

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD
FISHERIES LABORATORY, LOWESTOFT, SUFFOLK, ENGLAND

REPORT: ANTON DOHRN CRUISE 148

(PROVISIONAL: Not to be quoted without prior reference to the author)

STAFF: P R Witthames

DURATION: Left Bremerhaven 1500h 26 March
Arrive Plymouth 1130h 17 April

LOCALITY: Bay of Biscay - Great Sole Bank

AIMS:

1. To collect ovaries from a length range of mackerel for estimating fecundity.

NARRATIVE:

ANTON DOHRN sailed from Bremerhaven at 1500h on 26 March 1986. Bad weather delayed arrival at the working area in the Bay of Biscay (46° North). Fishing commenced on 31 April 1984 with up to 5 x ½h trawls per day working in a grid north towards Great Sole Bank. ANTON DOHRN ceased work on 15 April and steamed to Plymouth where she docked at 1130h on 17 April.

RESULTS:

312 mackerel were collected from 46°10' North to 50°45'N and between 2°21' West to 10°57'W. 167 of these fish, in maturity stage 4, 1, were collected close to the central spawning area from 48°30'N to 50°45'N and between 8°10'W to 10°57'W. A summary of the fish in the collection, tabulated by length and maturity stage is appended.

P R Witthames
24 April 1986

DISTRIBUTION:

M G Walker
Wendy Dawson
M Walsh DAFS Aberdeen
Lindsey Laird Aberdeen University
D Falkingham

A SUMMARY OF THE LENGTH RANGE OF FISH COLLECTED FOR EACH MATURITY STAGE. ALL OVARIES ARE PRESERVED IN FORMALIN

LENGTH CM	MATURITY STAGE						
	4,1	4,2	5,1	5,2	6,1	6,2	7
20							
1							
2							
3							
4	1						
5	1						
6	3	1	1				
7	8	1	2				
8	2		2				
9	1	1	1				
30	2		1				
1	9	1		1	2		
2	10	2	4	1			1
3	10	4	3	6	1	2	2
4	10	4	9	3	2	4	
5	10	3	7	3			
6	10		2	5	1		
7	10	2	6	4	1	2	
8	10	2	6	1		1	
9	10	3	6	2	2		
40	10	2	2		1	3	
1	10	1	2		1		
2	10	1	1		1		
3	10		1		1		
4	10		5				
5	7		1				
6	3						