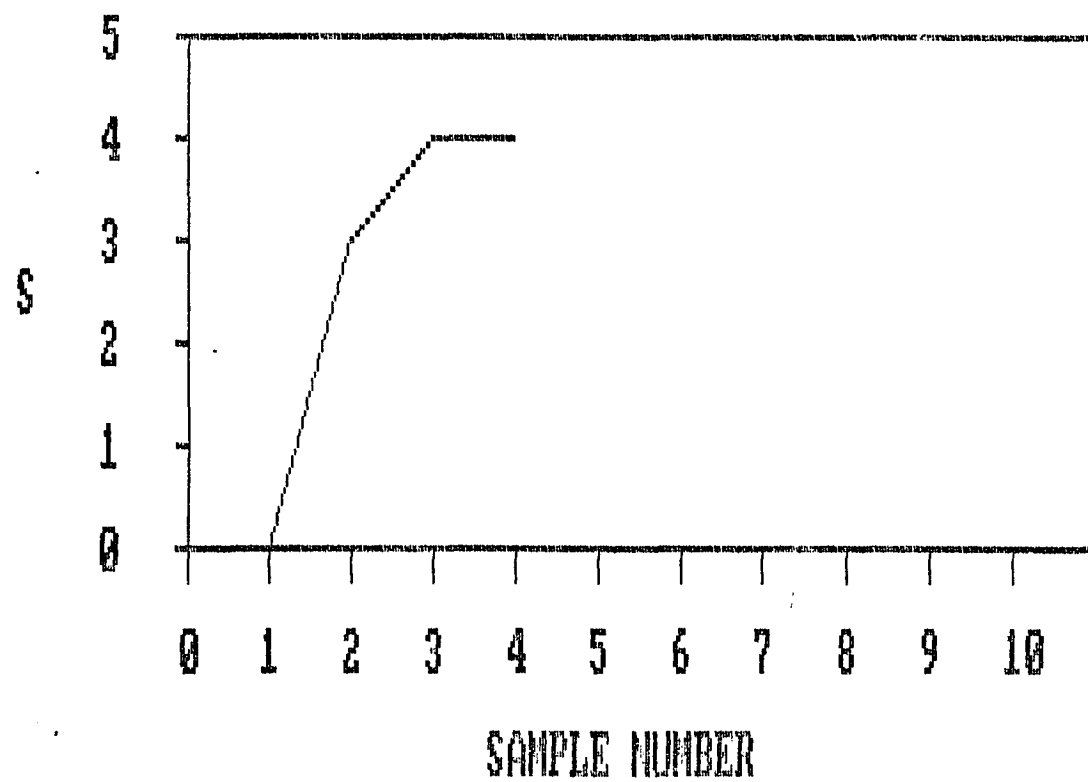
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
 FOLLOWED BY MAX. DIV.:

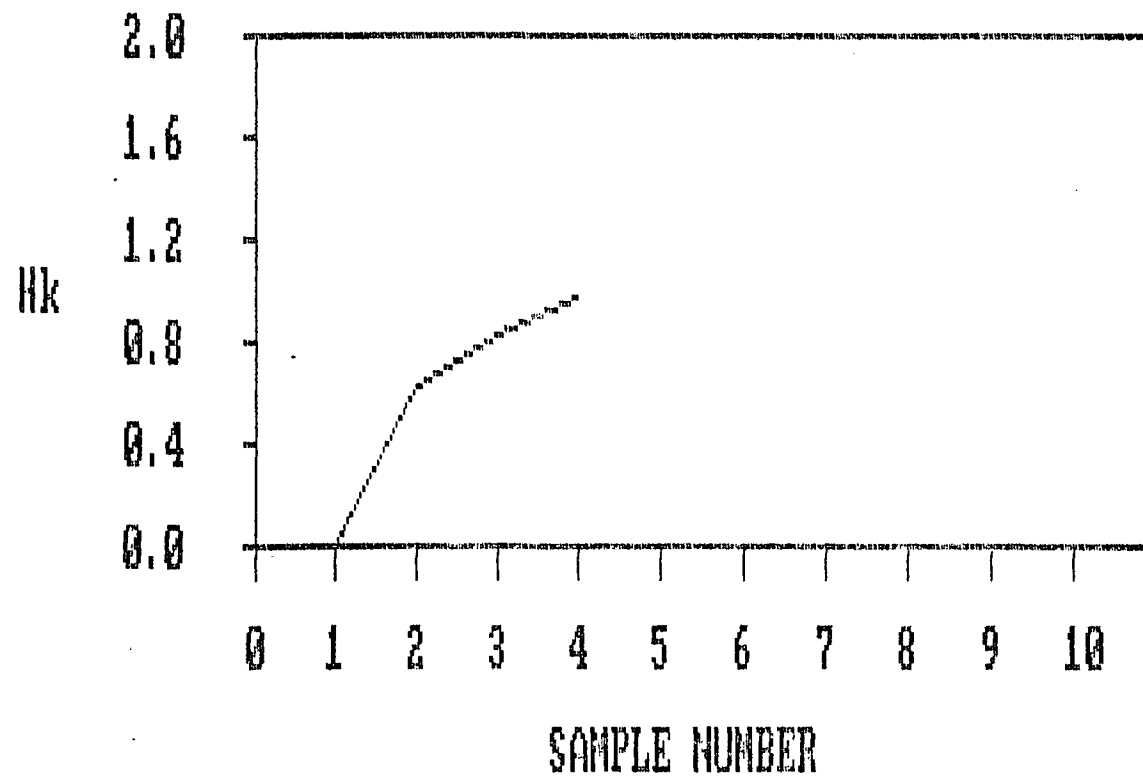
SIMPSON DIVERSITY: 1 .8571429
 INVERSE, SIMPSON DOM.: .9999999 7
 SHANNON DIVERSITY: 1 1.386294
 (MAX. IS IN BASE E)
 BRILLOUIN DIVERSITY: 1 .9790018
 (MAX. IS IN BASE E)
 SHELDON EVENNESS: 1
 HEIF EVENNESS: 1
 (ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK2JL87.SWA PERDIDO KEY STA. T2 SWASH 23 JULY 1987

NUM	SAMP	CUM S	CUM Hk
----	-----	-----	-----
1	3	3	0.48
2	1	4	0.45
3	4	4	0.39
4	2	4	0.36

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Donax variabilis	389
2	Emerita talpoida	48
3	Scoelelepis squamata	2
4	Haustorius sp A	1

TOTAL = 435

ENTER TO CONTINUE?

ESTIMATES

H'	=	.2649173
var (H')	=	5.38379E-05
J'	=	.1910974
var (J')	=	2.801413E-05
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 435
MARGALEF DIVERSITY: 1.137014
MENHINICK DIVERSITY: .1917853
SIMPSON DOMINANCE: .8090471
SIMPSON DIVERSITY: .1909529
INVERSE, SIMPSON DIV.: 1.236022
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .8094861
SIMPSON DIV.: .1905139
INVERSE OF DOMINANCE: 1.235352
SHANNON DIVERSITY*:
.159566 .3674142 .5300667
BRILLOUIN DIVERSITY*:
.1545222 .3558005 .5133116
*BASE 10, BASE E, BASE 2

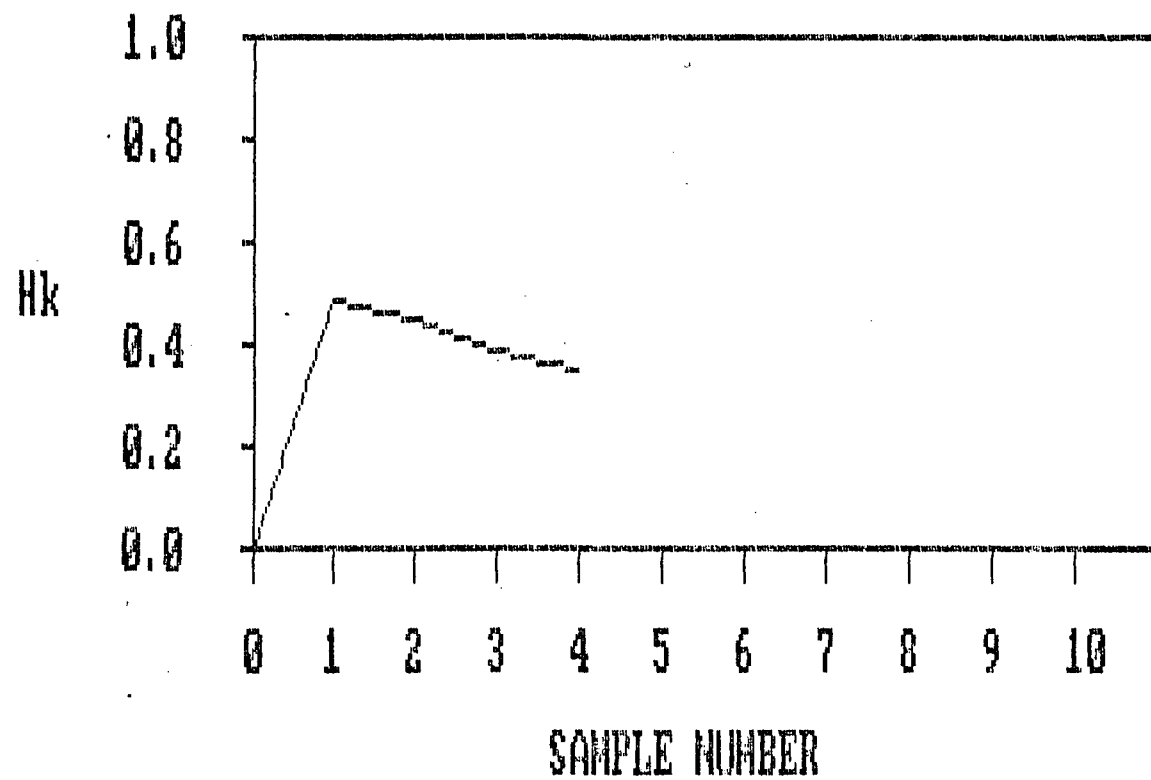
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

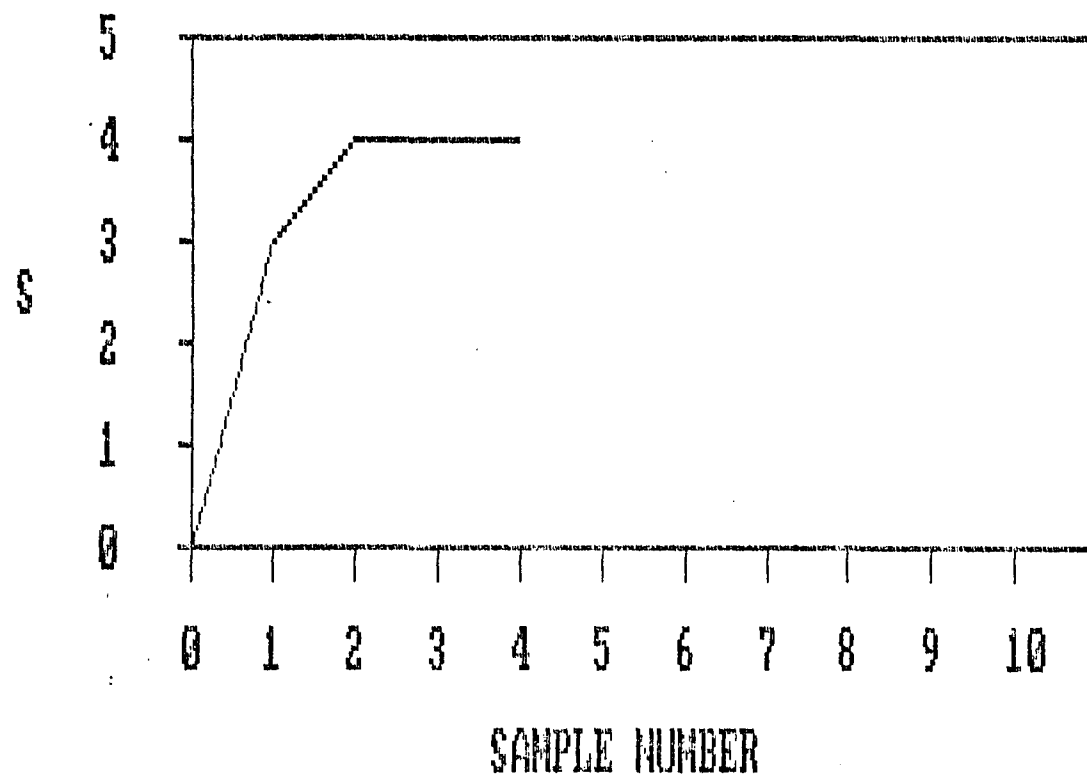
SIMPSON DIVERSITY: .2540186 .7517281
INVERSE, SIMPSON DOM.: .3068695 4.027842
SHANNON DIVERSITY: .2650333 1.386294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2560392 1.389633
(MAX. IS IN BASE E)
SHELDON EVENNESS: .360999
HEIP EVENNESS: .1479986
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: PK2AP88.SWA PERDIDO KEY STA. T2 SWASH 26 APRIL 1988

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	1	0	0.00
2	3	1	0.00
3	2	3	0.48
4	4	3	0.59

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	10
2	Emerita talpoida	3
3	Scoelelepis squamata	1

TOTAL = 14

ENTER TO CONTINUE?

ESTIMATES

H'	=	.66913
var (H')	=	1.810285E-02
J'	=	.6090683
var (J')	=	1.499886E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 3
NO. OF INDIVIDUALS = 14
MARGALEF DIVERSITY: 1.745006
MENHINICK DIVERSITY: .8017837
SIMPSON DOMINANCE: .5274726
SIMPSON DIVERSITY: .4725274
INVERSE, SIMPSON DIV.: 1.695833
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .5612245
SIMPSON DIV.: .4387755
INVERSE OF DOMINANCE: 1.781818
SHANNON DIVERSITY*:
.329602 .7589368 1.094914
BRILLOUIN DIVERSITY*:
.257321 .5925036 .6548019
*BASE 10, BASE E, BASE 2

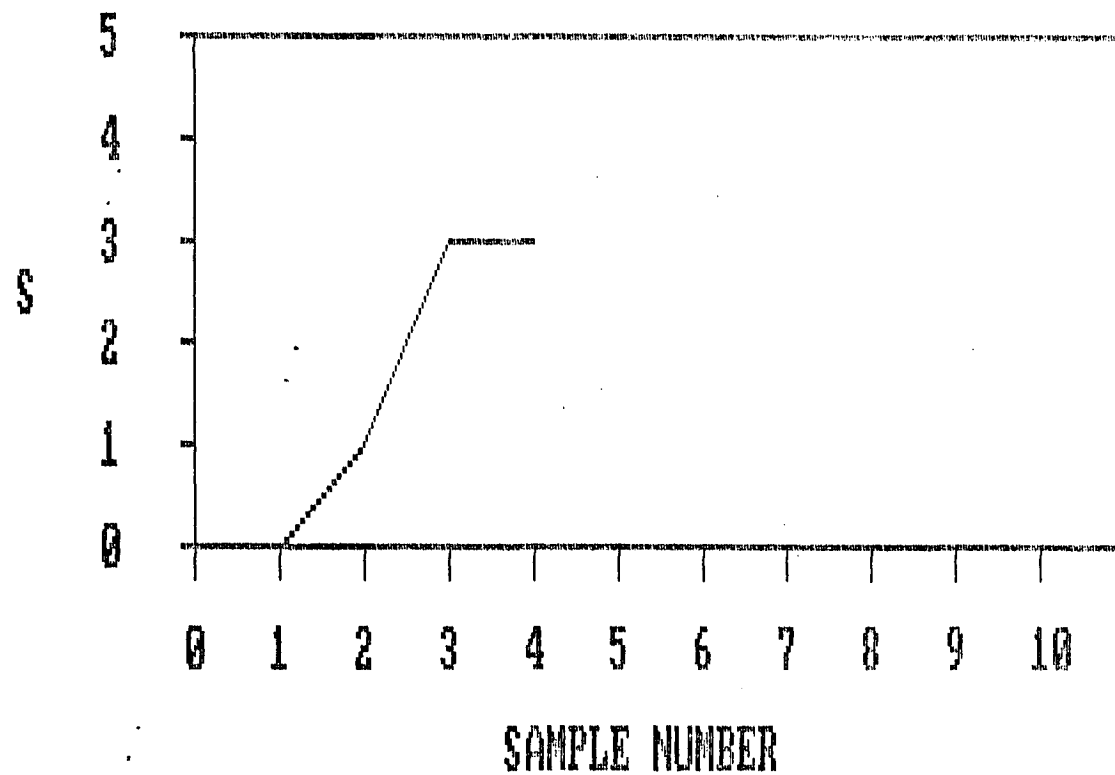
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

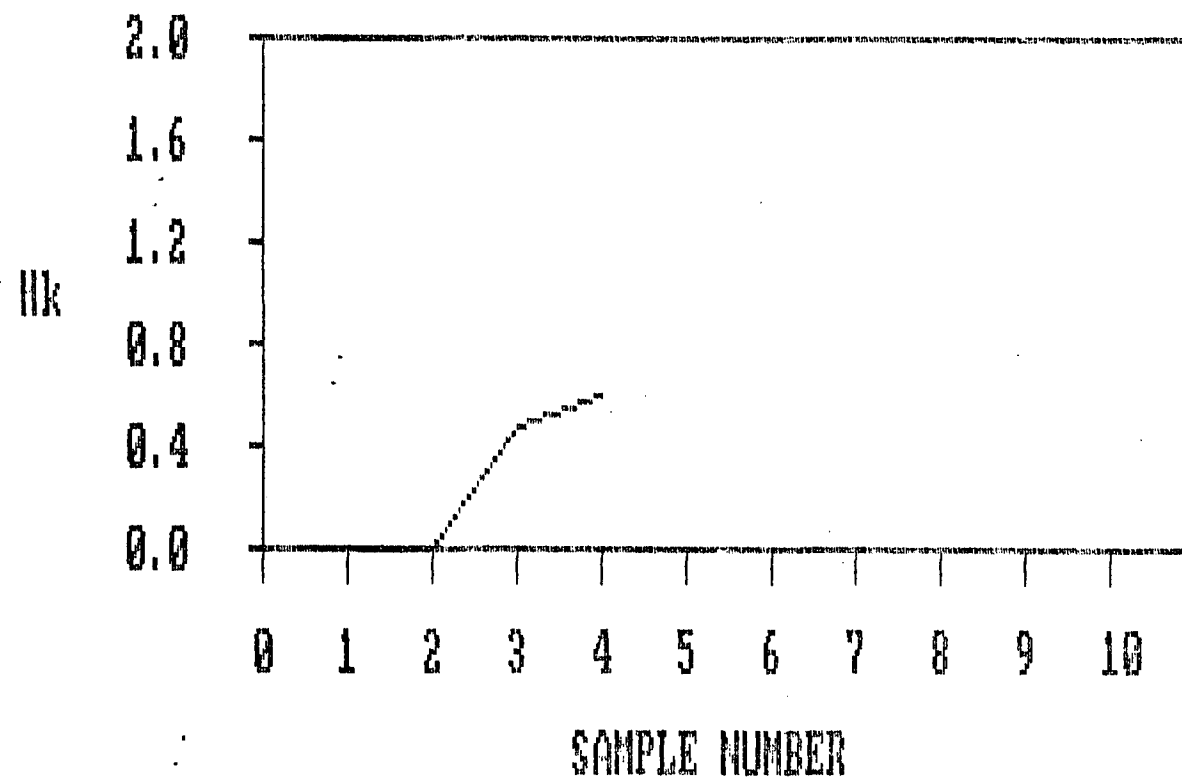
SIMPSON DIVERSITY: .6581632 .7179487
INVERSE, SIMPSON DOM.: .5347222 3.545455
SHANNON DIVERSITY: .690814 1.098612
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .5687735 1.041721
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7120013
HEIP EVENNESS: .568002
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK2JL88.SWA

PERDIDO KEY

TRANSECT 2

SWASH ZONE

27 JULY

NUM

SAMP

CUM S

CUM HK

1

1

1

0.00

2

2

1

0.00

3

4

1

0.00

4

3

1

0.00

ENTER TO CONTINUE?

RANK

TAXON

NUMBER

1

Emerita talpoida

112

TOTAL = 112

ENTER TO CONTINUE?

NUMBER OF SPECIES = 1

NO. OF INDIVIDUALS = 112

MARGALEF DIVERSITY: 0

MENHINICK DIVERSITY: 9.449112E-02

SIMPSON DOMINANCE: 1

SIMPSON DIVERSITY: 0

INVERSE, SIMPSON DIV.: 1

IF NOT A RANDOM SAMPLE:

SIMPSON DOMINANCE: 1

SIMPSON DIV.: 0

INVERSE OF DOMINANCE: 1

SHANNON DIVERSITY*:

0 0 0

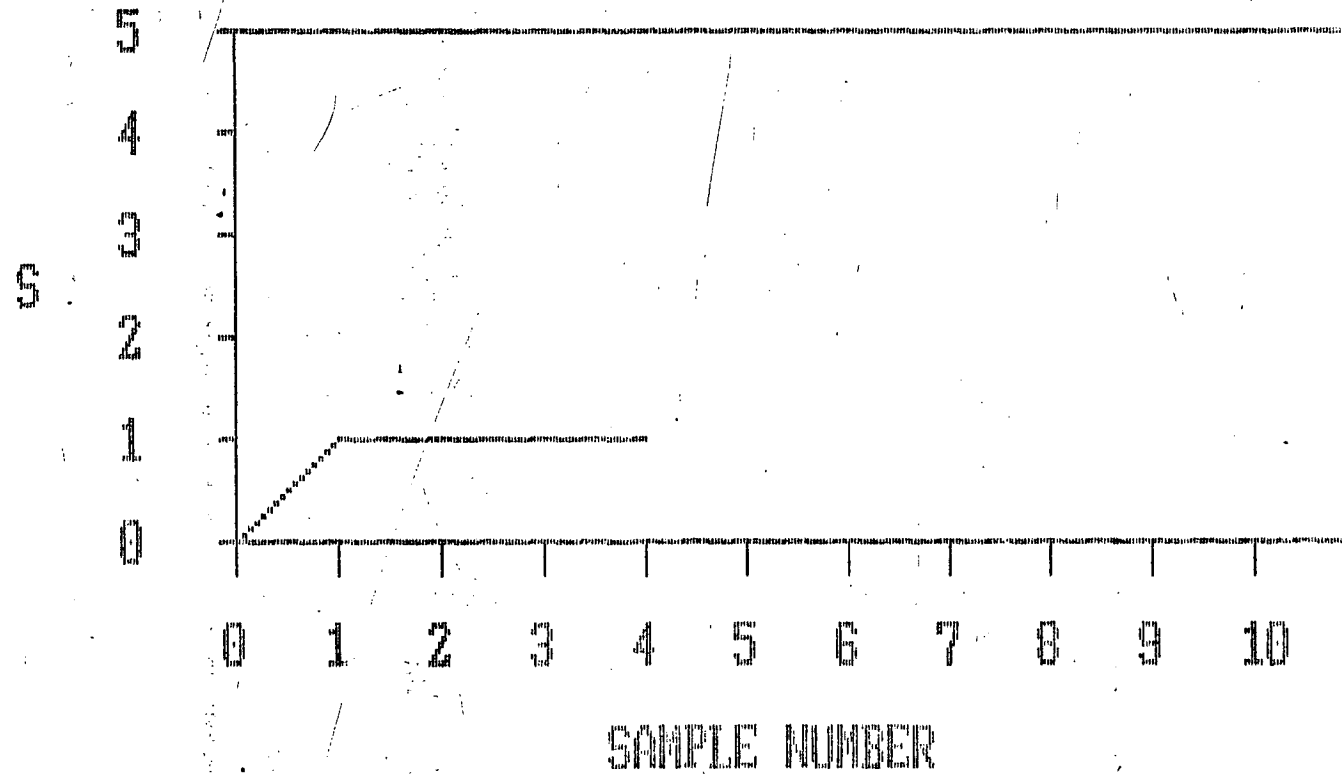
BRILLOUIN DIVERSITY*:

0 0 0

*BASE-10, BASE E, BASE 2

ENTER TO CONTINUE?

SPECIES-AREA CURVE



PERDIDO KEY STATION T2

15 M FROM SHORE

BOX CORER - INFAUNAL

CODE: PK20C86.15M PERDIDO KEY STA.2 15M 8 OCTOBER 1986

NUM	SAMP	CUM S	CUM Hk
1	1	6	1.25
2	3	10	1.44
3	4	13	1.66
4	2	14	1.61

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Leitoscoloplos fragilis	49
2	Ancinus depressus	12
3	Bowmaniella floridana	10
4	Metamysidopsis swifti	7
5	Cyclaspus pustulata	6
6	Scolecopsis squamata	5
7	Microprotopus raneyi	4
8	Exosphaeroma diminutum	1
9	Spilocuma watlingi	1
10	Haustorius sp A	1
11	unid spionid	1
12	Tiron triocellatus	1
13	unid phyllodocid	1
14	unid nemertean	1

TOTAL = 100

ENTER TO CONTINUE?

ESTIMATES

H' =	1.706282
var (H') =	1.796977E-02
J' =	.6465498
var (J') =	2.580149E-03
N =	3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 14
NO. OF INDIVIDUALS = 100
MARGALEF DIVERSITY: 6.500001
MENHINICK DIVERSITY: 1.4
SIMPSON DOMINANCE: .270505
SIMPSON DIVERSITY: .7294949
INVERSE, SIMPSON DIV.: 3.696789
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2778
SIMPSON DIV.: .7222
INVERSE OF DOMINANCE: 3.599712
SHANNON DIVERSITY*:
.7774254 1.790088 2.582551
BRILLOUIN DIVERSITY*:
.6992666 1.610121 2.322913
*BASE 10, BASE E, BASE 2

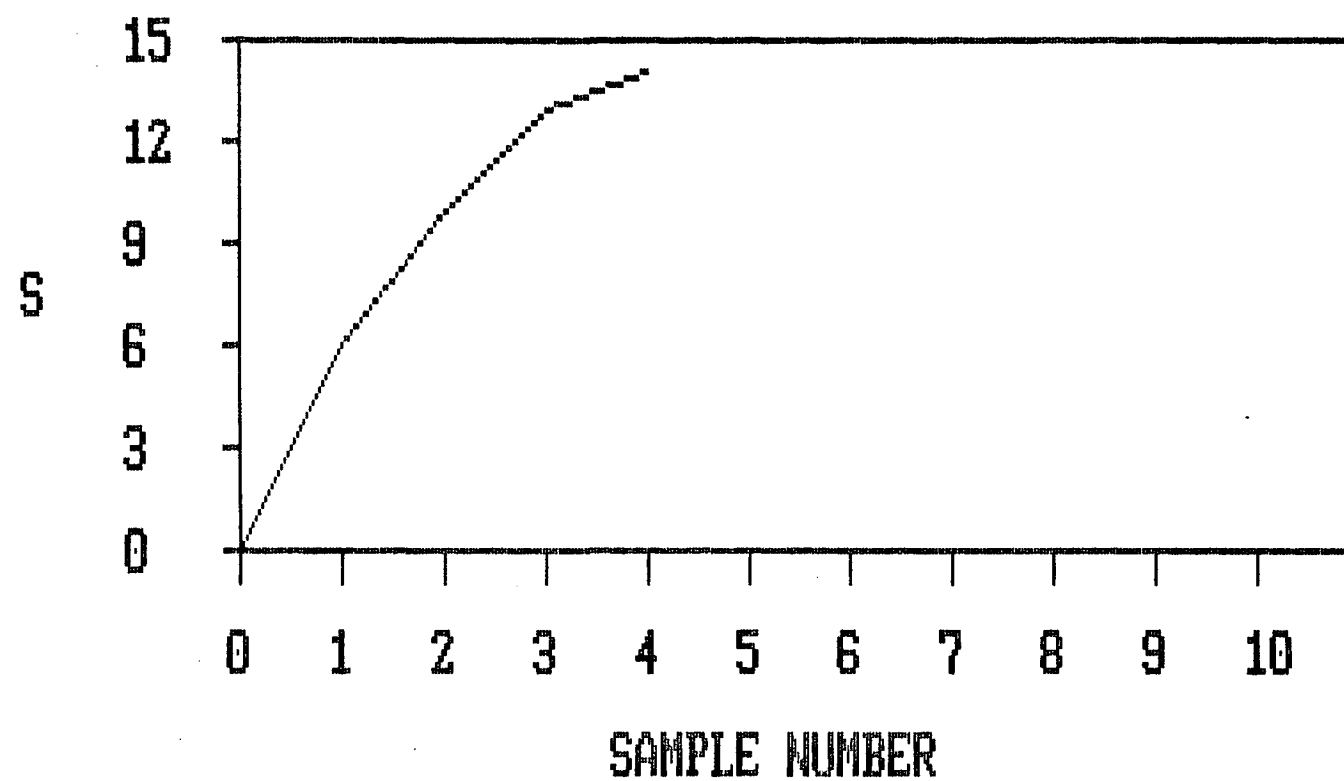
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

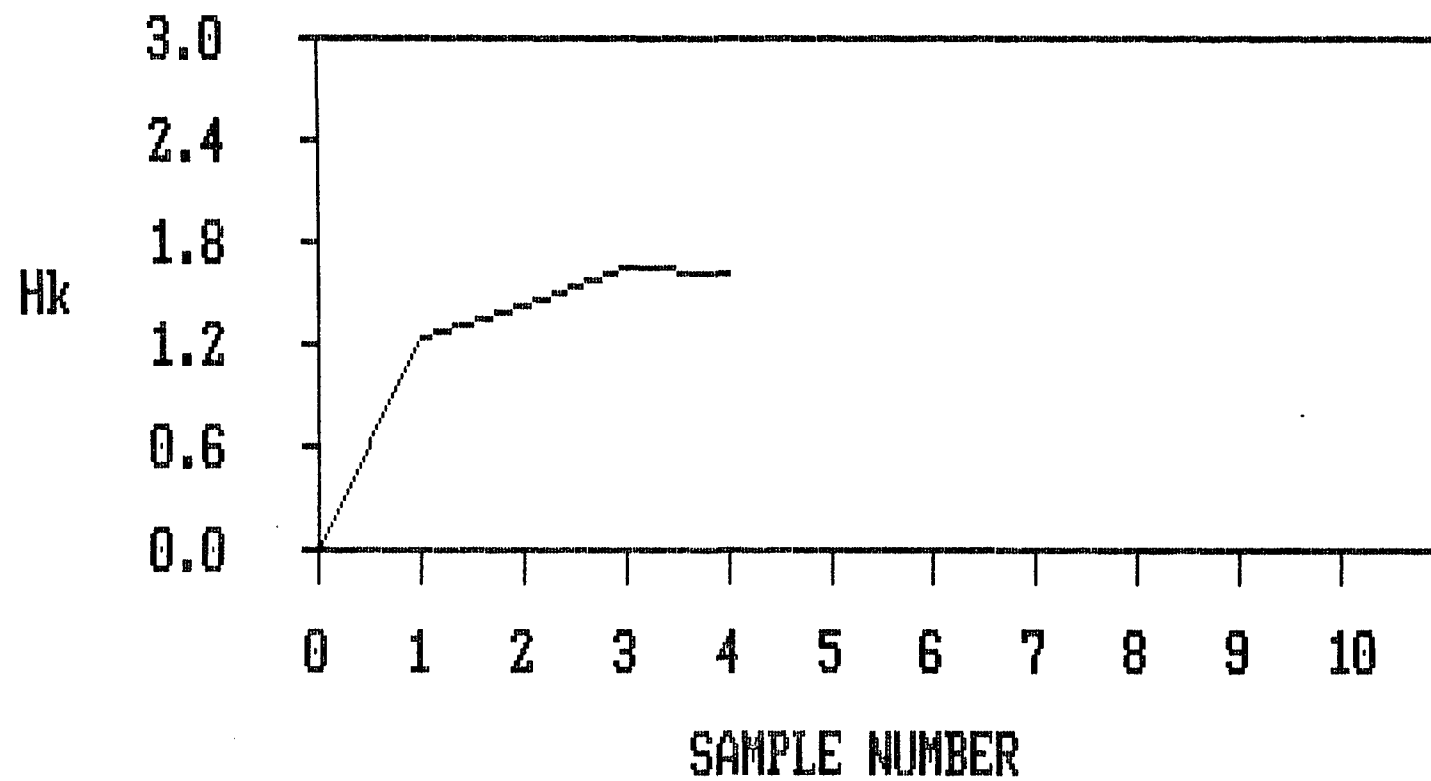
SIMPSON DIVERSITY: .7777538 .937951
INVERSE, SIMPSON DOM.: .2293823 16.11628
SHANNON DIVERSITY: .6783059 2.639057
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .6596422 2.4409
(MAX. IS IN BASE E)
SHELDON EVENNESS: .4278557
HEIP EVENNESS: .3838446
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK2AP87.15M PERDIDO KEY STA.2 15M 10 APRIL 1987

NUM	SAMP	CUM S	CUM Hk
1	4	2	0.35
2	1	3	0.48
3	3	4	0.63
4	2	4	0.57

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Scoelelepis squamata	10
2	Haustorius sp A	1
3	Ancinus depressus	1
4	Spilocuma watlingi	1

TOTAL = 13

ENTER TO CONTINUE?

ESTIMATES

H' = .7212058
var (H') = 9.447602E-02
J' = .52024
var (J') = 4.915987E-02
N = 3

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 13
MARGALEF DIVERSITY: 2.693136
MENHINICK DIVERSITY: 1.1094
SIMPSON DOMINANCE: .5769231
SIMPSON DIVERSITY: .4230769
INVERSE, SIMPSON DIV.: 1.733333
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .6094675
SIMPSON DIV.: .3905326
INVERSE OF DOMINANCE: 1.640777
SHANNON DIVERSITY*:
.3447125 .7937299 1.14511
BRILLOUIN DIVERSITY*:
.248809 .572904 .8265258
*BASE 10, BASE E, BASE 2

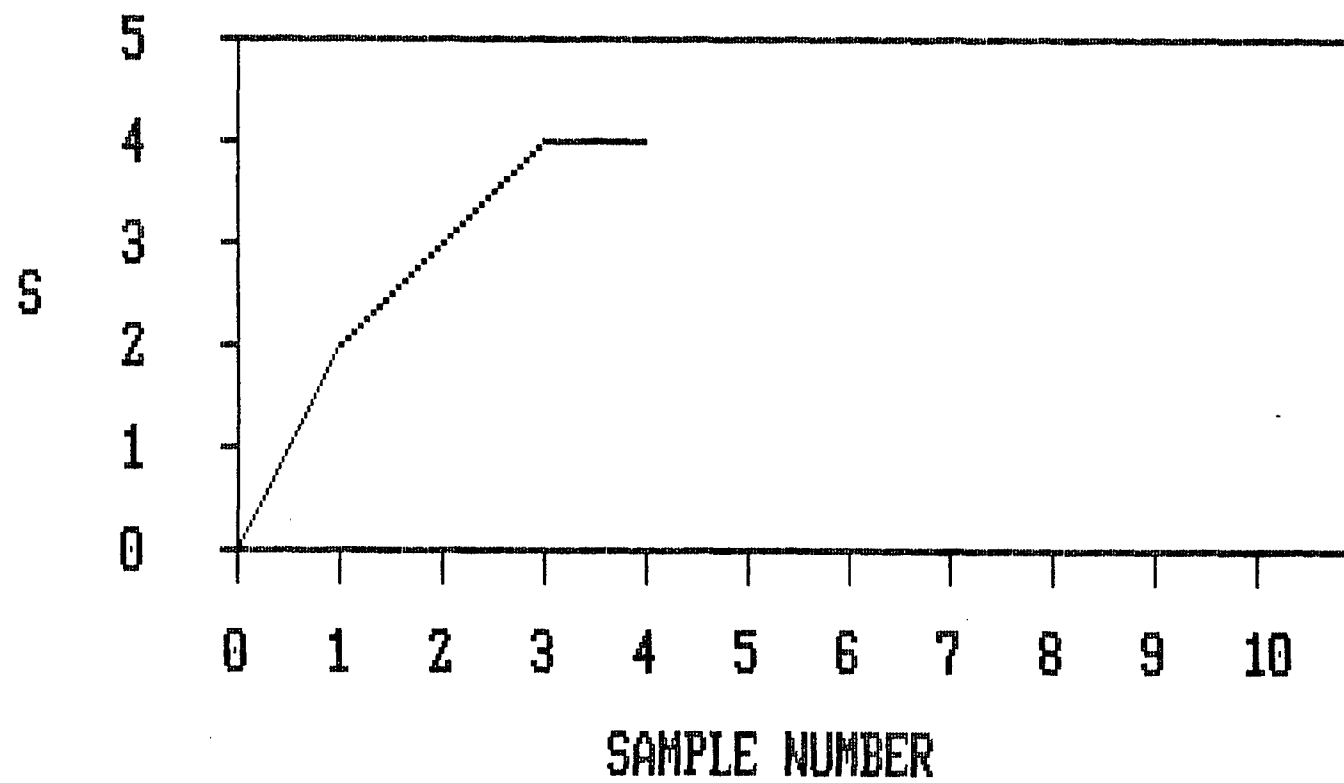
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

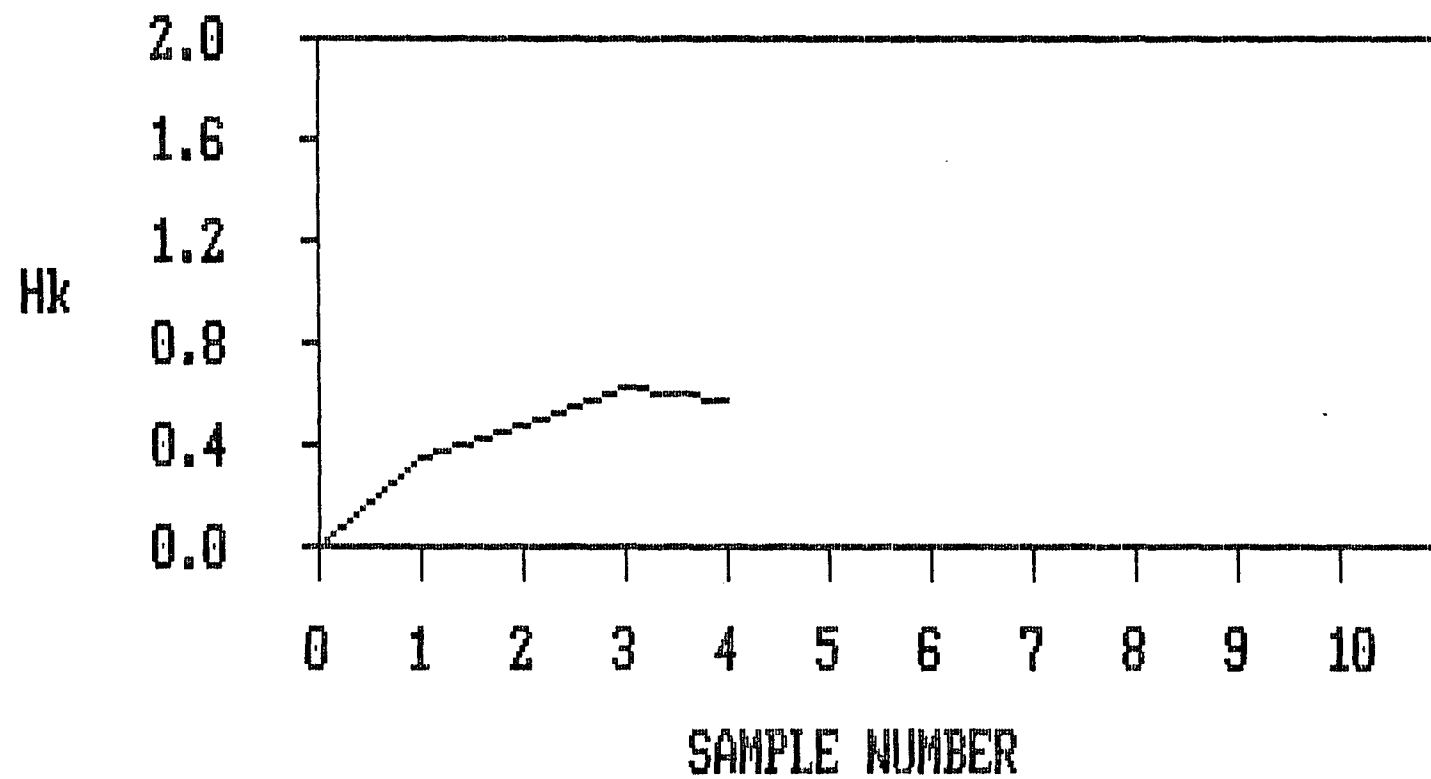
SIMPSON DIVERSITY: .5207101 .8125
INVERSE, SIMPSON DOM.: .325 5.333334
SHANNON DIVERSITY: .5725551 1.386294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .4952439 1.156812
(MAX. IS IN BASE E)
SHELDON EVENNESS: .5529075
HEIP EVENNESS: .4038767
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK20087.15M PERDIDO KEY STA. T2 15M 29 OCTOBER 1987

NUM	SAMP	CUM S	CUM HK
----	----	-----	-----
1	2	5	0.96
2	4	8	1.30
3	3	9	1.36
4	1	11	1.48

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Haustorius sp A	10
2	Pinnixa chacei	3
3	Ancinus depressus	2
4	Scoelelepis squamata	1
5	Bowmaniella floridana	1
6	Lepidopa benedicti	1
7	Branchiostoma sp	1
8	Nephtys bucera	1
9	Leitoscoloplos fragilis	1
10	Parahaustorius sp A	1
11	Lepidactylus sp A	1

TOTAL = 23

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.817407
var (H')	=	1.575947E-04
J'	=	.7579175
var (J')	=	2.740824E-05
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 11
NO. OF INDIVIDUALS = 23
MARGALEF DIVERSITY: 7.343611
MENHINICK DIVERSITY: 2.293659
SIMPSON DOMINANCE: .1936759
SIMPSON DIVERSITY: .8063241
INVERSE, SIMPSON DIV.: 5.163265
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2287335
SIMPSON DIV.: .7712665
INVERSE OF DOMINANCE: 4.371901
SHANNON DIVERSITY*:
.8385354 1.930799 2.735554
BRILLOUIN DIVERSITY*:
.6423282 1.479015 2.133768
*BASE 10, BASE E, BASE 2

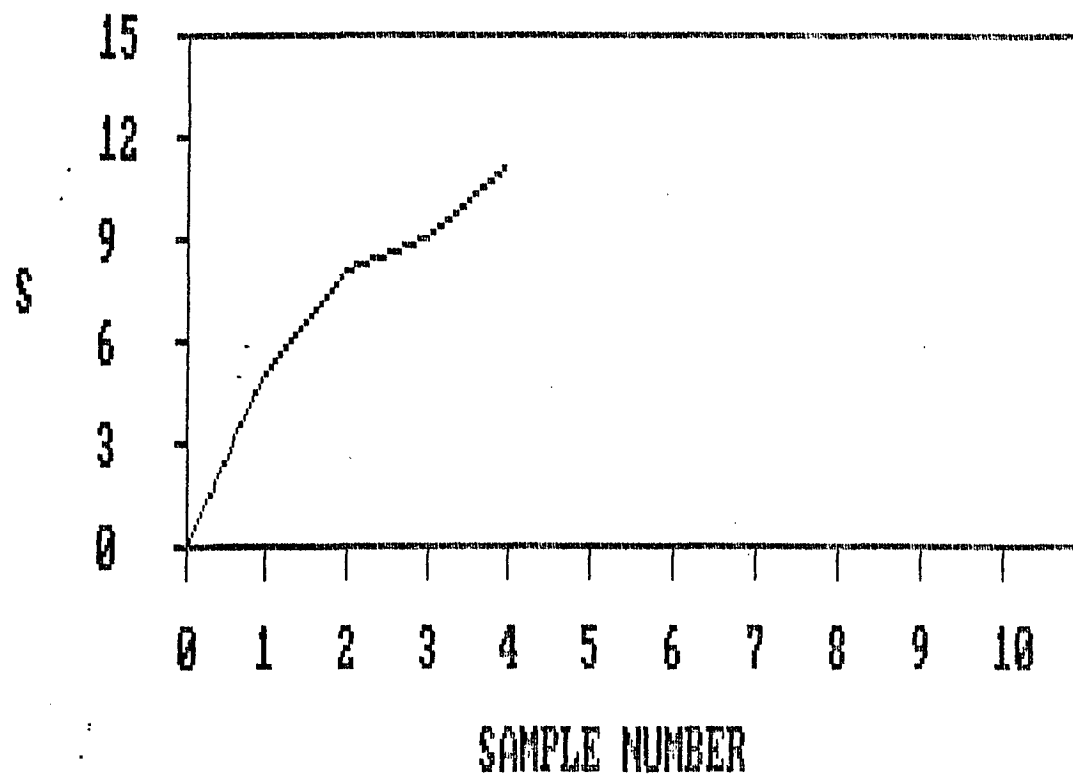
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

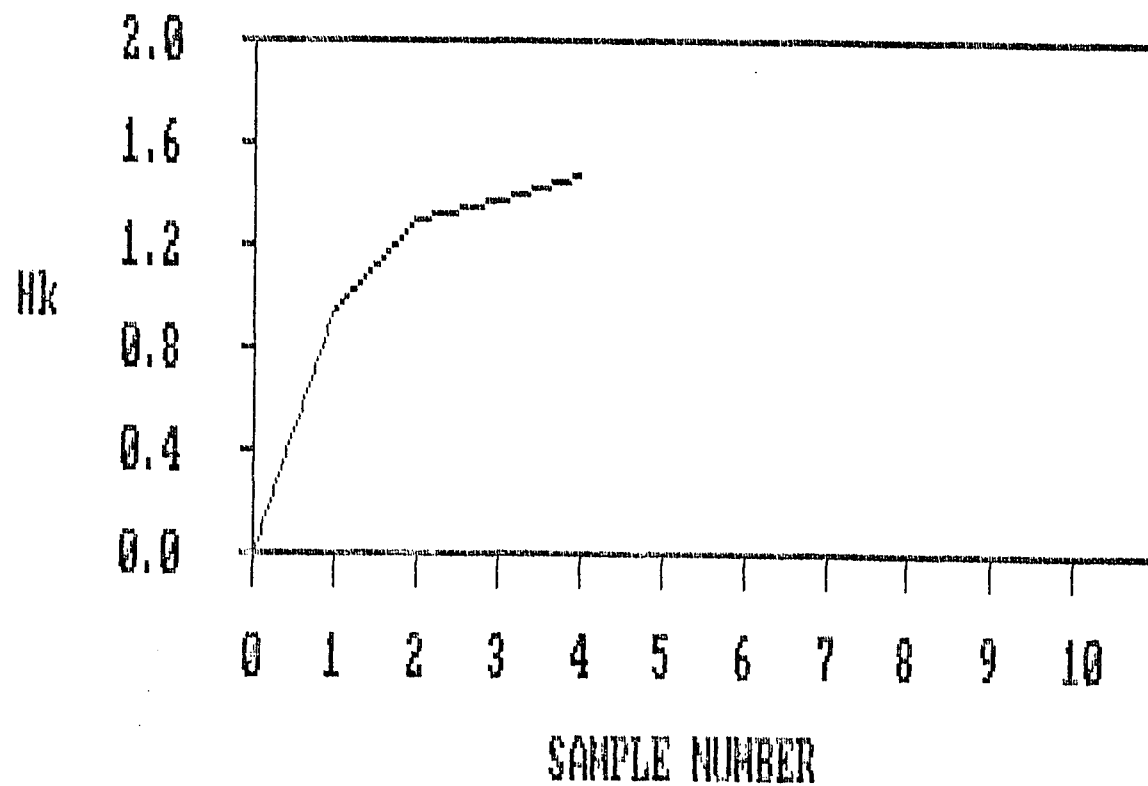
SIMPSON DIVERSITY: .8483932 .9504132
INVERSE, SIMPSON DOM.: .2560297 20.16667
SHANNON DIVERSITY: .8052058 2.397895
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7751975 1.907921
(MAX. IS IN BASE E)
SHELDON EVENNESS: .6268198
HEIP EVENNESS: .5895017
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

SPECIES-AREA CURVE



CUMULATIVE DIVERSITY CURVE



CODE: PK2JL87.15M PERDIDO KEY STA. T2 15M 23 JULY 1987

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	4	4	0.98
2	2	6	1.29
3	3	7	1.41
4	1	7	1.37

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Ancinus depressus	11
2	Emerita talpoida	4
3	Scoelelepis squamata	4
4	Bowmaniella floridana	3
5	Haustorius sp A	3
6	unid polychaete	1
7	Nephtys bucera	1

TOTAL = 27

ENTER TO CONTINUE?

ESTIMATES

H'	=	1.402282
var (H')	=	5.549204E-02
J'	=	.7206305
var (J')	=	1.465498E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 7
NO. OF INDIVIDUALS = 27
MARGALEF DIVERSITY: 4.191807
MENHINICK DIVERSITY: 1.347151
SIMPSON DOMINANCE: .2079772
SIMPSON DIVERSITY: .7920228
INVERSE, SIMPSON DIV.: 4.808219
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .2373114
SIMPSON DIV.: .7626886
INVERSE OF DOMINANCE: 4.213873
SHANNON DIVERSITY*:
.7226775 1.664027 2.400683
BRILLOUIN DIVERSITY*:
.5970036 1.374652 1.983203
*BASE 10, BASE E, BASE 2

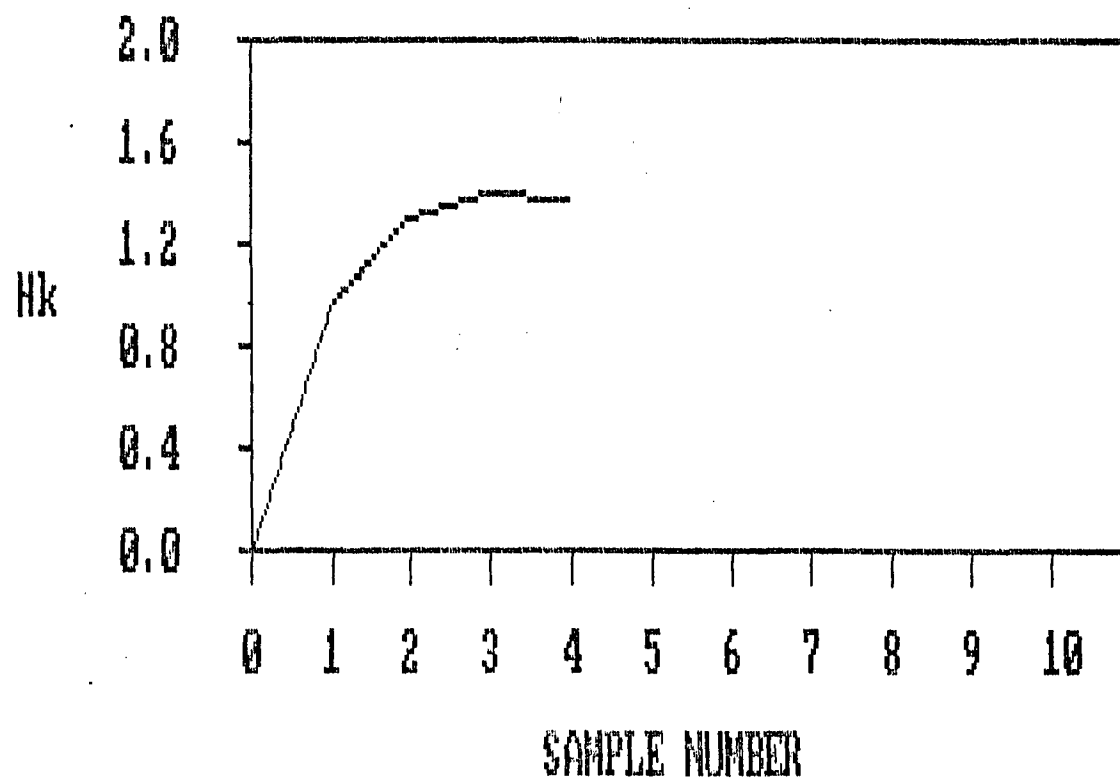
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

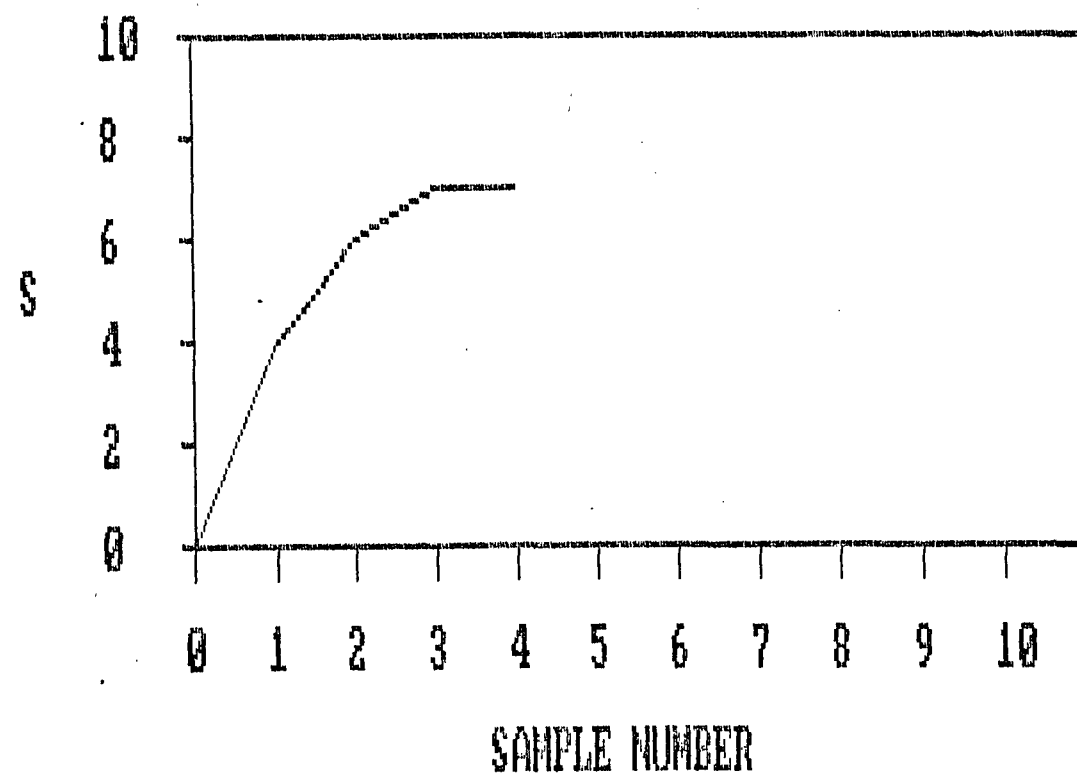
SIMPSON DIVERSITY: .8898034 .89011
INVERSE, SIMPSON DOM.: .5283758 9.099999
SHANNON DIVERSITY: .8551405 1.94591
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .7302344 1.88248
(MAX. IS IN BASE E)
SHELDON EVENNESS: .7543616
HEIP EVENNESS: .7134218
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

CUMULATIVE DIVERSITY CURVE



SPECIES-AREA CURVE



CODE: PK2AP88.15M PERDIDO KEY STA. T2 15M 26 APRIL 1988

NUM	SAMP	CUM S	CUM Hk
----	----	-----	-----
1	4	2	0.35
2	1	3	0.39
3	3	3	0.24
4	2	4	0.31

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
----	-----	-----
1	Scoelelepis squamata	44
2	Haustorius sp A	2
3	unid polychaete	1
4	Nemopsis cf bachei	1

TOTAL =		48

ENTER TO CONTINUE?

ESTIMATES

H'	=	.5985549
var (H')	=	.1762685
J'	=	.4317661
var (J')	=	9.171994E-02
N	=	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 4
NO. OF INDIVIDUALS = 48
MARGALEF DIVERSITY: 1.784896
MENHINICK DIVERSITY: .5778503
SIMPSON DOMINANCE: .839539
SIMPSON DIVERSITY: .160461
INVERSE, SIMPSON DIV.: 1.19113
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .8428819
SIMPSON DIV.: .1571181
INVERSE OF DOMINANCE: 1.186406
SHANNON DIVERSITY*:
.1622001 .3734795 .5388171
BRILLOUIN DIVERSITY*:
.1326725 .3054897 .4407285
*BASE 10, BASE E, BASE 2

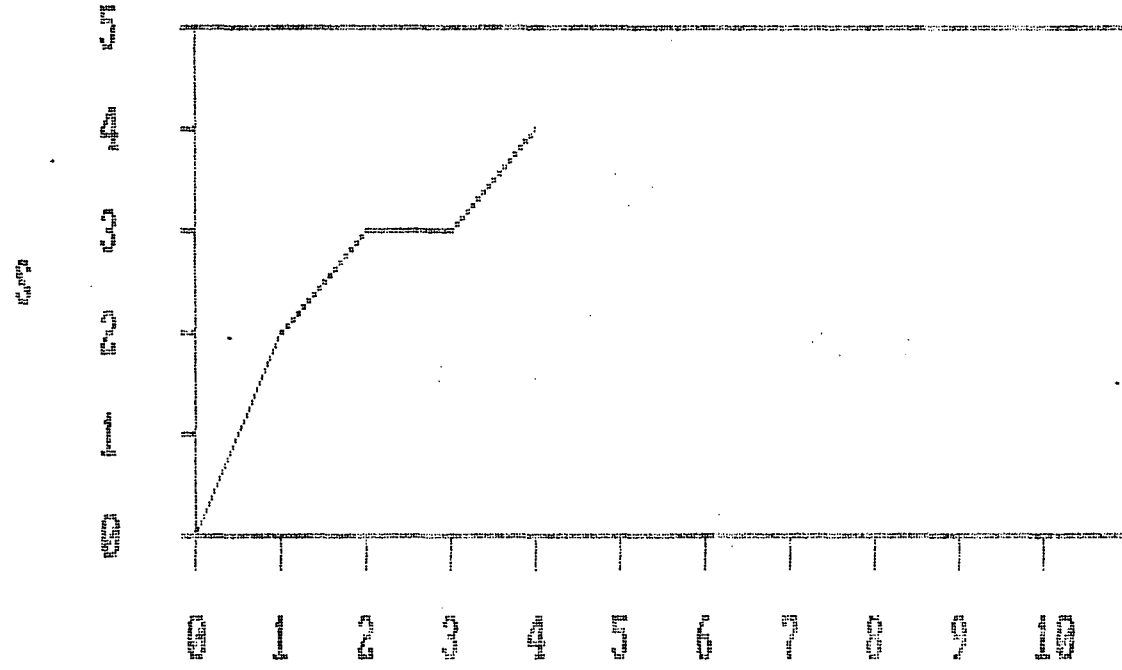
ENTER TO CONTINUE?

EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

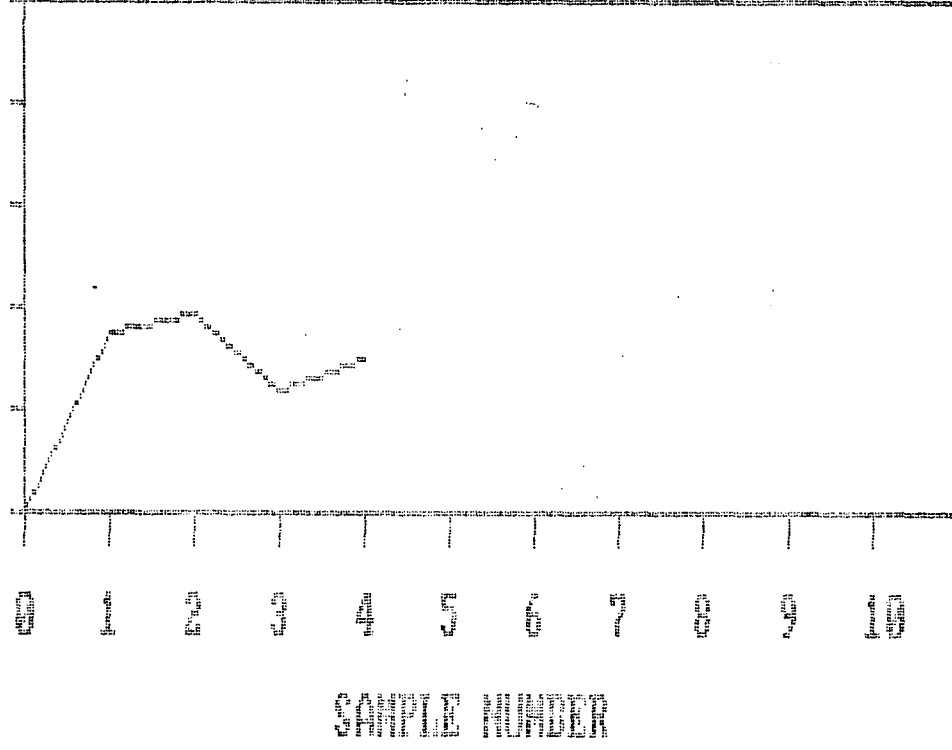
SIMPSON DIVERSITY: .2094907 .7659575
INVERSE, SIMPSON DOM.: .2787751 4.272728
SHANNON DIVERSITY: .2694085 1.386294
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .2414737 1.265105
(MAX. IS IN BASE E)
SHELDON EVENNESS: .3631952
HEIP EVENNESS: .1509269
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

2000-2001



2000-2001



CODE: PK2JL88.15M

PERDIDO KEY

TRANSECT 2 15M

27 JULY 1988

NUM	SAMP	CUM S	CUM HK
1	3	3	0.60
2	2	4	0.94
3	1	6	1.28

ENTER TO CONTINUE?

RANK	TAXON	NUMBER
1	Haustorius sp A	7
2	Pagurus longicarpus	4
3	Ancinus depressus	4
4	Scolecopsis squamata	3
5	Spilocuma salomani	1
6	Synchelidium americanum	1

TOTAL = 20

ENTER TO CONTINUE?

ESTIMATES

H' =	1.455629
var (H') =	2.771711E-02
J' =	.812402
var (J') =	8.633534E-03
N =	2

ENTER TO CONTINUE?

NUMBER OF SPECIES = 6
NO. OF INDIVIDUALS = 20
MARGALEF DIVERSITY: 3.843109
MENHINICK DIVERSITY: 1.341641
SIMPSON DOMINANCE: .1894737
SIMPSON DIVERSITY: .8105263
INVERSE, SIMPSON DIV.: 5.277778
IF NOT A RANDOM SAMPLE:
SIMPSON DOMINANCE: .23
SIMPSON DIV.: .77
INVERSE OF DOMINANCE: 4.347826
SHANNON DIVERSITY*:
.6928535 1.595354 2.301609
BRILLOUIN DIVERSITY*:
.557256 1.283129 1.851164
*BASE 10, BASE E, BASE 2

ENTER TO CONTINUE?

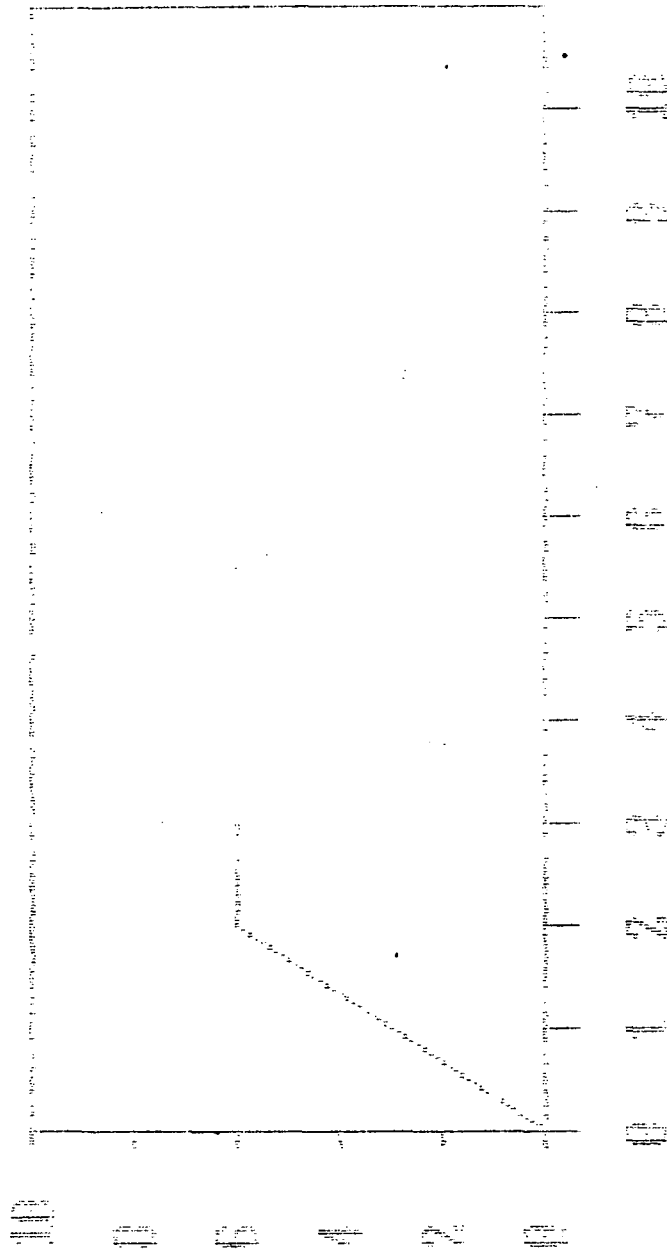
EACH EVENNESS MEASURE IS
FOLLOWED BY MAX. DIV.:

SIMPSON DIVERSITY: .924 .877193
INVERSE, SIMPSON DOM.: .6481482 8.142857
SHANNON DIVERSITY: .8903841 1.791759
(MAX. IS IN BASE E)
BRILLOUIN DIVERSITY: .8245549 1.556148
(MAX. IS IN BASE E)
SHELDON EVENNESS: .8216789
HEIF EVENNESS: .7860147
(ABOVE TWO USE BASE E)

ENTER TO CONTINUE?

1. The first part of the report is a summary of the work done during the year. It is divided into two main sections: a general summary and a detailed account of the work done in each of the four departments.

REPORT ON THE WORK OF THE



REPORT ON THE WORK OF THE

THE UNIVERSITY OF CHICAGO



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100