

INTERNATIONAL COMMISSION FOR



RESTRICTED  
THE NORTHWEST ATLANTIC FISHERIES

Serial No.2201  
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Seal Contribution No.2  
(also ICNAF Res.Doc.69/54)

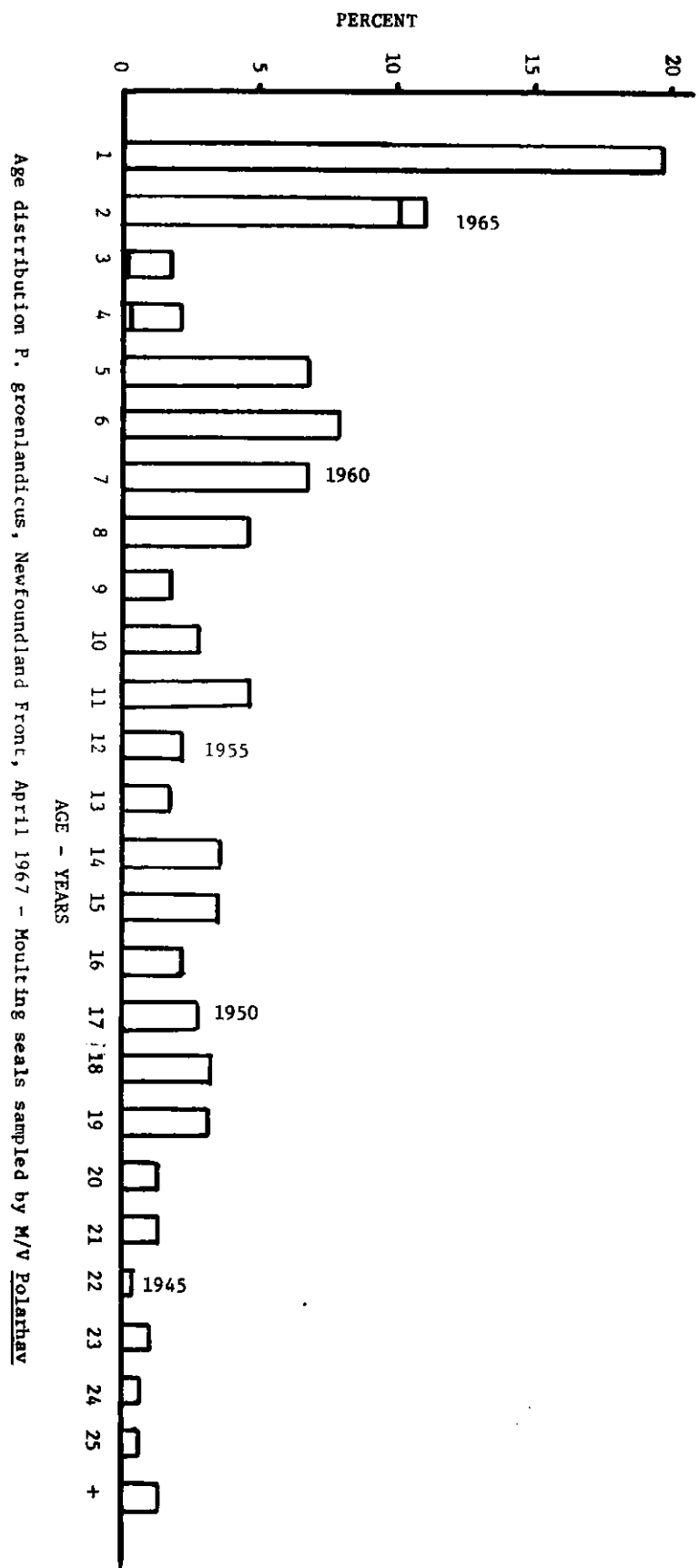
ANNUAL MEETING - JUNE 1969

Some results of Norwegian research on seals, 1964 and 1967

by T. Øritsland

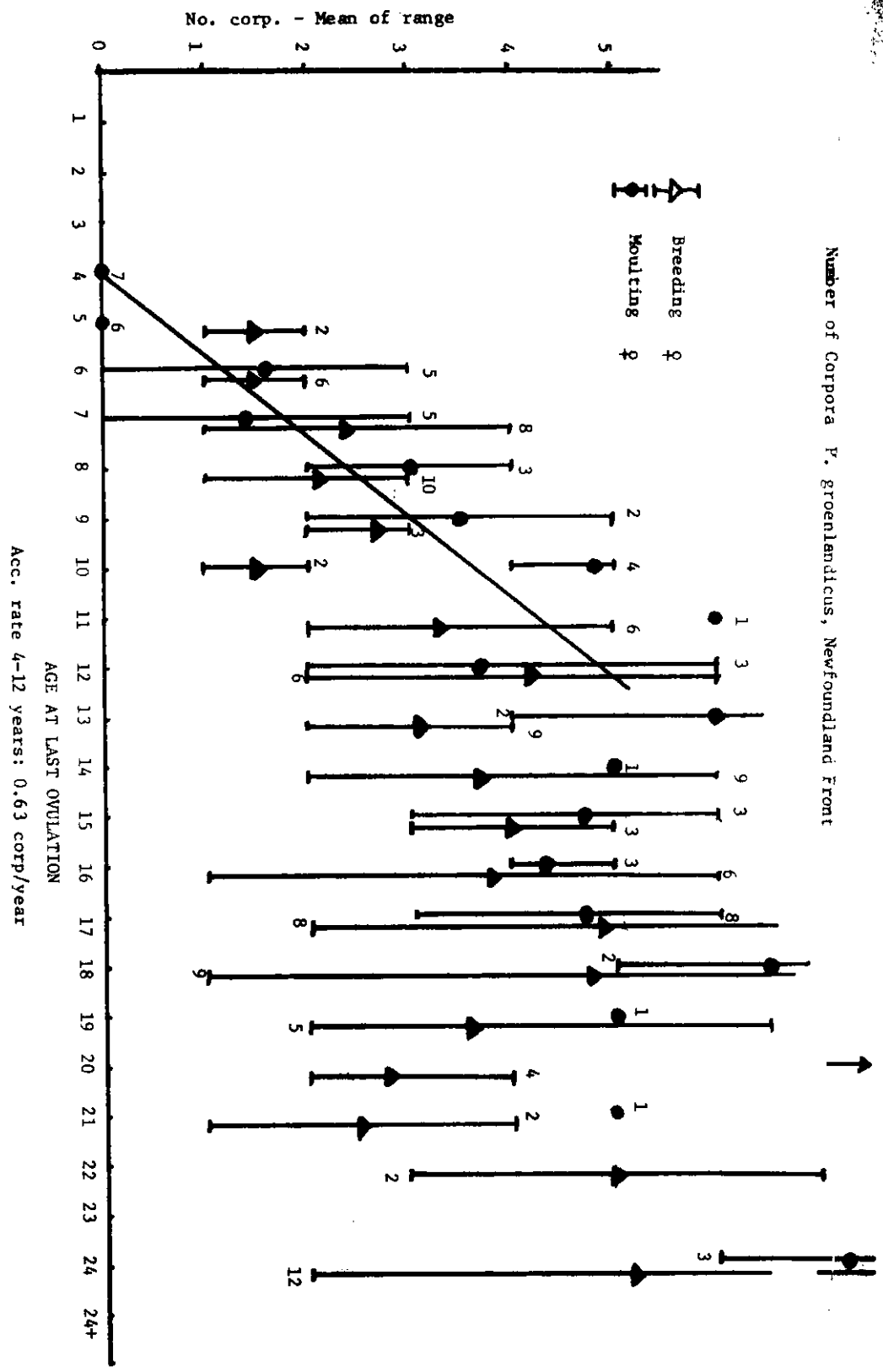
Type frequencies *P. groenlandicus*  
 "Polarhav" - Newfoundland Front 2-26 April 1967

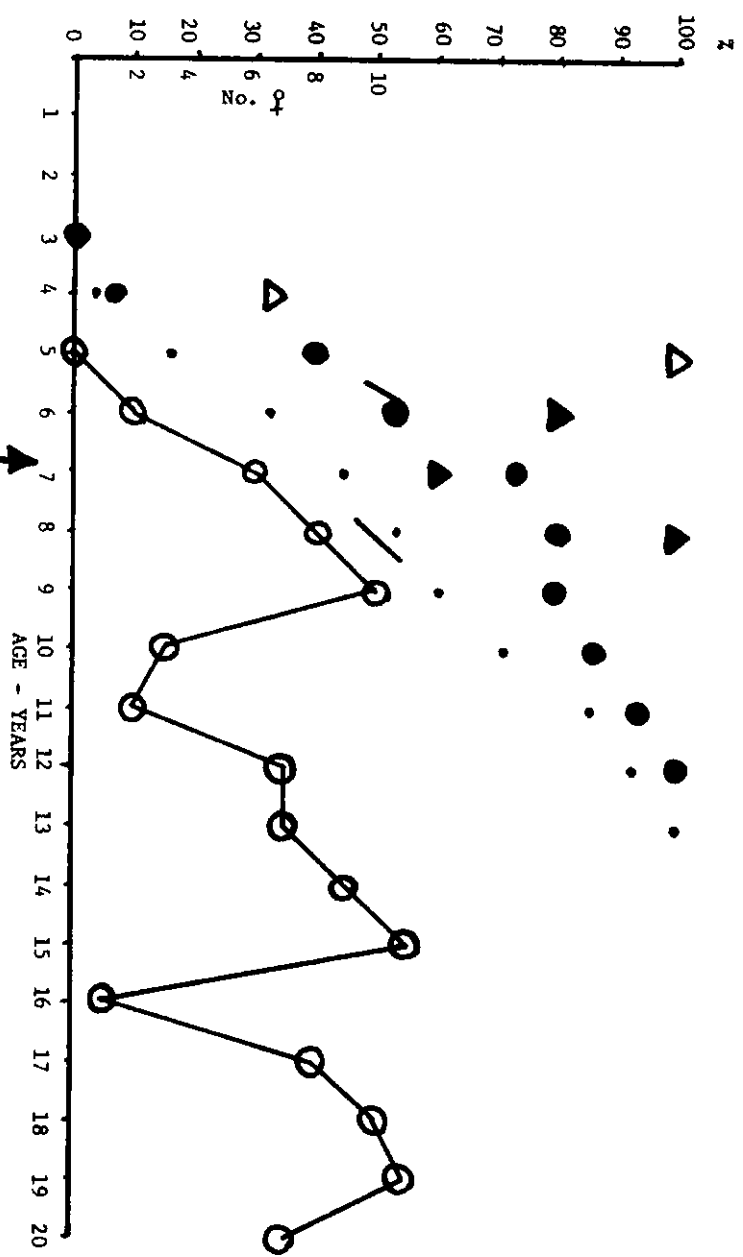
Age Frequencies	Year Class	♀	♂	Total	
		n	n	n	%
1	1966	23	32	55	19.7
2	1965	20	11	31	11.1
3	1964	1	4	5	1.8
4	1963	1	5	6	2.2
5	1962	5	14	19	6.8
6	1961	5	17	22	7.9
7	1960	3	16	19	6.8
8	1959	5	8	13	4.7
9	1958	0	5	5	1.8
10	1957	3	5	8	2.8
11	1956	0	13	13	4.7
12	1955	1	5	6	2.2
13	1954	1	4	5	1.8
14	1953	1	9	10	3.6
15	1952	1	9	10	3.6
16	1951	1	5	6	2.2
17	1950	1	7	8	2.8
18	1949	1	8	9	3.2
19	1948	0	9	9	3.2
20	1947	1	3	4	1.4
21	1946	1	3	4	1.4
22	1945	0	1	1	0.4
23	1944	0	3	3	1.1
24	1943	1	1	2	0.7
25	1942	0	2	2	0.7
+		0	4	4	1.4
Sum		76	203	279	100.0



Age distribution P. groenlandicus, Newfoundland Front, April 1967 - Moulting seals sampled by M/V Polarhav

Number of Corpora P. groenlandicus, Newfoundland Front





Sexual maturity P. Groenlandicus, Newfoundland Front.

Fertility of sexually mature female  
harp seals in Front Area, Newfoundland

Counts of corpora lutea and albicantia, and estimates of missing corpora for 3 most recent breeding seasons (ovulations), presuming that ovulations alternate regularly between ovaries.

Age Groups	Year of Cell	Breeding ♀			Moulting ♀			Total		
		No. Count	No. Miss.	% Miss.	No. Count	No. Miss.	% Miss.	No. Count	No. Miss.	% Miss.
6-12	1964	8	1		36	3		124	13	9.5
	1967	68	8		12	1				
13-18	1964	35	4		23	1		165	11	6.3
	1967	91	4		16	2				
19 up	1964	38	2		8	1		135	10	6.9
	1967	80	7		9	0				
Unknown	1964	23	3		9	2		32	5	
Totals	1964	104	10	8.8	76	7	8.4	456	39	7.9
	1967	239	19	7.4	37	3	7.5			

- Conclusion:
1. Percentage missing corpora lutea indicate overall pregnancy rate of about 92% among mature females.
  2. Pregnancy rate lowest among youngest animals.
  3. Pregnancy rate increased from 1964 to 1967.

Provisional catch statistics for Norwegian sealing at Newfoundland in 1968.

Effort

No. vessels	10
No. days	60*
Gross tons (mean)	500*
Engine h.p. (mean)	1300*
Crew (mean)	30*

Catch harpseals

Whitecoats	1600
Beaters	63400
Sum pups	65000
Older animals	24600
Total harpseals	89600

Catch hooded seals

Bluebacks	1280
Older animals	450
Total hooded seals	1730

Total catch 91330

\* estimated