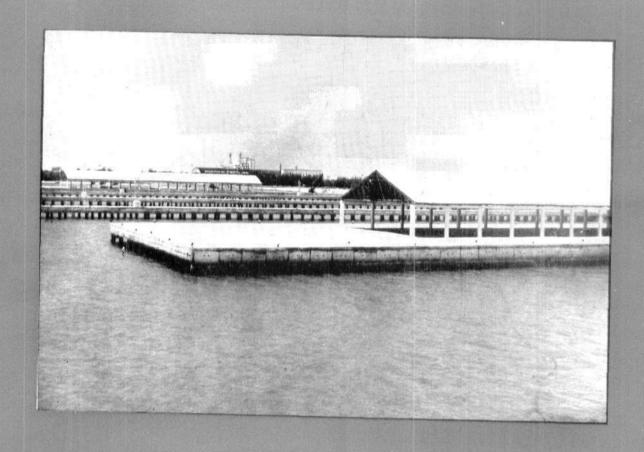


MARINE FISHERIES INFORMATION SERVICE



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CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
COCHIN, INDIA

INDIAN COUNCIL OF AGRICULTURAL RESEARCH

MARINE FISH CALENDAR

V. KAKINADA*

V. Sriramachandra Murty, M. K. Bandyopadhyay and P. Ramalingam

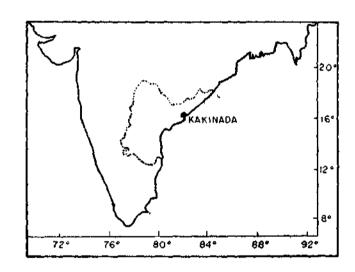
Kakinada Research Centre of CMFRI, Kakinada

Introduction

The Research Centre of the Central Marine Fisheries Research Institute at Kakinada has been carrying out investigations on various exploited marine fisheries resources of the region. As a part of these investigations, data on effort and catches of different groups of fishes have been collected from important landing centres. Commercial trawling off Kakinada was started in 1964 and since then, monitoring of catches has been carried out on a regular basis and the details of effort and catches of different groups during the period 1969-78 were published (Mar. Fish. Infor. Serv., T&E Ser., No. 31, 1981). The mechanised boats use shrimp trawl with a cod end mesh size of 15-20 mm and there is fishing round the year.

Data of the period 1981-'85 from the trawlers and 1980-'82 from indigenous gear and published information on different species from Kakinada are used for the present fish calendar. Data on effort and catch from each gear separately, of the corresponding months are pooled and the catch per unit (boat/gear) effort for each month calculated. The data are analysed separately for trawl catch from Kakinada and gill net catch from Uppada. The data of shore seine, boat seine and drag net from Uppada are pooled and considered under the head "other units".

Since a great majority of fish families are represented by several species, data on catches are collected familywise. In the case of dominant families, however, detailed data on species composition and biology of dominant species are available. In such cases information pertaining to different species is provided in the Calendar. In case where imformation on species is not available, group-wise data under respective families are given. In certain cases family-wise data are not available and in these cases information on 2-3 closely related families are given together.



CARANGIDAE

Popular English Name : Scad/Horse mackerel/

Trevallies

Vernacular Name (Telegu): 'Paralu'/'Pilladugulu'

Annual average catch : 1,779 t
Percentage in total catch : 13.8

Fishing methods and

their contribution : Trawl net : 10.2%

Gill net : 3.5% Other units : 5.5%

^{*}Consolidated by N. Gopinatha Menon and K. Balachandran, CMFR1, Cochin.

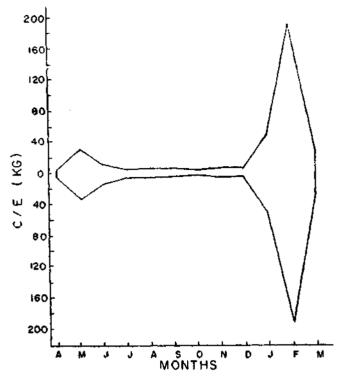


Fig. 1. Seasonal abundance of carangids in trawl catch.

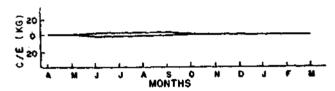


Fig. 2. Seasonal abundance of carangids in gill net catch.

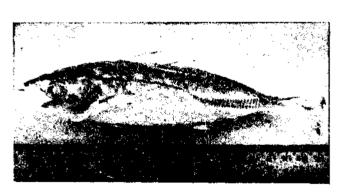


Fig. 3. Decapterus russelli,

Scientific Name : Decapterus russelli Vernacular Name : 'Pilladugulu'

Gear : Trawl net

Percentage in the catch of

the group : 83.0

Peak period of occurrence : Jan. - Apr. Depth of occurrence : 10 - 80 m

Length range in

commercial fishery : 52 - 217 mm

Size at first maturity : 150 mm Spawning season : Dec. - Jun.

CARCHARHINIDAE

Popular English Name : Sharks
Vernacular Name (Telugu) : 'Sorralu'
Annual average catch : 253 t
Percentage in total catch : 2.0

Fishing methods and

their contribution : Gill net : 13.2%

Trawl net : 0.3%

of accommon a Ech May and

Peak period of occurrence: Feb. - May and

Oct. - Nov.

Depth of occurrence : 5 - 50 m

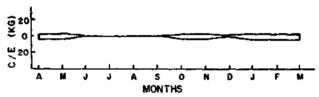


Fig. 4. Seasonal abundance of sharks in trawl catch.

CHIROCENTRIDAE

Popular English Name : Wolf herring Vernacular Name (Telugu) : 'Mulluvala'

Annual average catch : 54 t
Percentage in total catch : 0.4

Fishing methods and

their contribution : Gill net : 3.6%

Peak period of occurrence : Jul. - Sep. Depth of occurrence : 3 - 70 m



Fig. 5. Seasonal abundance of wolf herrings in gill net catch.

CLUPEIDAE

Popular English Name : Sardines/Lesser sardines/

Shad

Vernacular Name (Telugu) : 'Kavallu' Annual average catch : 462 t Percentage in total catch : 3.6

Fishing methods and

their contribution : Gill net : 11.5% Trawl net : 1.6%

Other gears: 4.0%

Peak period of occurrence : Jan. - Nov.

Depth of occurrence : I - 60 m

(ý 20)

MONTHS

Fig. 6. Seasonal abundance of Thryssa in trawl catch.

© 20 W O N D J F M MONTHS

Fig. 7. Seasonal abundance of Thryssa in other units.

9 20 A M J J A S O N D J F M MONTHS

Fig. 8. Seasona abundance of lesser sardines in trawl catch.

S 20 W 20 A M J A S O N D J F M MONTHS

Fig. 9. Seasonal abundance of lesser sardines in gill net catch.

20 0 N D J F M MONTHS

Fig. 10. Seasonal abundance of shads in gill net catch.

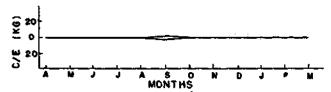


Fig. 11. Seasonal abundance of other clupieds in gill net catch.

CYNOGLOSSIDAE, SOLEIDAE, PSETTODIDAE AND BOTHIDAE

Popular English Name : Flat fish Vernacular Name (Telugu) : 'Tamnaratta'

Annual average catch : 318 t Percentage in total catch : 2.5

Fishing methods and

their contribution : Trawl net : 1.9%

Peak period of occurrence : Dec. - May Depth of occurrence : 5 - 50 m

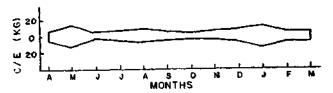


Fig. 12. Seasonal abundance of flat fishes in trawl catch.

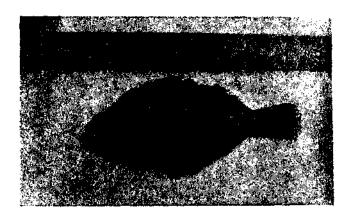


Fig. 13, Psettodes erumei.

Scientific Name : Psettodes erumei
Vernacular Name : 'Yeddunalika'
Gear : Trawl net

Percentage in the catch

of the group : 100

Peak period of occurrence: Dec. - Feb. Depth of occurrence: 5 - 50 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

DUSSUMIERIDAE

Popular English Name : Rainbow sardine Vernacular Name (Telugu) : 'Moravalu'

Vernacular Name (Telugu): 'Mor Annual average catch: 20 t Percentage in total catch: 0.1

Fishing methods and

their contribution : Gill net : 1.1%

Other units: 0.9%



Fig. 14. Dussumleria acuta.

Scientific Name : Dussumierta acuta

Vernacular Name : 'Moravalu'

Gear : Gill net/Other units

Percentage in the catch

of the group : 100

Peak period of occurrence : Oct. - Dec. Depth of occurrence : Upto 50 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

Engraulidae

Popular English Name : White bait/Anchovies Vernacular Name (Telugu) : 'Nettallu'/'Poravalu'

Annual average catch : 1,104 t
Percentage in total catch : 8.6

Fishing methods and

their contribution : Trawl net : 6.1%

Gill net : 2.0% Other units : 12.5%

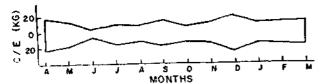


Fig. 15. Seasonal abundance of white bait in trawl catch.

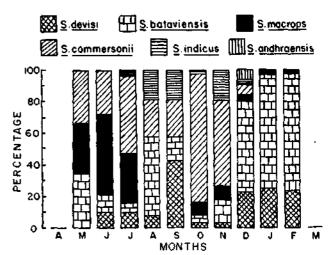


Fig. 16. Monthwise species composition of white bait in trawle catch

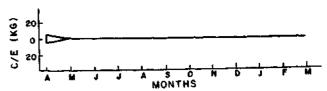


Fig. 17. Seasonal abundance of white bait in other units.

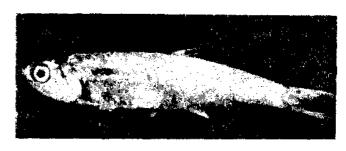


Fig. 18. Stolephorus bataviensis.

Scientific Name : Stolephorus bataviensis

Vernacular Name : 'Nettallu'

Gear : Trawl net/Gill net/

Other units

Percentage in the catch

of the group : 41.1

Peak period of occurrence: Jan.-May and Jul. -Sep-

Depth of occurrence : Upto 50 m

Length range in

commercial fishery : 40 - 109 mm

Size at first maturity : —
Spawning season : —



Fig. 19. Stolephorus commersonii.

Scientific Name : Stolephorus commersonii

Vernacular Name : 'Nettallu'

Gear : Trawl net/Gill net/

Other units

Percentage in the catch

of the group : 23.4

Peak period of occurrence: Jan.-May and Jul.-Sep.

Depth of occurrence : Upto 50 m

Length range in

commercial fishery : 70 - 139 mm

Size at first maturity : --

Spawning season : -

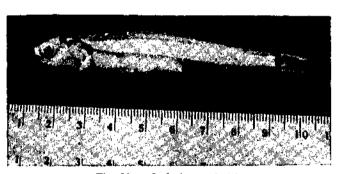


Fig. 20. Stolephorus devisi.

Scientific Name : Stolephorus devisi

Vernacular Name : 'Nettallu'

Gear : Trawl net/Gill net/

Other units

Percentage in the catch

of the group : 15.9

Peak period of occurrence: Jan.-May and Jul. -Sep.

Depth of occurrence : Upto 50 m

Length range in

commercial fishery : 55 - 94 mm

Size at first maturity : —
Spawning season : —

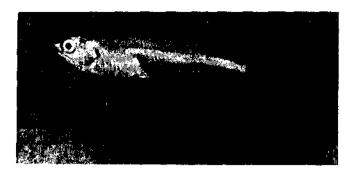


Fig. 21. Stolephorus macrops.

Scientific Name : Stolephorus macrops

Vernacular Name : 'Nettallu'

Gear : Trawl net/Gill net/

Other units

Percentage in the catch

of the group : 15.0

Peak period of occurrence: Jan.-May and Jul.-Sep.

Depth of occurrence : Upto 50 m

Length range in

commercial fishery : 50 - 100 mm

Size at first maturity :

Spawning season

HARPODONTIDAE

Popular English Name : Bombay duck Vernacular Name (Telugu) : 'Vanamattalu'

Annual average catch : 155 t Percentage in total catch : 1.2

Fishing methods and

their contribution : Trawl net : 0.9%

Gill net : 0.4% Other units : 0.3%

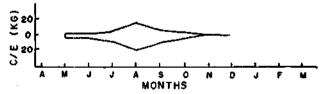


Fig. 22. Seasonal abundance of Bombay duck in trawl catch.

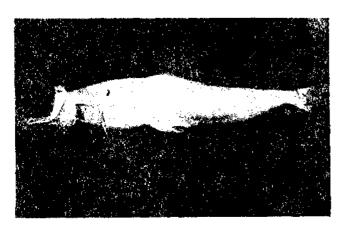


Fig. 23. Harpodon nehereus.



Fig. 25. Lactarius lactarius.

Scientific Name : Harpodon nehereus
Vernacular Name : 'Vanamattalu'
Gear : Trawl net/Gill net/

Other units

Percentage in the catch

of the group : 100

Peak period of occurrence : May - Oct. Depth of occurrence : Upto 60 m

Length range in

commercial fishery : 170 - 300 mm

Size at first maturity : —
Spawning season : —

LACTARIDAE

Popular English Name : White fish Vernacular Name (Telugu) : 'Sudumulu'

Annual average catch : 85 t Percentage in total catch : 0.7

Fishing methods and

their contribution : Trawl net : 0.5%

Scientific Name : Lactarius lactarius

Vernacular Name : 'Sudumulu' Gear : Trawl net

Percentage in the catch

of the group : 100

Peak period of occurrence : Jul. - Sep. Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

LEIOGNATHIDAE

Popular English Name : Silver bellies/Pony fish

Vernacular Name (Telugu): 'Karalu'
Annual average catch: 1,347 t
Percentage in total catch: 10.5

Fishing methods and

their contribution : Trawl net : 7.9%

Other units: 6.7%

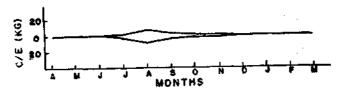


Fig. 24. Seasonal abundance of Lactorius in trawl catch.

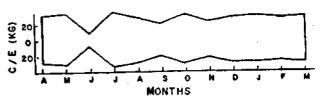


Fig. 26. Seasonal abundance of silver bellies in trawl catch.

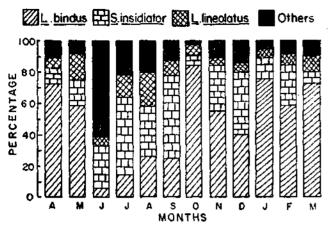


Fig. 27. Monthwise species composition of silver bellies in trawl net.

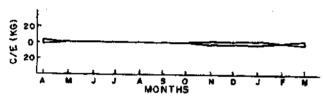


Fig. 28. Seasonal abundance of silver bellies in gill net catch.

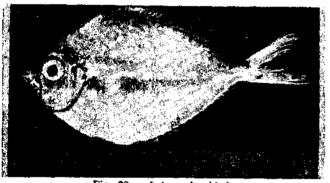


Fig. 29. Leiognathus bindus.

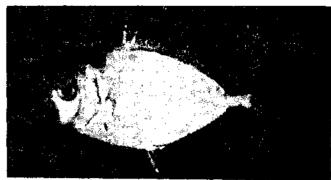


Fig. 30. Leiognathus brevirostris.

Scientific Name : Letognathus brevirostris Vernacular Name : 'Karalu'

Gear : Trawl net/Other units

Percentage in the catch of the group : 4.4

Peak period of occurrence : Feb., Jun., Jul. and Nov.

Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : 60 - 105 mm Size at first maturity : ---

Spawning season : —

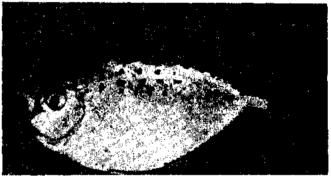


Fig. 31. Secutor insidiator.

Scientific Name : Leiognathus bindus
Vernacular Name : 'Karalu'
Gear : Trawl net/Other units
Percentage in the catch

of the group : 45.2

Peak period of occurrence : Jan.-May and Oct.-Dec.

Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : 17 - 129 mm

Size at first maturity : 80 mm Spawning season : Dec. - Feb. Scientific Name : Secutor insidiator
Vernacular Name : 'Chukka karalu'
Gear : Trawl net/Other units

Percentage in the catch

of the group : 30.0

Peak period of occurrence : Jun. - Sep.
Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : 20 - 117 mm

Size at first maturity : 90 mm

Spawning season : Jan. - Mar.

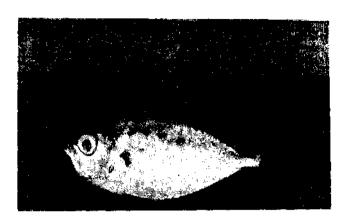


Fig. 32. Gazza minuta.

Scientific Name : Gazza minuta Vernacular Name : 'Karalu'

Gear : Trawl net/Other units

Percentage in the catch

of the group : 4.7

Peak period of occurrence: May, Aug. and Dec.

Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : 62 - 137 mm

Size at first maturity : —
Spawning season : —

LUTJANIDAE, SERRANIDAE AND POMADASYIDAE

Popular English Name : Snappers/Reef cods/

Grunters

Vernacular Name (Telugu): 'Erragorasa'/

'Rathibontha'/'Goraka'

Annual average catch : 427 t
Percentage in total catch : 3.3

Fishing methods and

their contribution : Trawl net : 2.5% Peak period of occurrence : Feb., May and Jul.

Depth of occurrence : 5 - 50 m

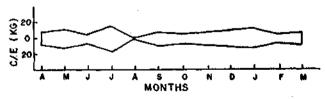


Fig. 33. Seasonal abundance of perches (Lutjanidae, Serranidae etc.) in trawl catch.

MULLIDAE

Popular English Name : Goat fish

Vernacular Name (Telugu): 'Gaddam gulivindalu'

Annual average catch : 200 t Percentage in total catch : 1.6

Fishing methods and

their contribution : Trawl net : 1.2%

Peak period of occurrence : Jul.-Sep. and Nov.-Dec.

Depth of occurrence : 5 - 50 m

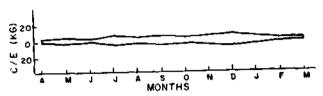


Fig. 34. Seasonal abundance of goat fishes in trawl catch.

MURAENIDAE & CONGRIDAE

Popular English Name : Eel
Vernacular Name (Telugu) : 'Pamulu'
Annual average catch : 249 t
Percentage in total catch : 1.9

Fishing methods and

their contribution : Trawl net : 1.5%

Peak period of occurrence : Jul.-Nov. Depth of occurrence : 5 - 50 m

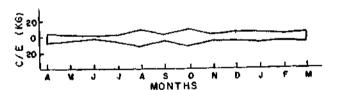


Fig. 35. Seasonal abundance of eel (Muraenidae and Congridae) in trawl catch.

Nemipteridae

Popular English Name : Threadfin bream Vernacular Name (Telugu) : 'Erragulivindalu'

Annual average catch : 808 t Percentage in total catch : 6.3

Fishing methods and

their contribution : Trawl net : 4.8%

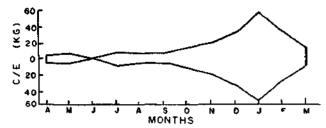


Fig. 36. Seasonal abundance of threadfin breams in trawl catch.

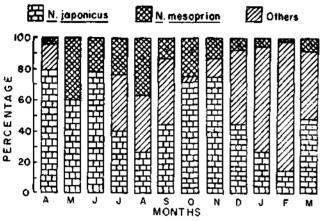


Fig. 37. Monthly species composition of threadfin breams in trawl catch

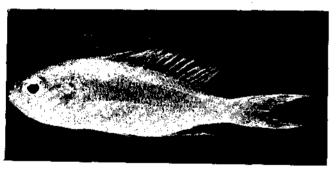


Fig. 38. Nemipterus mesoprion.

Nemipterus mesoprion

Vernacular Name 'Erragulivindalu' Gear Trawl net Percentage in the catch of the group 48.3 Peak period of occurrence: Dec. - Mar. Depth of occurrence 10-80 m Length range in commercial fishery 30-215 mm Size at first maturity 100 mm

: Dec. - Apr.

Scientific Name

Spawning season

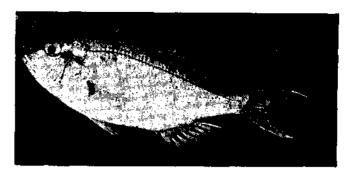


Fig. 39. Nemipterus japonicus.

Scientific Name : Nemipterus japonicus
Vernacular Name : 'Erragulivindalu'
Gear : Trawl net

Percentage in the catch

of the group : 44.4

Peak period of occurrence: Nov. - Mar. Depth of occurrence: 10-80 m

Length range in

commercial fishery : 35-305 mm
Size at first maturity : 125 mm
Spawning season : Aug. - Apr.

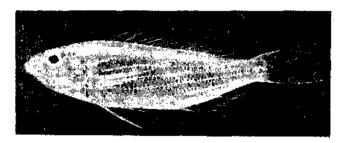


Fig. 40. Nemipterus delagoae

Scientific Name : Nemipterus delagoae
Vernacular Name : 'Erragulivindalu'
Gear : Trawl net

Percentage in the catch

of the group : 2.0

Peak period of occurrence : Sep. - Dec. Depth of occurrence : 10 - 80 m

Length range in

commercial fishery : 90-250 mm
Size at first maturity : —
Spawning season : —

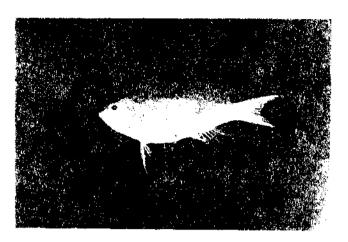


Fig. 41. Nemipterus luteus.

Scientific Name : Nemipterus luteus Vernacular Name : 'Erragulívindalu'

Gear : Trawl net

Percentage in the catch

of the group : 0.6

Peak period of occurrence: Jan.-Apr. and Jul.-Dec.

Depth of occurrence : 10 - 80 m

Length range in

commercial fishery : 90 - 216 mm

Size at first maturity : --Spawning season : ---

Nomeidae

Popular English Name : Drift fish Vernacular Name (Telugu) : 'Channitichepa'

Annual average catch : 845 t Percentage in total catch : 6.6

Fishing methods and

their contribution : Trawl net : 5.0%

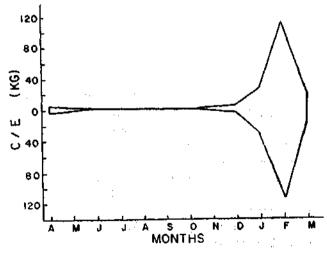


Fig. 42. Seasonal abundance of drift fishes in trawl catch.



Fig. 43. Pseues indicus.

Scientific Name : Psenes indicus
Vernacular Name : 'Channitichepa'

Gear : Trawl net

Percentage in the catch

of the group : 100

Peak period of occurrence : Oct. - Jan.

Depth of occurrence : 5-70 m

Length range in

commercial fishery : 55 - 217 mm

Size at first maturity : —
Spawning season : —

POLYNEMIDAE

Popular English Name : Threadfins Vernacular Name (Telugu) : 'Maga' Annual average catch : 71 t Percentage in total catch : 0.6

Fishing methods and

their contribution : Trawl net : 0.4%

Peak period of occurrence : Dec. - Feb.

Depth of occurrence : 5-50 m

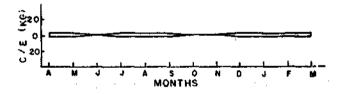


Fig. 44. Seasonal abundance of threadfins (Polynemus) in trawl catch.

SCIAENIDAE

Popular English Name : Croakers/Jew fish Vernacular Name (Telugu) : 'Gorasalu'

Annual average catch : 1,039 t

Percentage in total catch : 8.1

Fishing methods and their

contribution : Trawl net : 6.3%

Gill net : 1.4%
Other units: : 2.1%

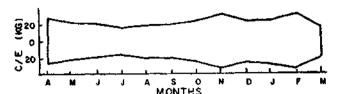


Fig. 45. Seasonal abundance of sciaenids in trawl catch.

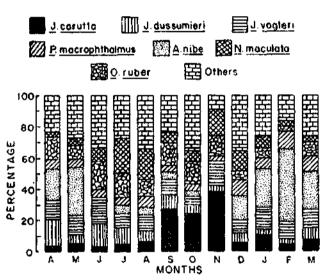


Fig. 46. Monthwise species composition of sciaenids in trawl catch.

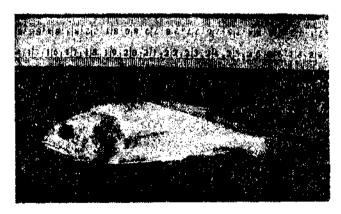


Fig. 47. Atrobucca nibe.

Scientific Name : Atrobucca nibe
Vernacular Name : 'Karrimoothigorasa'

Gear : Trawl net

Percentage in the catch

of the group : 20.1

Peak period of occurrence : Jan. - May

Depth of occurrence : 5-60 m

Length range in

commercial fishery : 90-235 mm Size at first maturity : 147 mm Spawning season : Oct.-Jun.



Fig. 48. Johnius carutta.

Scientific Name : Johnius carutta
Vernacular Name : 'Charagorasa'
Gear : Trawl net

Percentage in the

catch of the group : 11.3

Peak period of occurrence : Sep. - Nov.

Depth of occurrence : 5-50 m

Length range in

commercial fishery : 75-225 mm Size at first maturity : 155 mm Spawning season : Jan.-Jun.

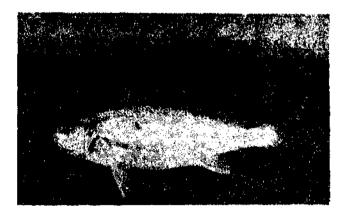


Fig. 49. Johnius dussumieri.

Scientific Name : Johnius dussumieri

Vernacular Name : 'Gorasa' Gear : Trawl net

Percentage in the catch

of the group : 7.4

Peak period of occurrence : Apr. - Jul.

Depth of occurrence : 5-50 m

Length range in

commercial fishery : 81 - 168 mm
Size at first maturity : 110 mm
Spawning season : Mar. - Aug.

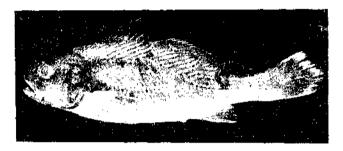


Fig. 50. Johnius vogleri.

Scientific Name : Johnieops vogleri

Vernacular Name : 'Gorasa'
Gear : Trawl net

Percentage in the catch

of the group : 10.7

Peak period of occurrence : Jan. – Jun.

Depth of occurrence : 5 – 50 m

Length range in

commercial fishery : 90 - 238 mm
Size at first maturity : 190 mm
Spawning season : Nov.-Jun.

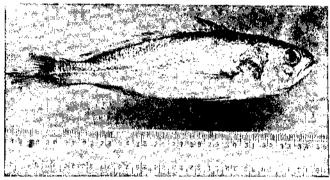


Fig. 51. Otolithes ruber.

Scientific Name : Otolithes ruber
Vernacular Name : 'Pallagorasa'
Gear : Trawl net

Percentage in the catch

of the group : 9.6

Peak period of occurrence : Apr. - Nov.

Depth of occurrence : 5-50 m

Length range in

commercial fishery : 30-250 mm

Size at first maturity : —
Spawning season : —



Fig. 52. Nibea maculata.

Scientific Name : Nibea maculata
Vernacular Name : 'Nallagorasa'
Gear : Trawl net

Percentage in the catch

of the group : 7.9

Peak period of occurrence : Jul. - Aug. Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

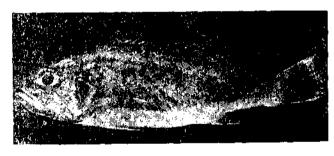


Fig. 53. Pennahia macrophthalmus.

Scientific Name : Pennahia macrophthalmus

Vernacular Name : 'Gorasa' Gear : Trawl net

Percentage in the catch

of the group : 6.3

Peak period of occurrence: Jan. - Mar. and Dec.

Depth of occurrence : 5-70 m

Length range in

commercial fishery : 40 ~ 260 mm Size at first maturity : 147 mm Spawning season : Oct. - Jun.

SCOMBRIDAE

Popular English Name : Seer fish/Mackerel/

Tuna

Vernacular Name (Telugu) : 'Vanjiram'/'Kanaguada-

thalu'/'Suralu'

Annual average catch
Percentage in total catch

839 t

Fishing methods and

their contribution : Gill net

Trawl net : 0.6%

Other units: 5.7%

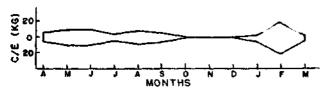


Fig. 54. Seasonal abundance of seer fishes in gill net catch.

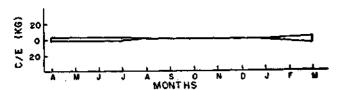


Fig. 55. Seasonal abundance of tunas in gill net catch.

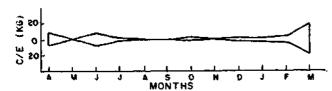


Fig. 56. Seasonal abundance of mackerel in gill net catch.

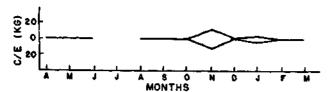


Fig. 57. Seasonal abundance of mackerel in other units.

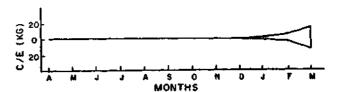


Fig. 58. Seasonal abundance of mackerel in trawl catch.

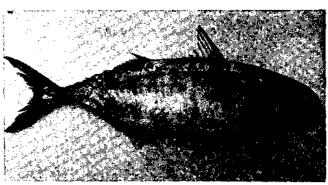


Fig. 59. Rastrelliger kanagurta.

Scientific Name : Rastrelliger kanagurta
Vernacular Name : 'Kangadathalu'

Gear : Gill net/Trawl net/

Other units

Percentage in the catch

of the group : Gill net : 37.3

Trawl net : 99.0 Other units : 99.0

Peak period of occurrence: Jan. - Apr. and Aug.-Dec.

Depth of occurrence : Upto 80 m

Length range in

commercial fishery : 35 - 235 mm

Size at first maturity : —
Spawning season : —

SPHYRAENIDAE

Popular English Name : Barracuda Vernacular Name (Telugu) : 'Kaijarmatta'

Annual average catch : 117 t
Percentage in total catch : 0.9

Fishing methods and

their contribution : Gill net : 1.0%

Trawl net : 0.6% Other units : 0.6%

Peak period of occurrence : Dec. - Jun.
Depth of occurrence : Upto 80 m

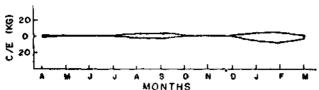


Fig. 60. Seasonal abundance of barracudas in trawl catch.

STROMATEIDAE

Popular English Name : Pomfrets
Vernacular Name (Telugu) : 'Chandua'
Annual average catch : 44 t
Percentage in total catch : 0.3

Fishing methods and

their contribution : Gill net : 0.7% Trawl net : 0.2%



Fig. 61. Seasonal abundance of pomfrets in trawl catch.

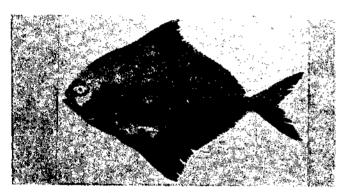


Fig. 62. Parastromateus niger.

Scientific Name : Parastromateus niger
Vernacular Name : 'Nalla chandua'
Gear : Gill net/Trawl net

Percentage in the catch

of the group : -

Peak period of occurrence : Feb. - May, Aug. and

Nov. 5 - 50 m

Depth of occurrence

•

Length range in

; ----

commercial fishery
Size at first maturity

:

Spawning season :

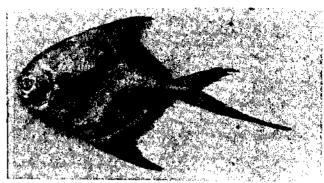


Fig. 63. Pampus argenteus.

Scientific Name : Pampus argenteus
Vernacular Name : 'Tella chandua'
Gear : Gill net/Trawl net

Percentage in the catch

of the group : ---

Peak period of occurrence : Apr. - Jul. and Dec.

Depth of occurrence : 5 - 50 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

SYNODONTIDAE

Popular English Name : Lizard fish Vernacular Name (Telugu) : 'Bade mattalu'

Annual average catch : 358 t

Percentage in total catch : 2.8

Fishing methods and

their contribution : Trawl net : 2.1% Gill net : 0.1%



Fig. 64. Seasonal abundance of lizard fishes in trawl catch.

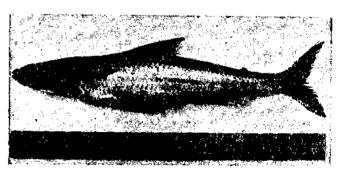


Fig. 65. Saurida tumbil.

Scientific Name : Saurida tumbil
Vernacular Name : 'Bade mattalu'
Gear : Trawl net/Gill net

Percentage in the catch

of the group : 40

Peak period of occurrence: Jan., Jul. and Oct. - Dec.

5 - 70 m

Depths of occurrence

Length range in

commercial fishery : 170 - 350 mm

Size at first maturity : —
Spawning season : —

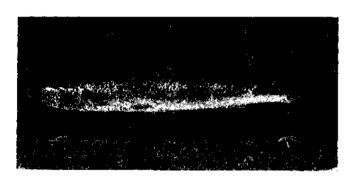


Fig. 66. Saurida undosquamis.

Scientific Name : Saurida undo squamis
Vernacular Name : 'Bade mattalu'
Gear : Trawl net/Gill net

Percentage in the catch

of the group : 20

Peak period of occurrence: Jan., Jul. and Oct.- Dec.

Depth of occurrence : 5-70 m

Length range in

commercial fishery : —
Size at first maturity : —
Spawning season : —

RHINOBATIDAE

Popular English Name : Shovel-nose ray/Skate
Vernacular Name (Telugu) : 'Teku'
Annual average catch : 61 t
Percentage in total catch : 0.4
Fishing methods and their contribution : Trawl net : 0.4%

Peak period of occurrence: Dec. - Mar. Peak has to

Depth of occurrence : 3-80 m

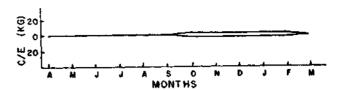


Fig. 67. Seasonal abundance of skates in trawl catch.

TACHYSURIDAE

Popular English Name : Cat fish Vernacular Name (Telugu) : 'Jellalu'/'Jella'

Annual average catch : 459 t Percentage in total catch : 3.6

Fishing methods and

their contribution : Trawl net : 2.6%

Gill net : 1.7%

Peak period of occurrence : Jan. - Jun.
Depth of occurrence : 5 - 80 m

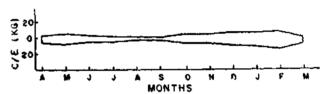


Fig. 68. Seasonal abundance of cat fishes in trawl catch.

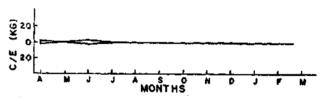


Fig. 69. Seasonal abundance of cat fishes in gill net catch.

TRICHIURIDAE

Popular English Name : Ribbon fish Vernacular Name (Telugu) : 'Savallu' Annual average catch : 1,405 t Percentage in total catch : 10.9

Fishing methods and

their contribution : Trawl net : 7.1% Gill net : 2.4% Other units : 49.3%

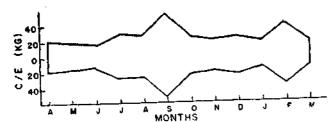


Fig. 70. Seasonal abundance of ribbon fish in trawl catch.

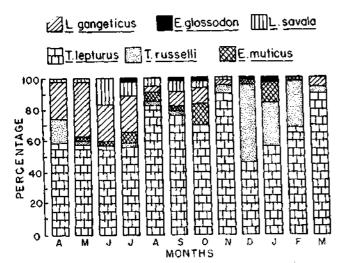


Fig. 71. Monthly species composition of ribbon fishes in trawl

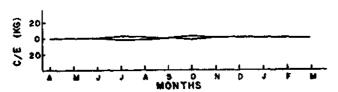


Fig. 72. Seasonal abundance of ribbon fish in gill net catch.

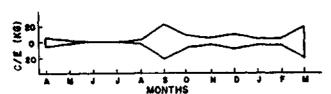


Fig. 73. Seasonal abundance of ribbon fish in other units.

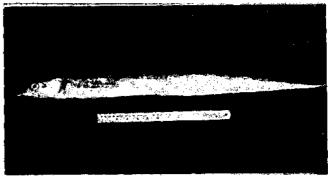


Fig. 74. Trichiurus lepturus.

Scientific Name Trichiurus lepturus Vernacular Name 'Patti savallu' Trawl net Gear

Percentage in the catch

of the group : 73

Peak period of occurrence Oct. - Dec. Depth of occurrence 5 - 50 m

Length range in

commercial fishery 165 - 1,150 mm

Size at first maturity 525 mm Spawning season Feb. - Jun.

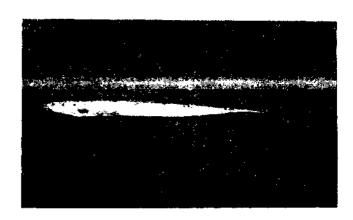


Fig. 75. Lepturacanthus gangeticus.

Scientific Name : Lepturacanthus

gangeticus

'Savallu' Vernacular Name Gear Trawl net

Percentage in the catch

12.9 of the group

Jan. - Dec. Peak period of occurrence Depth of occurrence 5 - 50 m

Length range in

195 ~ 585 mm commercial fishery

Size at first maturity

Spawning season May - Jul.

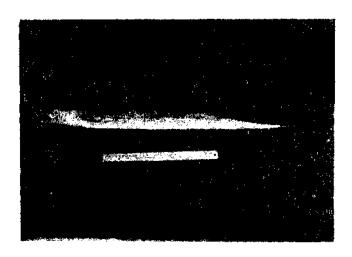


Fig. 76. Lepturacanthus savala.

Scientific Name : Lepturacanthus savala

Vernacular Name : 'Savallu' Gear : Trawl net

Percentage in the catch

of the group : 4.6

Peak period of occurrence : Jul. - Aug. Depth of occurrence : 5-50 m

Length range in

commercial fishery : 200 - 700 mm

Size at first maturity : —
Spawning season : —



Fig. 77. Eupleurogrammus muticus.

Scientific Name : Eupleurogrammus

muticus

Vernacular Name : 'Savallu' Gear : Trawl net

Percentage in the catch

of the group : 4.2

Peak period of occurrence : Jul. - Aug. Depth of occurrence : 5-50 m

Length range in

commercial fishery : 160-460 mm

Size at first maturity

Spawning season : May-Nov.

TRYGONIDAE & MYLIOBATIDAE

Popular English Name : Rays Vernacular Name (Telugu) : 'Teku' Annual average catch : 312 t Percentage in total catch : 2.4

Fishing methods and

their contribution : Trawl net : 1.9%

Peak period of occurrence : Nov. - Apr. Depth of occurrence : 5-50 m

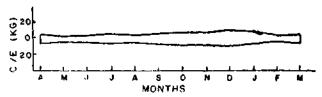


Fig. 78. Seasonal abundance of rays in trawl catch,

