

Tables 1–12

TABLE 1. Numbers of decapod larvae taken at Stations in Ungava Bay during the *MV CALANUS* Expeditions, 1947–51 (for precise positions see maps in Dunbar and Grainger, 1952 and Grainger, 1954).

Date	Station No.	Lat	Long	Location	Depth ¹ (hauls)	Specimens
1947						
24 Jun	1	58°39N	68°15W	Koksoak River mouth	4–5 (2)	431
29 Jun	3	58°55N	68°13W	Koksoak River mouth	2–7 (3)	1 346
03 Jul	7	58°55N	68°53W	Koksoak River mouth	5–10 (3)	388
11 Jul	9	59°02N	68°54W	Leaf Bay	8–17 (3)	406
13 Jul	13	59°30N	69°00W	Hopes Advance Bay	4–41 (5)	83
17 Jul	18	60°02N	69°03W	East of Tuvalik	16–51 (3)	35
18 Jul	22	59°18N	68°57W	Inuksulik	2–5 (2)	424
20 Jul	1	58°39N	68°15W	Koksoak River mouth	3–21 (6)	1 013
10 Aug	33	59°13N	65°45W	Keglo Bay	7–13 (2)	364
11 Aug	37	59°05N	65°45W	Keglo Bay	0–1 (1)	30
17 Aug	41	59°34N	66°24W	West of Adlorilik	52 (1)	3
19 Aug	44	60°23N	64°50W	Forbes Sound	0–77 (3)	465
20 Aug	43	60°24N	64°50W	Port Burwell Harbor	0–4 (4)	192
1948						
10 Jul	53	58°38N	68°13W	Koksoak River mouth	0–9 (1)	106
14 Jul	54	58°55N	68°53W	Leaf Bay	0 (1)	113
24 Jul	56	58°37N	67°06W	Whale River	0 (1)	175
27 Jul	57	59°21N	66°00W	NW of Keglo Bay	7–40 (3)	285
02 Aug	60	60°20N	64°41W	Young Inlet, Burwell	0–15 (2)	85
04 Aug	62	60°29N	64°44W	Bush and Killinek Island	8–10 (2)	123
16 Aug	63	60°23N	64°49W	Forbes Sound	0 (1)	10
1949						
26 Jun	101	58°52N	66°23W	Beacon Island, George River	73–233 (2)	510
06 Jul	103	60°24N	64°58W	Jackson Island, W. Burwell	110–200 (2)	127
07 Jul	106	60°21N	64°50W	Cape William Smith	10–14 (1)	481
14 Jul	103	60°24N	64°58W	Jackson Island, W. Burwell	44–116 (2)	13
07 Aug	103	60°24N	64°58W	Jackson Island, W. Burwell	5–10 (1)	498
10 Aug	123	60°40N	64°42W	Button Islands	0–15 (4)	443
20 Aug	124	59°25N	69°00W	Inuksulik	0 (1)	322
1950						
28 Jun	201C	59°30N	65°21W	Adlorilik	1–20 (2)	185
15 Jul	206	60°45N	69°17W	Imilik	3 (1)	6
20 Jul	209	61°10N	69°33W	Cape Hopes Advance	75 (1)	22
21 Jul	211	61°03N	69°42W	Diana Bay, Koaktuk	0–1 (2)	59
03 Aug	222	62°45N	69°41W	Lake Harbour	1–8 (2)	63
03 Aug	223	62°43N	69°37W	Lake Harbour	7 (1)	474
25 Aug	228	58°52N	66°28W	Beacon Island, George River	0 (1)	2
26 Aug	230	59°30N	65°18W	Adlorilik	12–18 (1)	4
27 Aug	231	59°29N	65°15W	Adlorilik	5–57 (3)	168
28 Aug	201C	59°30N	65°21W	Adlorilik	13–87 (2)	569
31 Aug	234	59°31N	65°45W	Adlorilik	62–85 (2)	63
1951						
28 Jul	273			Lake Harbour	0–21 (1)	1
03 Jul	301	59°30N	65°20W	Adlorilik	110 (1)	849
Decapods, Total						10 936

¹Depths in meters.

TABLE 2. Numbers of various species of decapod crustacean larvae taken during the *MV CALANUS* Expeditions, 1947-51.

Species	No. of specimens at Stages					Total
	I	II	III	IV	Megalopa	
<i>Eualus fabricii</i>	19	28	7	3	4	61
<i>Eualus gaimardi</i>	56	22	8	6	†	92
<i>Lebbeus groenlandicus</i>	9	356	95	*	397	857
<i>Lebbeus polaris</i>	1	14	2	3	8	28
<i>Spirontocaris phippsi</i>	183	81	44	37	†	345
<i>Spirontocaris spinus</i>	236	313	58	43	5	655
<i>Pandalus borealis</i>	1	2	16	3	†	22
<i>Pandalus montagui</i>	22	32	12	3	†	69
<i>Argis dentata</i>	1 164	625	1	*	3	1 793
<i>Sabinea septemcarinata</i>	38	8	1	7	†	54
<i>Pagurus pubescens</i>	665	254	391	32	†	1 342
<i>Hyas coarctatus</i>	5 214	413	*	*	†	5 618
Grand Total Counted						10 936

† = not taken; * does not exist.

TABLE 3. Dates of occurrence in plankton hauls of larval Stages of various species of decapod crustaceans in Ungava Bay, 1947-51.

Species	Stage I	Stage II	Stage III	Stage IV	Megalopa
<i>E. fabricii</i>	26 Jun to 07 Jul	26 Jun to 20 Jul	26 Jun to 27 Aug	20-27 Aug	20-27 Aug
<i>E. gaimardi</i>	29 Jun to 14 Jul	26 Jun to 07 Jul	14 Jul to 26 Aug	19-26 Aug	-
<i>L. groenlandicus</i>	26 Jun to 07 Jul	24 Jun to 25 Aug	-	-	10-20 Aug
<i>L. polaris</i>	-	14 Jul to 26 Aug	26 Aug	20 Jul to 19 Aug	14-20 Aug
<i>S. phippsi</i>	26 Jun to 14 Jul	13 Jul to 03 Aug	20 Jul to 27 Aug	26 Aug	-
<i>S. spinus</i>	03-20 Jul	29 Jun to 27 Jul	13 Jul to Aug 03	10-28 Aug	10 Aug
<i>P. borealis</i>	11-27 Jul	14-27 Jul	Jul 20 to Aug 27	03-25 Aug	-
<i>P. montagui</i>	24 Jun to 20 Jul	03 Jul to 26 Aug	17-28 Aug	26-28 Aug	-
<i>A. dentata</i>	24 Jun to 14 Jul	10 Jul to 07 Aug	-	-	11-20 Aug
<i>S. septemcarinata</i>	03 Jul	13-20 Jul	03 Aug	14-27 Aug	-
<i>P. pubescens</i>	24 Jun	24 Jun to 20 Jul	13 Jul to 04 Aug	14-27 Aug	-
<i>H. coarctatus</i>	24 Jun to 20 Aug	19 Aug	-	-	-

TABLE 4. Summary of characteristics of larvae of *Eualus fabricii* and *Eualus gaimardi* from present observations and Haynes (1985) and Pike and Williamson (1964).

	Stages of <i>Eualus fabricii</i>					Stages of <i>Eualus gaimardi</i>				
	I	II	III	IV	V	I	II	III	IV	V
Total length (mm)	5	6	7	8	9	5	6	7	8	10
Rostrum	Long, 1/2 cl					Long, 1/3 cl				
Rostral teeth	0	0	0	0	—	0	0	0	0	2
Supraorbital spine	0	+	+	+	—	0	+	+	+	—
Antennal scale setae	12	16	22	25	34	12	16	20	17	—
Scaphognathite setae	6	7	20	24	25	3	10	20	—	—
Anteroventral denticles	2	0	—	—	—	3	3,4	—	—	—
Pereopods with exopods	I – III					I – III				
Distal setae on exopod	Mxp 1	Mxp 2	Mxp 3	Mxp 3	Mxp 1	Mxp 2	Mxp 3			
Stage I	4	5	5	5	5	7	7			
Stage II	4	9	10	10	5	9	9			
Abdominal somite spines	On 4 and 5					On 5 only				

TABLE 5. Summary of characteristics of larvae of *Eualus macilentus* from Ivanov (1971) and *Eualus pusiolus* from Bull (1938).

	Stages of <i>Eualus macilentus</i>					Stages of <i>Eualus pusiolus</i>				
	I	II	III	IV	V	I	II	III	IV	V
Total lengths (mm)	3					2				
Rostrum	small					small spine				
Anterolateral denticles	4					3				
Ant. and post. tubercles						+				
Antennal scale setae						8				
Antennal scale segments						5				
Spines on abd. somites						0				
Scaphognathite setae						3+2				
Setae on exopods of										
Maxilliped I	4					5				
Maxilliped II	5					5				
Maxilliped III	5					5				
Telson spines terminal	7+7					6+6				
Pereopods – exopods	I–III					I–III				
Pleopods										

TABLE 6. Summary of characteristics of larvae of *Lebbeus groenlandicus* and *Lebbeus polaris* from present observations and Haynes (1985) and Pike and Williamson (1964).

	Stages of <i>Lebbeus groenlandicus</i>				Stages of <i>Lebbeus polaris</i>			
	I	II	III	Megalopa	I	II	III	Megalopa
Total length (mm)	8-9	8-11	9-11	8-11	6-7	7-8	8-9	9-10
Rostrum	Long, 2/3 cl, equal to eye-stalk			Short thick	Styliform, 1/2 cl.			Short
Supraorbital spine	0	+	+	+	-	+	+	+
Ant. and post. tubercle	+	+	+	0	+	+	+	-
Antennal scale setae	9-11	25	-	37	11	35	30	48
Anteroventral denticles	3	3	-	0	-	0	0	0
Scaphognathite setae	29+1	35+3	-	30+5	25+1	30	25	33+7
Pereopods with exopods	0 (but small lobe in I)				0 (but small lobe in I)			
Abdominal somite spines	4,5				4,5			
Pleopods	Bilobed, with a.i. in I				Bilobed, with a.i. in II			
Telson spines	11+11	11+11	-	3+3	9+9	9+9	-	2+4+2

TABLE 7. Summary of characteristics of larvae of *Spirontocaris phippsi* and *Spirontocaris spinus* from present observations and Haynes (1985) and Pike and Williamson (1964).

	Stages of <i>Spirontocaris phippsi</i>					Stages of <i>Spirontocaris spinus</i>				
	I	II	III	IV	V	I	II	III	IV	V
Total length (mm)	6	8	9	10	-	5	7	8	9	-
Supraorbital spine	+	+	+	+	+	+	+	+	+	+
Ant. and post. tubercle	Both present					Both present				
Anteroventral dent.	0	0	0	0	0	4	4	3	0	0
Antennal setae	11	29	-	25	-	10	21	16	30	-
Scaphognathite setae	35	37	31	32	-	4	10	10	20	20
Pereopod exopods	I-II					I-II				
Abd. somite spines	On 4 and 5					On 4 with tuft of setae, and 5				
Telson spines	7+7	8+8				7+7	8+8 (centre pr. very small)			

TABLE 8. Summary of characteristics of larvae of *Pandalus borealis* and *Pandalus montagui* from present observations and from Pike and Williamson (1964) and Wienberg (MS 1975).

	Stages of <i>Pandalus borealis</i>					Stages of <i>Pandalus montagui</i>			
	I	II	III	IV	V	I	II	III	IV
Total length (mm)	–	5–7	7–8	8–9	9–10	3–4	4–5	4–6	5–7
Length of rostrum		1/2 eye = eye				1/3 eye			
Rostral teeth	0	0	1,2	3	5/0	0	0	0	2
Supraorbital spine	0	+	+	–	–	0	0	+	+
Ant. and post. tubercle	+	+	0	0	–	+	+	+	+
Denticles, anteroventral	3–4	2–5	–	–	–	3	2	2	–
Antennal scale setae		15	20	30		8	10	12	22
Scaphognathite setae		11	16	28		3	3	7	20
Pereopod exopods		I–III				I–III			
Setae on exopods of	Mxp I	Mxp II		Mxp III		Mxp I	Mxp II		Mxp III
Stage I						4	9		9
Stage II	5	13		16		5	10		10
Stage III	7	14		16		5	10		12
Pleopods	0	0		buds		0	0		buds
Abdominal somite spines		None				None			
Telson spines	7+7	8+8		8+8		7+7	8+8		8+8
									middle pr very short

TABLE 9. Summary of characteristics of larvae of *Dichelopandalus bonnieri* and *Pandalus propinquus* (Pike and Williamson (1964), and Lebour (1940)).

	Stages of <i>Pandalus propinquus</i>					Stages of <i>Dichelopandalus bonnieri</i>					
	I	II	III	IV	V	I	II	III	IV	V	
Total length (mm)	4	5	7	9	11	5	6	8	10	12	
Supraorbital spine		Present in all stages					Present in all stages				
Rostral teeth	0	0	3	7	9	0	1	3	7	9	
Ant. and post. tubercle		Both present				Anterior only					
Denticles, anteroventral		Present, 4, 5				Present, 6–8 (larger)					
Antennal scale setae						10	20	25	25	25	
Pereopod exopods		I–III				I–III					
Setae on exopods		Mxp I	Mxp II	Mxp III		Mxp I	Mxp II		Mxp III		
Stage I		4	5	5		4	5		5		
Pleopods		0	Buds	Buds		0	Buds		Buds		
Abdominal somite spines		On 5th only				On 5th only					
Somite denticles on	4,5	4,5	–	–	–	3,4	–	–	–	–	
Dorsal carina on 3rd		Present (larger)				Present					
Telson spines	7+7	8+8				7+7	8+8				

TABLE 10. Summary of characteristics of larvae of *Argis dentata* from Squires (1964) and *Crangon septemspinosa* from Needler (1941).

	Stages of <i>Argis dentata</i>					Stages of <i>Crangon septemspinosa</i>				
	I	II	III	IV	M	I	II	III	IV	M
Total length (mm)	9	10			12	2	2.2	3	3.5	4
Supraorbital spines	0	0			0	0	0	0	0	0
Ant. or post. tubercles	0	0			0	0	0	0	0	0
Denticles, anteroventral	3	2			0	3	2	2	0	0
Antennular segments	3	3s			3s	1	3	3	3s	3s
Antennal scale setae	20	25			35	4	8	–	15	–
Scaphognathite setae	4+2	13+2			35+4	5	–	–	–	–
Apical setae on exopods										
Maxilliped I	4	4			4	4	–	–	6	–
Maxilliped II	5	6			6	6	–	–	–	–
Maxilliped III	5	6			5	6	–	–	–	–
Exopods on pereopods	1 rud	1 rud			0	0	0	1	1	1
Pleopods	+	+			+	0	0	0	bud	+
Telson spines	8+8	8+8			8+8	7+7	8+8	8+8	8+8	–
Spine on abd. somite	5	5			0	5	5	5	5	0
Med. spine on abd. somite	0	0			0	3	3	3	3	0

TABLE 11. Summary of characteristics of hermit crabs *Pagurus acadianus* (Roberts (1968, 1973)) and *P. pubescens* present observations.

	Stages of <i>Pagurus acadianus</i>				Stages of <i>Pagurus pubescens</i>			
	I	II	III	IV	I	II	III	IV
Total length (mm)	3	4	5	6	4	6	7	8
Antennal scale L X W		5–7 times			9	9	7	11
Antennal flagellum		styliform				bifid		
Antennal scale setae	7	8	7	7	6	8	8	9
Scaphognathite setae	5	7	10	15	1(?)	4	8	14
Exopod setae								
Maxilliped I	4	7	8	8	4	6	5	8
Maxilliped II	4	7	8	8	4	6	6	8
Maxilliped III	–	6	6	7	–	6	6	8
Uropod exopod setae		4 + 1 spine				5 + 2 spines		

TABLE 12. Summary of characteristics of spider crabs *Hyas araneus* (Christiansen, 1973) and *Hyas coarctatus* (Christiansen, 1973 and present observations). Present observations are given in parentheses.

	Stages of <i>Hyas araneus</i>		Stages of <i>Hyas coarctatus</i>	
	I	II	I	II
Sizes at Stages (mm) tip dorsal-tip rostral spine)	4	5	3 (4-5)	4 (5-6)
Outermost spinules on distal two-thirds of rostral spine	Moderate Shorter than spine width		Stout Longer than width of rostral spine	
Scaphognathite setae	7-9	15-20	8-10 (12)	19-22 (25)
Spine on abdominal somite 5	Short		Shorter than in <i>H. araneus</i>	