

June 17, 1976

FORM APPROVED
O.M.B. No. 41-R2651

U.M.B. No. 41-R2651
TR0498-TR0503

F124

RECEIVED

~~JUN 24 1976~~

NEGOTIA

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

Institute of Marine Science
University of Alaska
Fairbanks, Alaska 99701

NOAA / BLM
Outer Continental Shelf Environmental
Assessment Program.
FY 1975 data 200 plankton.

DATA IN THIS SHIPMENT
R/UAcona 193, 200, 202, 207
Oceanographer 805
Townsend Cromwell 807
NEGOA 2

R/V. Bona
Oceanographer
Townsend Cromwell

ship.

PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR
USA	UGA 193	7/1/74	7/10/74
	200	10/8/74	10/8/74
	202	11/18/74	11/20/74
	207	2/21/75	3/27/75

☒ NO ☐ YES

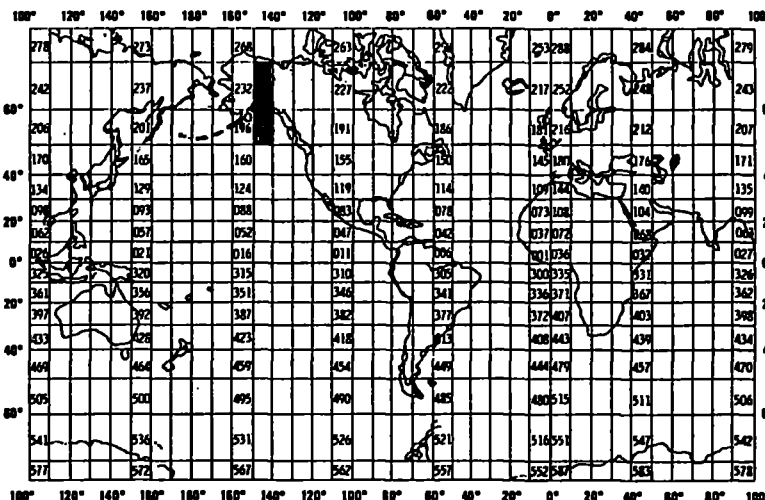
IF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH

805 2/19/75 2/29/75
807 5/6/75 5/14/75

(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

☒ NO ☐ YES ☐ PART (SPECIFY BELOW)

Dr. R. T. Cooney
R. S. Hadley



MAGNETIC TAPE LABEL/RECEIPT

Job. No.	User Name 031	PL 5	Task No.	Date 11/1/76
Reel No. 1 of 1	Density 200/ 556/800/660	Drive #	Master Reel #	
Track 7/3	Tape New/Used	Storage Location	Packed BCD/BINARY/ASCII	Decimal/EBCDIC/ BCD/BINARY/ASCII
Data Description Disk to tape				
Remarks/Special Entries/Title/Job Name DSN = Conney				
Vol-Ser. 5272	LRCL SU	Blk. Pct. 20	Release Authorized by	Date Released

NOAA Form 47-29
(4-73)

U. S. DEPT. OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADM.

TRANSLATOR TAPE: VOL-0005
10291, 80 X 20, SL 9 TRK,
1600 BPI EBCDIC
DSN = NEG0A2

COPY OF TRANSLATOR TAPE:

VOL = SER = 004195 80 X 20, SL
9 TRK, 1600 BPI, EBCDIC,
DSN = NEG0A2

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Plankton Zooplankton Species.	Taxon Code Number of cells/ sample.	Tucker Trawl/ 1-m Ring net/Bongo Net	see procedures enclosed	see procedures enclosed.

June 17, 1976

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

Record types 1-5 (see following format for description)
Total No. of Records = 3148

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

VOL= SER= 005272, DSN= COONEY, 9 TK, SL,
DCB= (RECFM= FB, LRECL= 80, BIKsize= 1600)

VOL= SER= 004195 DSN= NEGOT 2 80 X 20 9 TK
SL, FB (COPY OF TRANSLATOR tape)

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____

ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☐ ASCII ☒ EBCDIC ☐ _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☒ 3/4 INCH ☐ _____
6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____	10. END OF FILE MARK ☐ OCTAL 17 ☐ _____
7. PARITY ☐ ODD ☐ EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME KEY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) VOL= SER= 005272 DSN= COONEY NAPIs # 76-1458
8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____	12. PHYSICAL BLOCK LENGTH IN BYTES 1600 13. LENGTH OF BYTES IN BITS

ST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
VE METHOD OF IDENTIFYING EACH RECORD TYPE

MESA PUGET SOUND ZOOPLANKTON FORMAT

- Five record types:
- (1) File Header
 - (2) Station Header
 - (3) Haul Description
 - (4) Data Record - Zooplankton Identification
 - (5) Text Record

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

ORIGINAL DATA SENT ON
PUNCHED CARDS. CONVERTED
TO TAPE IN HOUSE

CONTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☐ ASCII ☒ EBCDIC ☐ _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☒ 3/4 INCH ☐ _____
6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☒ NINE ☐ _____	10. END OF FILE MARK ☐ OCTAL 17 ☐ _____
7. PARITY ☒ ODD ☐ EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER) Tape No. 7402 DSN = PUGET 1
8. DENSITY ☐ 200 BPI ☒ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____	12. PHYSICAL BLOCK LENGTH IN B 4000 13. LENGTH OF BYTES IN BITS 8

MESA Puget Sound
Zooplankton Format
"024"
page 1
15 July, 1976

RECORD FORMAT DESCRIPTION

RECORD NAME FILE HEADER

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	I3	always "024"
File I.D.	4	6	"	A6	cruise number or date
Record Type	10	1	"	I1	always "1"
Vessel	11	11	"	A11	
Cruise No.	22	6	"	A6	
Cruise Dates	28	17	"	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX beginning year/month/day ending year/month/day
Area/Project	45	19	"	A19	left justified
Investigator/ institution	64	17	"	A17	left justified

MESA Puget Sound
Zooplankton Form
"024"
page 2
15 July, 1976

RECORD FORMAT DESCRIPTION

RECORD NAME STATION HEADER

FIELD NAME	15. POSITION FROM -1 MEASURED IN <u>bytes</u> (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	I3	always "024"
File I.D.	4	6	"	A6	cruise number or date
Record Type	10	1	"	I1	always "2"
Station Number	11	5	"	A5	
Latitude					
degrees	16	2	"	I2	
minutes	18	2	"	I2	
seconds	20	2	"	I2	
hemisphere	22	1	"	A1	"N" or "S"
Longitude					
degrees	23	3	"	I3	
minutes	26	2	"	I2	
seconds	28	2	"	I2	
hemisphere	30	1	"	A1	"E" or "W"
Date/Time					
year	31	2	"	I2	} GMT
month	33	2	"	I2	
day	35	2	"	I2	
hour	37	2	"	I2	
minutes	39	2	"	I2	
Depth to Bottom	41	5	"	I5	in whole meters
Sample Elevation					
upper limit	46	4	"	I4	in whole meters
lower limit	50	4	"	I4	in whole meters
Blank	54	27	"	27X	

MESA Puget Sound
Zooplankton Format
"024"
page 3
15 July, 1976

RECORD FORMAT DESCRIPTION

RECORD NAME HAUL DESCRIPTION

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>bytes</u> (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	I3	always "024"
File I.D.	4	6	"	A6	unique cruise number or date
Record Type	10	1	"	I1	always "3"
Station Number	11	5	"	A5	
Gear Code	16	2	"	A2	use file 024 gear code list
Mesh Size	18	4	"	I4	in whole microns
Duration of haul	22 ✓	3	"	I3	hours to tenths
Length of haul	25	4	"	I4	in whole meters
Volume of water filtered	Blank 29	4	"	I4	in whole cubic meters
Total settled volume	33	4	"	I4	in whole milliliters
Total water displaced	37	4	"	I4	in whole milliliters
Total dry weight	41	7	"	I7	grams to hundredths
Total wet weight	48	7	"	I7	grams to hundredths
Blank	55	26	"	26X	
Volume of water filtered	55	6	"	I6	in whole cu m
Blank	61	20	"	20X	

RECORD FORMAT DESCRIPTION

RECORD NAME DATA RECORD - ZOOPLANKTON IDENTIFICATION

FILE NAME	15. POSITION FROM - 1 MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	I3	always "024"
File I.D.	4	6	"	A6	unique cruise number or date
Record Type	10	1	"	I1	always "4"
Station Number	11	5	"	A5	
Sample Number	16	4	"	A4	
Taxonomic Code	20	10	"	5A2	use project taxonomic code which is the same for all project formats
Life History Code	30	1	"	A1	use file 024 life history code
Subsample size	31 ✓	4	"	I4	percent of total haul to tenths
Subsample count	35	5	"	I5	
Concentration	40 ✓	6	"	I6	count per cubic meter
Weight	46	7	"	I7	grams to thousandths
Wet weight	53	7	"	I7	grams to thousandths'
Number of adults	60	5	"	I5	
Number of juveniles	65	5	"	I5	
Blank	70	11	"	11X	

NOTE: There are two ways that this record type can be used

- if weights are measured for each life history stage, then a record will be created for each stage, and bytes 60-80 will be blank.
- if all measurements other than counts will be total measurements, then "A" will be used for the life history code, and adult and juvenile counts will be listed in bytes 60-69. Only one record per species will then be required.

MESA Puget Sound
Zooplankton Format
"024"

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RECORD FORMAT DESCRIPTION

RECORD NAME TEXT RECORD

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN <u>bytes</u> (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	bytes	I3	always "024"
File I.D.	4	6	"	A6	unique cruise number or date
Record Type	10	1	"	I1	always "5"
Station Number	11	5	"	A5	
Sequence Number	16	4	"	I4	to enable ordering of text records upon retrieval.
Text	20	61	"	61A1	

MESA Puget Sound
Zooplankton Form
"024"
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FILE 024 GEAR CODE

- 01 - 3/4 meter ring net
- 02 - 1 meter ring net
- 03 - 1 meter NIO (National Institute of Oceanography) net
- 04 - 60 centimeter Bongo net
- 05 - 60 centimeter vertical closing ring net
- 06 - 1 foot ring net

07 - *Samoyet. Ab. T. 2, 1, 1*

08
07

LIFE HISTORY CODE

- blank - no information
- 0 - indeterminable
- 1 - egg
- 2 - nauplius
- 3 - zoea
- 4 - megalop
- 5 - veliger
- 6 - larva
- 7 - juvenile
- 8 - adult
- 9 - combination of larvae, juveniles and adults
- A - combination of juveniles and adults
- B - combination of larvae and juveniles
- C - juvenile/adult - sexual maturity unknown

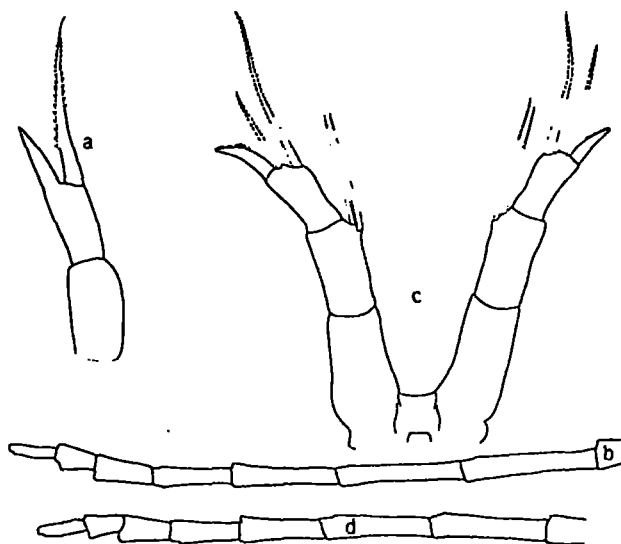


FIGURE 19.—*Rhinocalanus rostrifrons*, ♀: a, 5th leg; b, distal segments of 1st antenna, dorsal. *Rhinocalanus cornutus*, ♀: c, 5th legs; d, distal segments of 1st antenna, dorsal.

association, the other also a constituent of the shelf association but much less common. The two species were not distinguished at first, and both were enumerated as *P. parvus* in the counts of Cruises 1-3. When I realized that I was lumping two species I examined them in detail and concluded that the less common species is identical with the *P. parvus* of Giesbrecht, which I consider to be *P. indicus* Wolfenden (see under *P. indicus*) and the common species is an undescribed species which I propose to name *Paracalanus quasimodo*.

Paracalanus quasimodo, new species

FIGURES 20-21, 22a

SYNONYMY.—Probably many references to western Atlantic specimens of "*Paracalanus parvus*," summarized by González and Bowman (1965), are attributable to *P. quasimodo*.

DIAGNOSIS.—Female. In *Parvus* group. Body rather stocky for a *Paracalanus*, about 1.0 mm in length. Prosome about 3 times as long as urosome, with characteristic dorsal hump similar to those in some species of *Acrocalanus* but less strongly developed. Forehead not vaulted. Head fused with 1st pedigerous somite; 4th and 5th pedigerous somites separated by indistinct suture. Genital segment rather

broad in relation to length; lateral part of posterior margin sometimes armed with row of minute spinules; lateral surface with cluster of spinules on either side, anterior and dorsal to spermatheca. Spermatheca obovate, distal half often narrower than proximal half. Remaining urosomites relatively broader and shorter than those of *P. indicus*. Antenna 1, 25-merous, often broken at suture between segments 8 and 9, reaching to about posterior margin of caudal ramus.

Legs 1-4 with surface armature as shown in Figures 20h-k; pattern very similar to that of *P. indicus*; basipod conspicuously spinose. Leg 5, terminal spine longer than 2nd segment.

Male. Genital segment with cluster of spinules on either side, otherwise identical with *P. indicus*.

The name is derived from the protagonist of Victor Hugo's classic novel, *The Hunchback of Notre Dame*, and alludes to the distinctive shape of the prosome.

TYPES.—Holotype ♀ (USNM 134484) and allotype ♂ (USNM 134485) from Cruise 4, Station 57, 27 October 1953, off Florida, 33°34'N, 78°24'W.

Paracalanus indicus Wolfenden, new rank

FIGURES 22b-m, 23a

Paracalanus parvus (Claus).—Giesbrecht, 1892:164-199, pls. 1, 6, 9.—Sewell, 1929:68-71, figs. 24-25.

Paracalanus parvus var. *indicus* Wolfenden, 1905:998, pl. 96: figs. 7, 9-11.

DIAGNOSIS.—Female. Body more slender and slightly shorter than *P. quasimodo*, length about 0.9 mm. Prosome about 3.2 times as long as urosome; dorsal hump only slightly or not at all developed, hence prosome not so high in relation to its length as in *P. indicus*. Forehead not vaulted. Genital segment, viewed dorsally, narrower than in *P. quasimodo*, lateral parts of posterior margin with row of minute spinules, without cluster of spinules above spermatheca. Spermatheca subelliptical, not narrowing distally.

Antenna 1 reaching about to posterior margin of anal segment. Armature of legs very similar to that of *P. quasimodo* but slightly less strongly developed.

Male. Identical to *P. quasimodo* except for the lack of spinules on the genital segment.

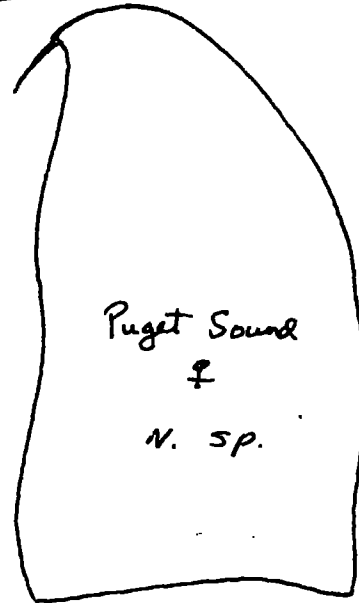
DOCUMENTATION OF
NEW SPECIES
IN THIS DATASET

→ [Paracalanus m. sp. 5311030199]

Paracalanus

J.H.T.E. Bowman

Nov. 25, 1974



spermatheca



Paracalanus m. sp. is quite similar to Paracalanus quasimodo Bowman (1971). Bowman himself has pointed out in the above sketch the most conspicuous differences between the two, i.e., overall size and shape of the prosome and spermatheca.

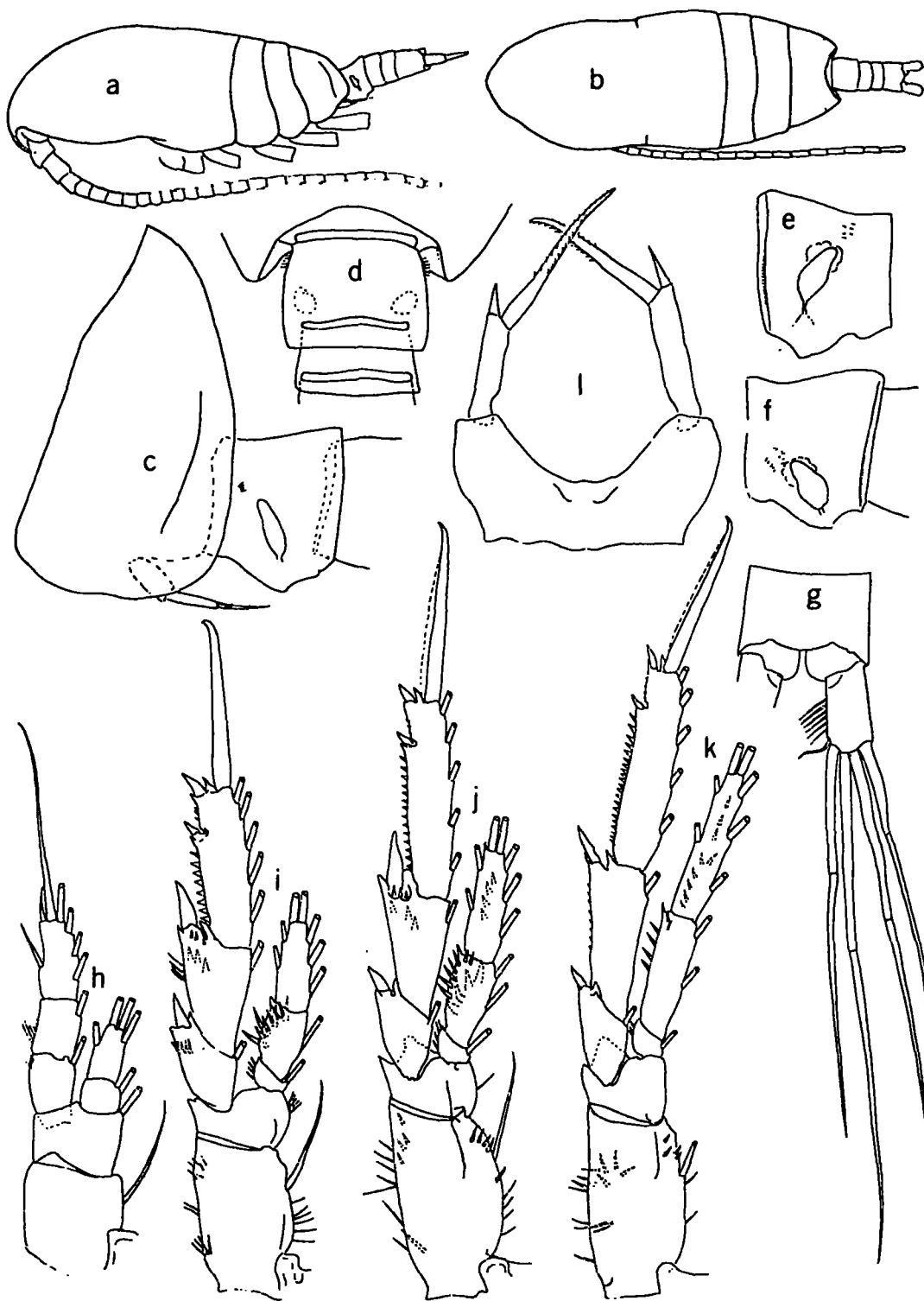


FIGURE 20.—*Paracalanus quasimodo*, new species, ♀: a, lateral view; b, dorsal view; c, 5th pedigerous and genital segments, lateral; d, same, dorsal; e-f, right and left sides of genital segment; g, anal segment and caudal rami, dorsal; h-k, legs 1-4.

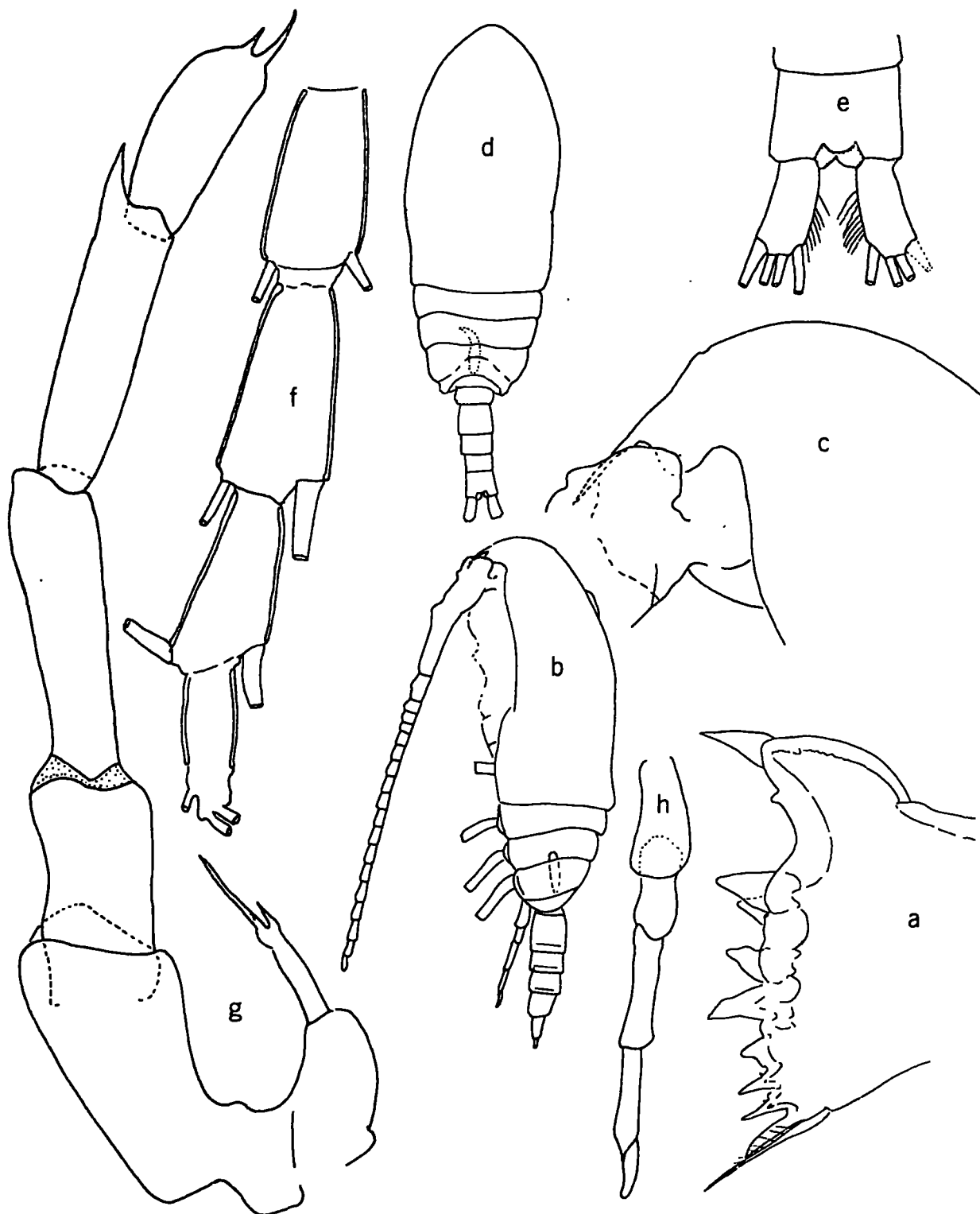


FIGURE 21.—*Paracalanus quasimodo*, new species: *a*, mandibular blade, ♀; *b–h*, ♂: *b*, lateral view; *c*, head and base of antenna 1, lateral; *d*, dorsal view; *e*, anal segment and caudal rami, dorsal; *f*, distal segments of antenna 1; *g*, leg 5, anterior; *h*, left leg 5, lateral.

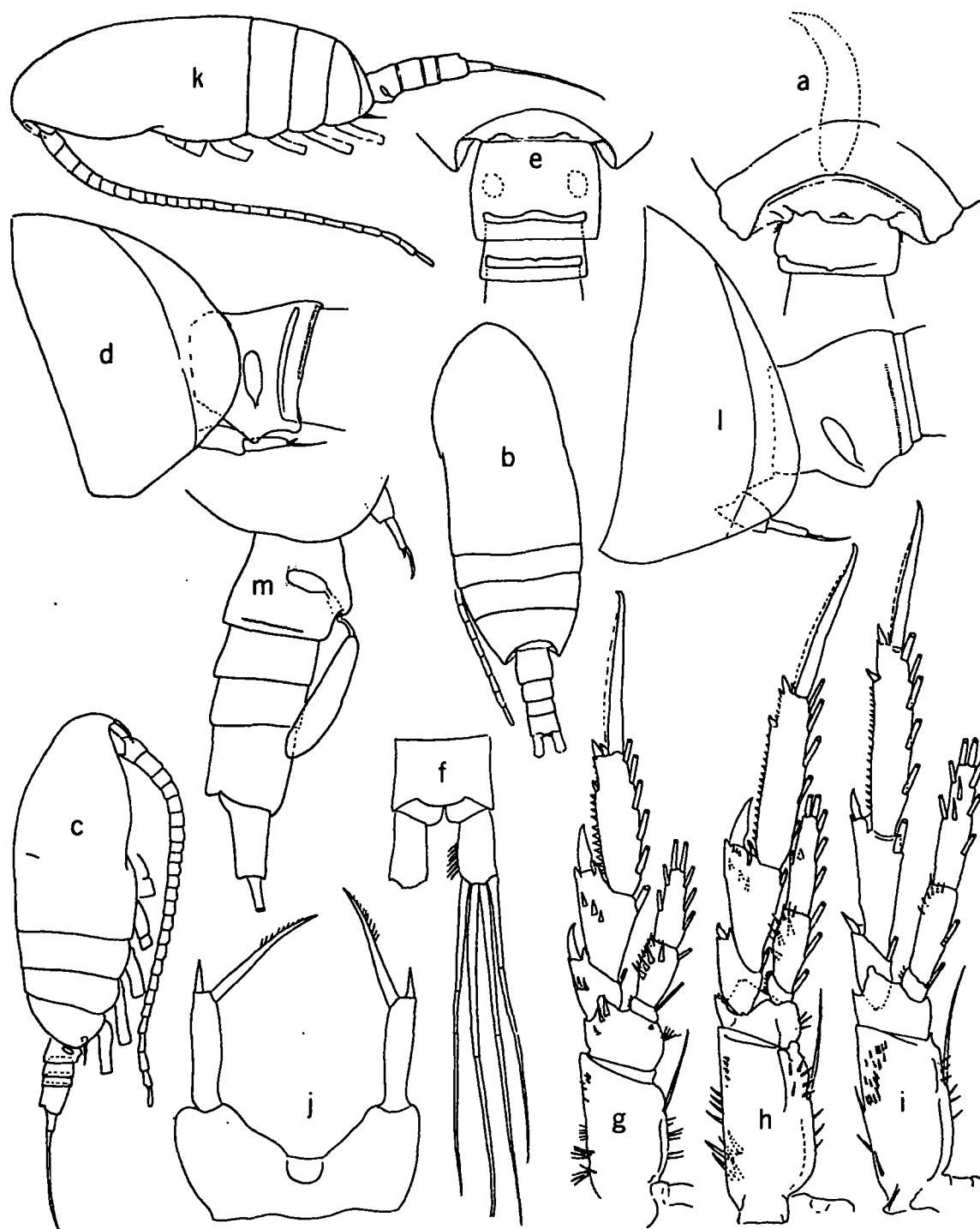


FIGURE 22.—*Paracalanus quasimodo*, new species, ♂: a, posterior prosome and genital segment, dorsal. *Paracalanus indicus*, ♀: b–j, from Gill Cruise 4, Station 35: b, dorsal view; c, lateral view; d, posterior prosome and genital segment, lateral; e, same, dorsal; f, anal segment and caudal rami, dorsal; g–j, legs 2–5. k–l, from Gulf of Naples: k, lateral; l, posterior prosome and genital segment, lateral. m, from Martinique, West Indies; urosome and spermatophore, lateral.

024RTCZ01400026000149070301018100000001	00001
024RTCZ01400026000153110102018100000004	00004
024RTCZ01400026000153110100008100000001	00001
024RTCZ01400026000153318303018100000001	00001
024RTCZ01400026000153320201018100000912	00912
024RTCZ01400026000153320209078100000824	00824
024RTCZ01400026000153331703006100000009	00009
024RTCZ01400026000179161115038100000001	00001
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024RTCZ01400026000233012702018100000001	00001
024RTCZ01400026000234020101008100000001	00001
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024RTCZ01400026000249055101028100000001	00001
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024RTCZ01400026000253320209078100000736	00736
024RTCZ01400026000253331703006100000010	00010
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024RTCZ01400045000149055005028100000002	00002
024RTCZ01400045000149070301018100000001	00001
024RTCZ01400045000153110102018100000096	00096
024RTCZ01400045000153318201018100000001	00001
024RTCZ01400045000153318303018100000001	00001
024RTCZ01400045000153320201018100015488	15488
024RTCZ01400045000153320209078100000576	00576
024RTCZ01400045000153320209058100001216	01216
024RTCZ01400045000153320200008100000096	00096
024RTCZ01400045000153331703006100000192	00192
024RTCZ01400045000179050608018100000004	00004
024RTCZ01400045000179160920181000000002	00002
024RTCZ01400045000179150414008100000011	00011
024RTCZ01200045592454N1435548W7505100730	00000250
024RTCZ01300045082200	
024RTCZ01400045000233012702018100000002	00002
024RTCZ01400045000233015303038100000004	00004
024RTCZ01400045000233020601028100000001	00001
024RTCZ01400045000233020000008100000001	00001
024RTCZ01400045000249055005028100000001	00001
024RTCZ01400045000253318201018100000001	00001
024RTCZ01400045000253318303018100000005	00005
024RTCZ01400045000253320201018100000018	00018
024RTCZ01400045000253320209078100000012	00012
024RTCZ01400045000253320209058100000029	00029
024RTCZ01400045000253320200008100000004	00004
024RTCZ01400045000279040901018100000001	00001
024RTCZ01400045000279050608018100000005	00005
024RTCZ01400045000279150200008100000001	00001
024RTCZ01200045592454N1435548W7505100849	00000050
024RTCZ01300045082200	008404
024RTCZ01400045000333010205008100000001	00001
024RTCZ01400045000333012702018100000026	00026
024RTCZ01400045000334010201008100000001	00001
024RTCZ01400045000371000003038100000002	00002
024RTCZ01400045000349055101028100000003	00003

RECORD FORMAT DESCRIPTION

RECORD NAME

June 17, 1976

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
as per	record File		Type	'024	Zooplankton approved M. Petta 76/05/06

1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE.
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE

Six (6) record types: File Header Record (1); Location Record (2);
Total Haul Data Record (3); Subsample Data Record (4); and Text Record (5);
Subsample Data 2 Record (6); differentiated by byte 10.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL
☒ FORTRAN ☐ _____ LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE ☐ BCD ☐ BINARY ☐ ASCII ☐ EBCDIC ☐ _____	9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH ☐ _____
6. NUMBER OF TRACKS (CHANNELS) ☐ SEVEN ☐ NINE ☐ _____	10. END OF FILE MARK ☐ OCTAL 17 ☐ _____
7. PARITY ☐ ODD ☐ EVEN	11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)
8. DENSITY ☐ 200 BPI ☐ 1600 BPI ☐ 556 BPI ☐ 800 BPI ☐ _____	
12. PHYSICAL BLOCK LENGTH IN BYTES _____	
13. LENGTH OF BYTES IN BITS _____	

RECORD FORMAT DESCRIPTION

3-21-76

RECORD NAME File Header (Zooplankton)

2

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
✓ Vessel	11	11	Bytes	A11	
✓ Cruise	22	6	Bytes	A6	
Cruise Dates	28	17	Bytes	I2,5(A1,I2)	XX/XX/XX-XX/XX/XX Beginning year, month, day; ending year, month, day
Area/Project	45	19	Bytes	A19	Left justified
Investigator/ Institution	64	17	Bytes	A17	Left justified

RECORD FORMAT DESCRIPTION

3-31-76

RECORD NAME Location (Zooplankton)

3

14. FIELD NAME	15. POSITION FROM -1, MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
✓ Station Number	11	5	Bytes	A5	
✓ Latitude,					
Degrees	16	2	Bytes	I2	
Minutes	18	2	Bytes	I2	
Seconds	20	2	Bytes	I2	
Hemisphere	22	1	Bytes	A1	'N' or 'S'
✓ Longitude,					
Degrees	23	3	Bytes	I3	
Minutes	26	2	Bytes	I2	
Seconds	28	2	Bytes	I2	
Hemisphere	30	1	Bytes	A1	'E' or 'W'
✓ Date in GMT,					
Year	31	2	Bytes	I2	
Month	33	2	Bytes	I2	
Day	35	2	Bytes	I2	
✓ Time in GMT,					
Hour	37	2	Bytes	I2	
Minute	39	2	Bytes	I2	
Depth to Bottom	41	5	Bytes	I5	To whole meters
Sample Interval,					
Upper	46	4	Bytes	I4	To whole meters
Lower	50	4	Bytes	I4	To whole meters
Blank	54	27	Bytes	27X	

RECORD FORMAT DESCRIPTION

7-22-16

RECORD NAME Total Haul Data (Zooplankton)

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
✓ Station Number	11	5	Bytes	A5	
Gear Code	16	2	Bytes	A2	(use File 024 Gear Code)
Mesh Size	18	4	Bytes	I4	In microns
Duration	22	3	Bytes	I3	Hours to tenths
Haul Length	25	4	Bytes	I4	To whole meters
Blank	29	4	Bytes	4X	
Total Settled Volume	33	4	Bytes	I4	To whole milliliters
Total Water Displaced	37	4	Bytes	I4	To whole milliliters
Total Dry Weight of Haul	41	7	Bytes	I7	Grams to hundredths
Total Wet Weight of Haul	48	7	Bytes	I7	Grams to hundredths
Volume of Water Filtered	55	6	Bytes	I6	To whole cubic meters
Blank	61	20	Bytes	20X	

RECORD NAME Subsample Data (Zooplankton)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Taxonomic Code	20	10	Bytes	5A2	
Life History Code	30	1	Bytes	A1	
Size of Sub- Sample	31	4	Bytes	I4	Percent to tenths
Number in Sub- Sample	35	5	Bytes	I5	
Concentration	40	6	Bytes	I6	Number per cubic meter
Dry Weight	46	7	Bytes	I7	Grams to thousandths
Wet Weight	53	7	Bytes	I7	Grams to thousandths
Number of Adults	60	5	Bytes	I5	Whole number
Number of Juveniles	65	5	Bytes	I5	Whole number
Number of Eggs	70	5	Bytes	I5	Whole number
Number of Larvae	75	5	Bytes	I5	Whole number
Blank	80	1	Bytes	1X	
Note: There are two possible ways this record type can be used. If, for example, dry weights were to be measured for each Life History Stage, then a record type 4 will be created for each stage indicated and bytes 60 through 80 will be blank. If all measurements other than counts will be total measurements then Life History Code will equal A and adults and juveniles may be reported on one record type 4.					

RECORD FORMAT DESCRIPTION

6

RECORD NAME Text (Zooplankton)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
✓ Station Number	11	5	Bytes	A5	
Sequence Number	16	4	Bytes	I4	
✓ Text	20	61	Bytes	61A1	

RECORD FORMAT DESCRIPTION

RECORD NAME Subsample Data 2 (Zooplankton)

7

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
File Type	1	3	Bytes	A3	Always '024'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '6'
Station Number	11	5	Bytes	A5	
Sample Number	16	4	Bytes	A4	
Taxonomic Code	20	10	Bytes	5A2	
Life History Code	30	1	Bytes	A1	
Size of Sub-Sample	31	4	Bytes	I4	Percent to tenths
Number in Sub-Sample	35	5	Bytes	I5	
Concentration	40	6	Bytes	I6	Number per cubic meter to thousandths
Dry Weight	46	7	Bytes	I7	Grams to thousandths
Wet Weight	53	7	Bytes	I7	Grams to thousandths
Number of Adults	60	5	Bytes	I5	Whole number
Number of Juveniles	65	5	Bytes	I5	Whole number
Number of Eggs	70	5	Bytes	I5	Whole number
Number of Larvae	75	5	Bytes	I5	Whole number
Blank	80	1	Bytes	1X	
Note: There are two possible ways this record type can be used. If, for example, dry weights were to be measured for each Life History Stage, then a record type 6 will be created for each stage indicated and bytes 60 through 80 will be blank. If all measurements other than counts will be total measurements then Life History Code will equal A and adults and juveniles may be reported on one record type 6.					

File 024 Gear Code

- 01 - 3/4 meter ring net
- 02 - 1 meter ring net
- 03 - 1 meter NIO (National Institute of Oceanography) net
- 04 - 60 centimeter Bongo net
- 05 - 60 centimeter Vertical closing ringnet
- 06 - 1 foot ring net
- 07 - Niskin bottle
- 08 - 2 meter Tucker net

Life History Code

blank - No information
0 - Indeterminable
1 - Egg
2 - Nauplius
3 - Zoea
4 - Megalop
5 - Veliger
6 - Larva
7 - Juvenile
8 - Adult
9 - Combination of 6, 7, and 8
A - Combination of 7 and 8
B - Combination of 6 and 7
C - Juvenile/adult - sexual maturity unknown

ZOOPLANKTON

ORner thinks
should have
some prim. prod.
phy. (temp & sal)
7-22-76
Plankton

File Header	FILE TYPE	FILE ID	VESSEL	CRUISE	START DATE			END DATE			AREA/PROJECT	INVESTIGATOR/INSTITUTION								
					YR	MO	DAY	YR	MO	DAY										
Location	FILE TYPE	FILE ID	STATION NUMBER	LATITUDE			LONGITUDE			DATE (GMT)	TIME (GMT)	DEPTH TO	SAMPLE INTERVAL	BLANK						
				DEG	MIN	SEC	N OF S	DEG	MIN	SEC	E OF W	YR	MO	DAY	HR	MIN	BOTTOM (M)	UPPER (M)	LOWER (M)	
Total Haul Data	FILE TYPE	FILE ID	STATION NUMBER	G. A. CODE	MESH SIZE (MICRON)	DURATION (HRS TO 1/10)	HAUL LENGTH (M)	BLANK	TOTAL SETTLED VOLUME (ML)	TOTAL WATER DISPLACED (ML)	TOTAL DRY WEIGHT OF HAUL (GRAMS TO 1/100)	TOTAL WET WEIGHT OF HAUL (GRAMS TO 1/100)	VOLUME OF WATER FILTERED (M ³)	BLANK						
Subsample Data	FILE TYPE	FILE ID	STATION NUMBER	SAMPLE NUMBER	TAXONOMIC CODE	LIFE HISTORY	SIZE OF SUBSAMPLE (% TO 1/10)	NUMBER IN SUBSAMPLE	CONCENTRATION (NO. PER M ³)	DRY WEIGHT (GRAMS TO 1/1000)	WET WEIGHT (GRAMS TO 1/100)	NUMBER OF ADULTS	NUMBER OF JUVENILES	NUMBER OF EGGS	BLANK					
Text	FILE TYPE	FILE ID	STATION NUMBER	SEQUENCE NUMBER	TEXT															

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALIBRATED (✓)
		YOUR ORGANIZATION (✓)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (✓)	BEFORE OR AFTER USE (✓)	BEFORE AND AFTER USE (✓)	ONLY AFTER REPAIR (✓)	ONLY WHEN NEW (✓)	
N/A. See procedures enclosed.									

June 17, 1976

Password:

accNo	fileA	refNo	proj	inst	ship	startDate	cruise	catId
7601458	F124	TR0498	0081	31I7	31AC	1974/07/02	193	300428
7601458	F124	TR0499	0081	31I7	31AC	1974/10/09	200	300429
7601458	F124	TR0500	0081	31I7	31AC	1974/11/18	202	300430
7601458	F124	TR0501	0081	31I7	31OC	1975/02/19	805	300431
7601458	F124	TR0502	0081	31I7	31AC	1975/03/22	207	300432
7601458	F124	TR0503	0081	31I7	31TC	1975/05/06	807	300433

(6 rows affected)

525

abstract

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7601458	F124	TR0498	31AC	26	677	74/07/02	74/07/10
7601458	F124	TR0499	31AC	6	230	74/10/09	74/10/11
7601458	F124	TR0500	31AC	1	38	74/11/18	74/11/18
7601458	F124	TR0501	31OC	32	971	75/02/19	75/03/01
7601458	F124	TR0502	31AC	6	253	75/03/22	75/03/26
7601458	F124	TR0503	31TC	35	1098	75/05/06	75/05/15

(6 rows affected)