

by

Ferit BINGEL
Institute of Marine Sciences
Middle East Technical University, P.K. 28, Erdemli-Içel (Turkey)

Abstract

Jellyfish occurrence east of the Göksu river delta (Cilician Basin) is summarized as total catches from the monthly cruises to different stations.

During a series of quantitative fishery studies extending from May 1980 to November 1982 the occurrence of jellyfish in different fishing grounds (figure I) were recorded and the results are summarized in the table and figure II.

The trawl net used during the investigation had a stretched mesh size of 22 mm in the cod end and was suitable for soft grounds. The cod end cover had a stretched mesh size of 60 mm. The vertical mouth opening of the net measured about 60-80 cm.

The data collected indicate that most of the jellyfish during the study period were caught in May-June-July in the inshore region of the Gulf of Mersin in depths ranging between 8-15 m. (figures I and II). This area is located in the delta region of the Tarsus and Seyhan rivers. These rivers carry run-off from regions in which considerable agricultural and industrial activity (agrochemical, petrochemical, textile and food industries) take place. Most of the industries in the province of Adana discharge their wastes into these two rivers. It is, therefore, not surprising to find most of the jellyfish within the area of influence of these two rivers. A similar situation is expected to exist off the Ceyhan river delta in the Gulf of Iskenderun. Unfortunately the data from this region are not conclusive.

In the Göksu river delta no jellyfish were caught during the investigation period. This was expected because the Göksu river flows through a relatively non-industrialized and agriculturally underdeveloped region.

Dates of cruises and jellyfish occurrences at different stations between May 1981 and November 1982

	<u> </u>	9 9 90	•	
Name of station	Month of the year	Date of the cruise	Number of hauls	Number of jellyfish caught
Tīrtar	May 1980	09/05/1980	4	1 200
Göksu	** **	15/05/1980	4	, -
Seyhan	w w	21/05/1980	2	4 448
	w . jw	29/05/1980	2	2 053
Tirtar	June 1980	09/06/1980	4	* 🛥
Göksu	w `w	10/06/1980	5	· -
Seyhan	wi w	12/06/1980	4	54 500
ii				
Tirtar	July 1980	02/07/1980	4	1 500
Seyhan		04/07/1980	4	750
Göksu	10 H	08/07/1980	4	- "
•	,	e e		
Seyhan	February 1980	03/02/1981	4	5 200
Göksu	w - w	04/02/1981	4	-
Tirtar		09/02/1981	4	-
		, *		я ,
Seyhan	April 1981	09/04/1981	4	89 000
Tĭrtar		10/04/1981	4	-
Göksu	w w	13/04/1981	4	720
•	, "	e e		,
	`			

Notes

- In September and November 1981 only two stations (Tirtar and Göksu) were visited.
- 2. In October 1981 and January-February 1982 there were no cruises. Last data collection was in November 1982.
- 3. There was no catch of jellyfish in the months not indicated.

Dates of cruises and jellyfish occurrences (cont'd)

				**
Seyhan	May 1981	11/05/1981	4	93 615
Göksu	н и	12/05/1981	4	_
Tirtar	H B	13/05/1981	4	-
Göksu	June 1981	05/06/1981	4	-
Tirtar	H H	06/06/1981	4	-
Seyhan	11 M	07/06/1981	4	30 400
Tuzla	n n	07/06/1981	4	- .
Karatas	и и	08/06/1981	4	188 000
Yumurtalik		08/06/198	4	460
Botas	n !!	09/06/1981	4	
Seyhan	March 1982	04/03/1982	4	-
Göksu	и и	09/03/1982	2	–
Tīrtar		09/03/1982	4	-
Tuzla		20/03/1982	4	-
Raratas	ee 29	21/03/1982	3	
Yumurtalik		21/03/1982	4	11 700
Botas		22/03/1982	4	_
Gök su	April 1982	21/04/1982	4	· _ ·
Tirtar	n	26/04/1982	4	- ·
Seyhan		27/04/1982	3	1 180
Tuzla		27/04/1982	. 2	
Karatas		28/04/1982	4	_
Yumurtalik	May 1982	01/05/1982	4	
Botas		01/05/1982	4	<u>-</u>
Seyhan	May 1982	11/05/1982	3 .	_
Tuzla	n n	11/05/1982	4	
·Botas		13/05/1982	3	
Yumurtalik	n n	14/05/1982	3	_
				,

Dates of cruises and jellyfish occurrences (cont'd)

	· · · · · · · · · · · · · · · · · · ·	····		,
	į			
Karatas	May 1982	14/05/1982	3	660
Tirtar	W 11	18/05/1982	4	_
Göksu	и и	21/05/1982	4	-
				,
Seyhan	June 1982	07/06/1982	3	-
Tuzla	91 97	07/06/1982	2	_
Raratas	н н	08/06/1982	4	33 700
Yumurtalik		08/06/1982	4	-
Botas	H H I	09/06/1982	3	
Göksu	92 EN	11/06/1982	4	_
Tirtar	# · · #	17/06/1982	4	-
	a a	·- ·		
Seyhan	July 1982	05/07/1982	4	4 700
Raratas	, 11 11	07/07/1982	3	-
Yumurtalik	и и	07/07/1982	4	
Botas	и и	08/07/1982	4	-
Tirtar	и и	12/07/1982	4	-
Göksu	и и	13/07/1982	4	-
				e e
Tirtar	August 1982	20/08/1982	3	- :
Seyhan		24/08/1982	4	33 200
Karatas	и и	27/08/1982	3	-
Yumurtalik	н , н	27/08/1982	3	, -
Botas	H H	28/08/1982	4 .	
Göksu	October 1982	05/10/1982	3	
Tirtar	<u>n</u> <u>n</u>	06/10/1982	4	-
Seyhan	и ж	12/10/1982	4	260
Karatas	n * n	13/10/1982	3	-
Yumurtalïk		13/10/1982	1	-
Botas		15/10/1982	4	

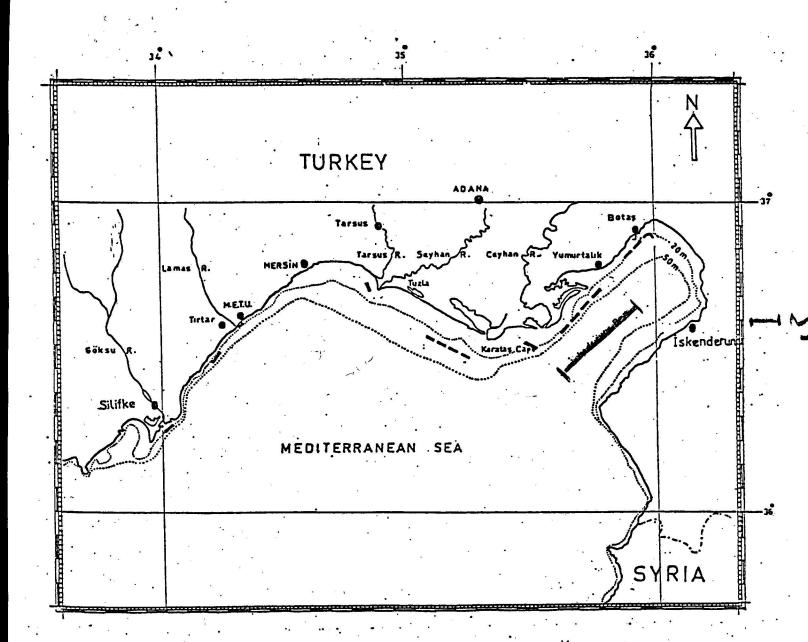


Figure I. Stations of quantitative fishery east of Goksu river delta



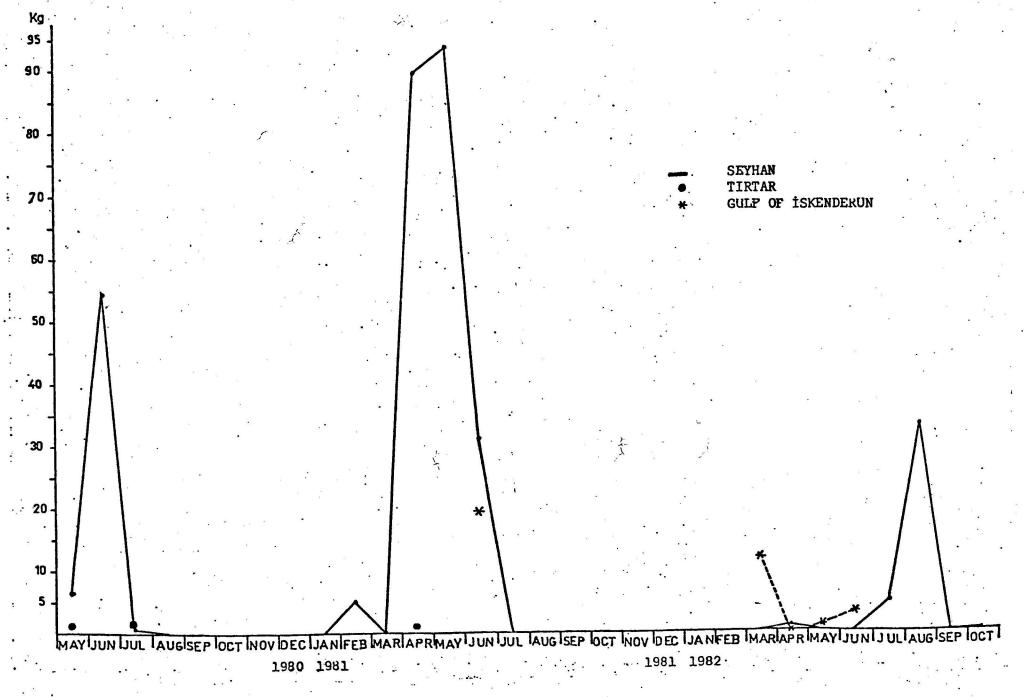


Figure II. Time series of the monthly total catches of jellyfish at different stations during the sampling period