

Saurida tumbil

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(%97.36)

%44.28

%55.60

**FOOD HABIT OF *Saurida tumbil* IN IRAQI MARINE
WATERS,
NORTHWEST ARABIAN GULF / IRAQ**

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ABSTRACT

Food habit was studied of *Saurida tumbil* in Iraqi marine waters, northwest of Arabian Gulf. The results revealed that this species is carnivorous. Fishes dominated the food items consumed in diet importance constituting 97.36 % of large individuals following by shrimps 2.54% and *Sepia* sp. 0.1%, whereas young individuals fed on shrimps, which constituted %55.6, fish (44.28%) and sepia (0.12%). A cannibalism phenomenon apparently noticed for young individuals. Data analysis indicated that both feeding activity and

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feeding intensity varied from month to month and generally higher during warm months.

Saurida (Kuronuma and Abe, 1986) .(Randall, 1983)
tumbil

Rao, 1964; Kuthalingam,)

1959
Euzen .(Zhang and Yang, 1986; Rao, 1981; Kuthalingam *et al.*, 1978;
S. undosquamis & *S.tumbil* (1987)
Ali *et al.* (1993)

(48°.45' – 48°.50')

1999

(1)

(29°.48' – 29°.45')

20-6

.2000

%23.5 %28.3 %48.2

.(AlBadran, 1995)

()

(0.1)

.Ball (1961)

% 4

.(160 > 160 <)

(Gordon, 1977):

$$100 \times \left(\frac{\quad}{\quad} \right) =$$

$$\frac{\quad}{\quad} =$$

$$100 \times \left(\quad \right)$$

(Windell and Bowen, 1978)

.(Jones, 1986)

$$AI = (\%N + \%V) \%F : \quad (\text{Pinkas } et \text{ al.}, 1971) \quad (\text{IRI})$$

$$= \%N \quad = AI$$

$$= \%F \quad = \%V$$

:

:

$$IRI\% = \frac{AI}{\sum AI}$$

نشاط التغذية وشدتها

(%94.74)

(%54.54)

.(2)

%90

%47.36

/ 3.33

...

		/	2.07	
2.3		/	3.5	
				/
التغيرات الشهرية في مكونات الغذاء				
	(3)			
	(%100)	(%80.64)	(%89.63)	
	(%20.86)		(%33.46)	
			(%33.33)	
	%79.14	%66.11		
(%6.06)	(%10.39)			
				(%4.00)
		(%93.02)	(%99.36)	(3)
	%36.95	%10.1		
			(%36.11)	
(%9.54)				
			%9.68	
				%15
<i>Upeneus</i>)		
<i>Thryssa</i>	<i>Leiognathus bindus</i>		<i>Ilisha</i> spp.	<i>sulphureus</i>
<i>Solea</i>	<i>elongata</i>		<i>Saurida tumbil</i>	<i>mystax</i>
	(<i>Platycephalus indicus</i>			<i>Cynoglossus</i> sp.
	<i>Sardinella</i> spp.)		
<i>Johnius</i> sp.		<i>Bathygobius</i> spp.		<i>Caranx</i> spp.

2006 69-57 (1)	(24)	()
<i>Atropus atropus</i>	<i>Alepes kalla</i>	<i>Liza sp.</i>
<i>Sepia sp.</i>	<i>Penaeus spp.</i>	<i>Metapenaeus spp.</i>
		<i>Otolithes ruber</i>

مكونات الغذاء الكلية

) % 4.82		% 47.23	%47.94
%56.46			(4
	%60.39	%2.15	%41.38
		%55.84	
		.	%1.95
%80.55	%92.45		
%17.31	%5.5		%87.88
		(4)	%17.36
		.	

دليل الأهمية النسبي لمكونات الغذاء المختلفة

(5)

	%44.28	%55.60
%97.36		.(%0.12)
%2.54		
		(%0.1)

Lagler *et al.* (1962)

Jayaramaiah *et al.* (1996)

al.

(Bibik *et al.*, 1971)

(Al-Zubaidi, 1998)

(Randall, 1983)

%97.36

(Carnivore)

(Cannibalism)

Zhang and Yang (1986) Rao (1981)

Rao (1981)

(<)

(>)

Kuthalingam (1959)

Euzen (1987)

(Cephalopods)

Kuthalingam *et al.* (1978)

Neendakara

.(Daud and Taha, 1986)

(Hussein and Mahdi, 1999)

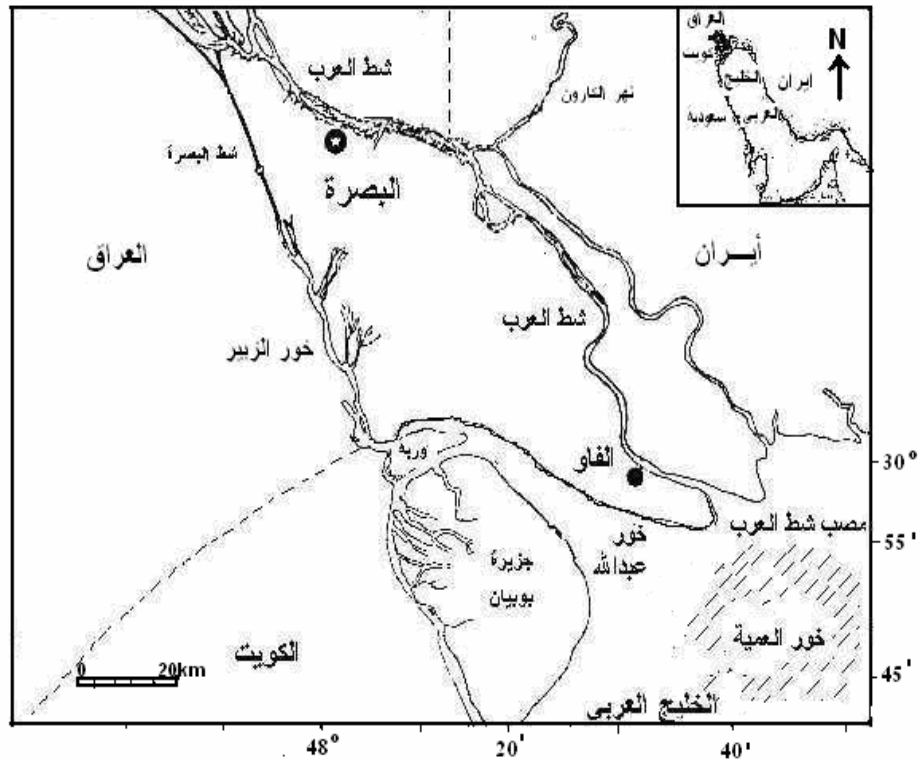
)(Nikolski, 1663) .(Faltas, 1996)

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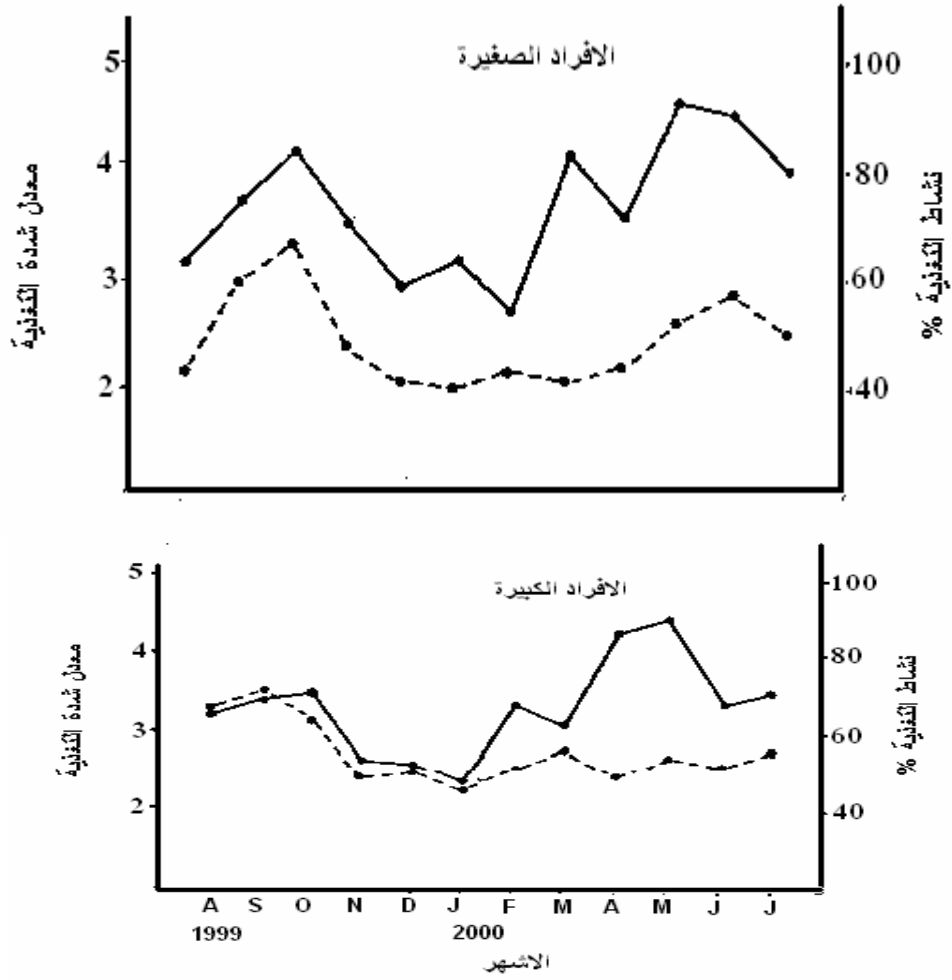
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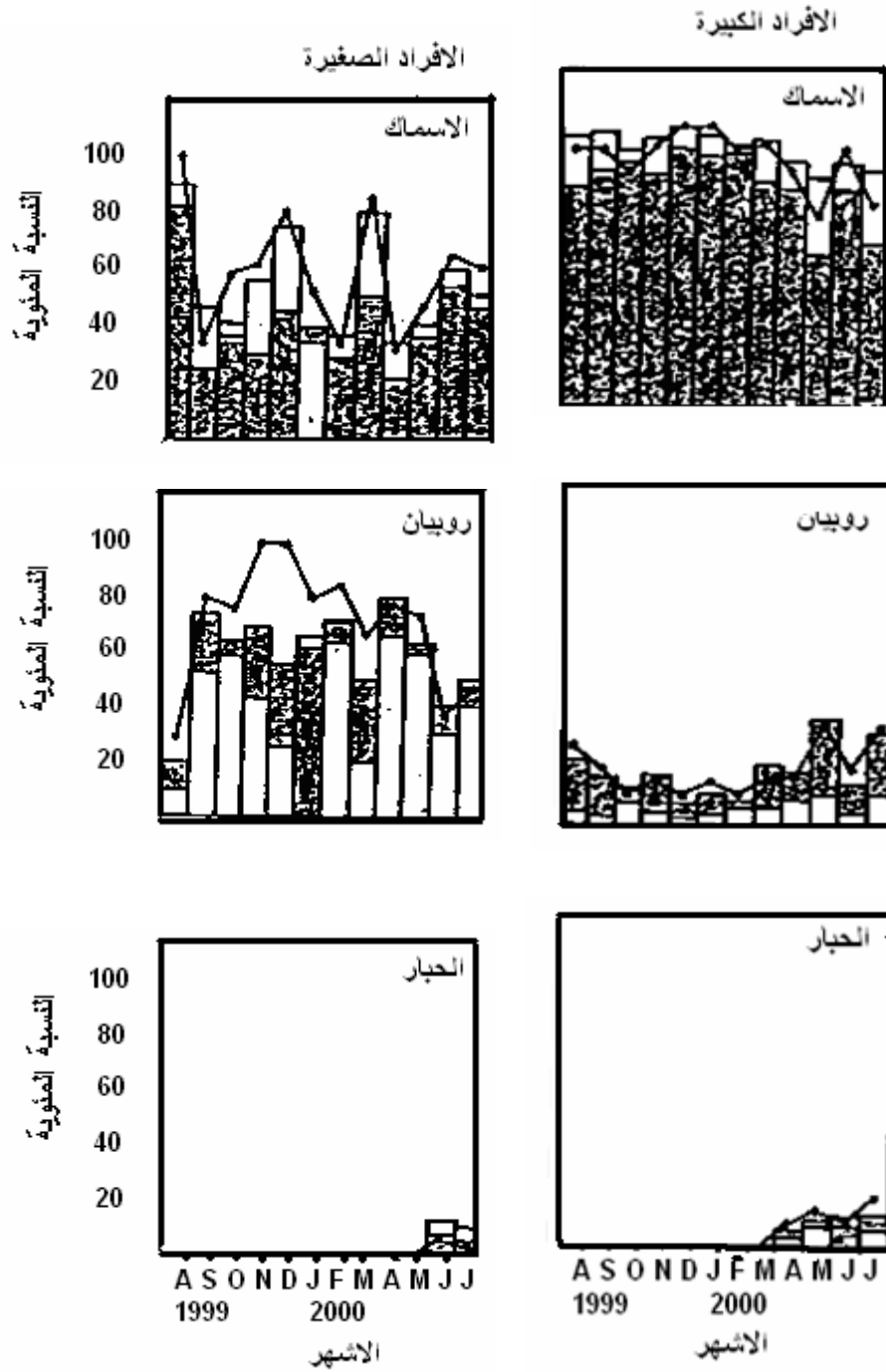
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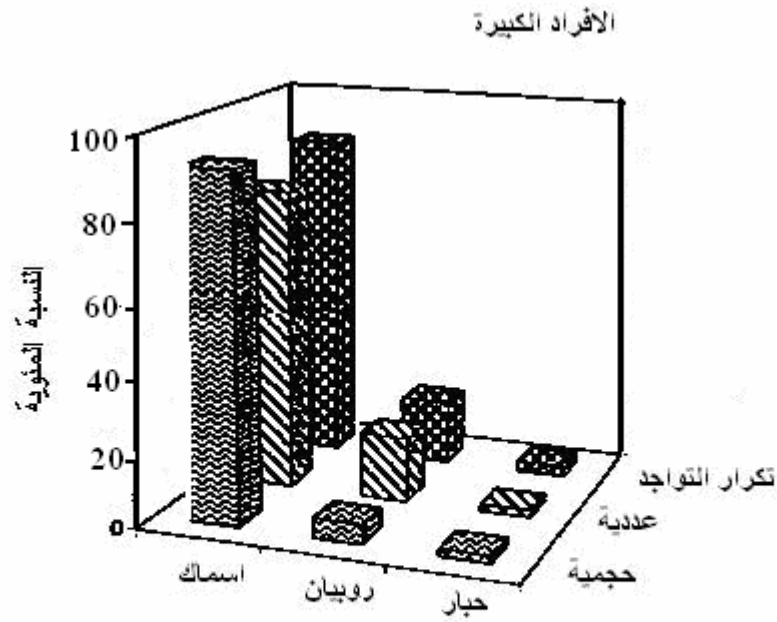
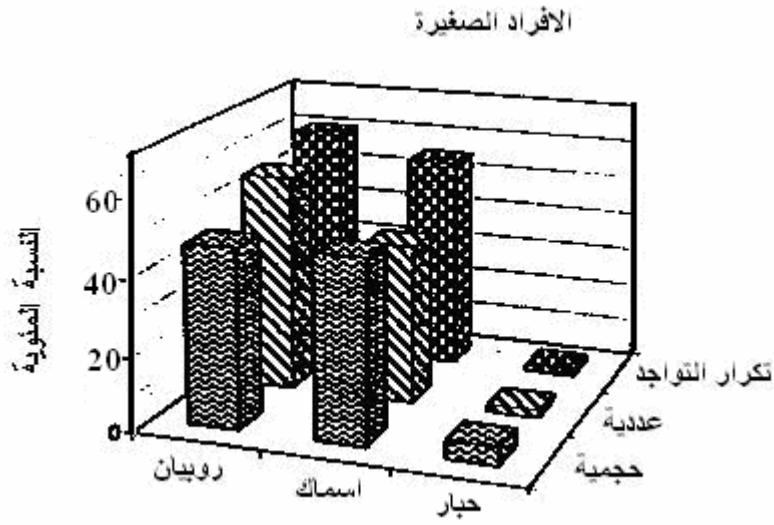
(1)



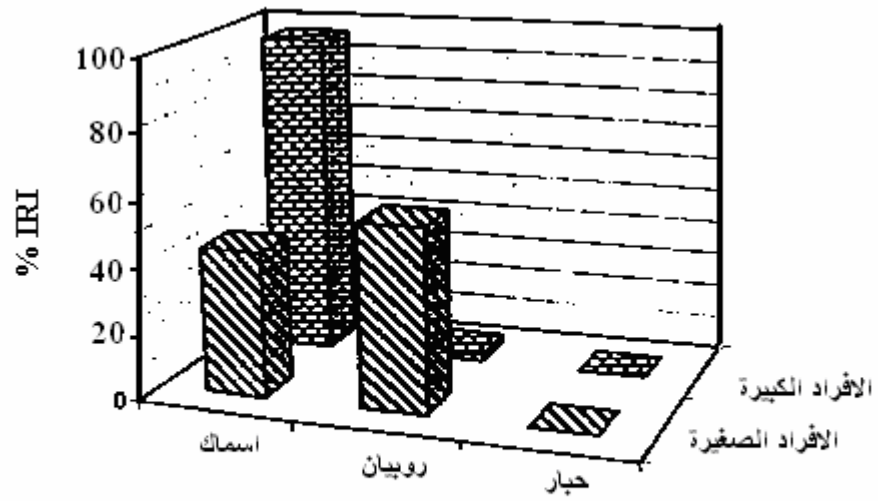
شكل (2) التغيرات الشهرية في نشاط التغذية وشدتها
 لأسماك ابو المهيل في المياد البحرية العراقية



شكل (3) التغيرات الشهرية في النسبة المئوية للحجم للعدد والعدد والتكرار لمكونات غذاء أسماك أبو الهيل



شكل (4) النسبة المئوية الحجمية والعددية وتكرار التواجد لمكونات غذاء اسماك ابوالمهيل



شكل (5) النسبة المئوية لقيم دليل الأهمية النسبي لاسماك ابو الهيل