

DATE:

TO:

FROM:

SUBJECT: Error Correction in Processing of Data Set - Accession # 82000 49

- 1) File Type: 124
- 2) Project Ident.: OCSEAP
- 3) Track Nos.: TR 8005 - TR 8020

I. Error Corrections as reported to Principal Investigator:

Error

Correction Completed (Check)

II. Additional error corrections:

Error

Correction Completed (Check)

See attached

III. Processor Name:

M. Lewis

1. Taxonomic Codes
TR8005 - codes 841T000, 84110/000 deleted
2. TR8006, station no. 4G34 changed to 4G33 to agree with master and other detail records
3. TR8007, ^④sta. 4G71; entered record type E, moved station no.; deleted decimal in col. 34.
④. Sta. 4G72 - changed (1) to zero.
4. Deleted Stations (no data)
TR8007 - 4G80
TR8009 - 4C55
TR8020 - 4C55
5. Corrected station numbers when part of number omitted (example) - 504L1 and followed by 504L1 within same station
6. Some track numbers mixed up - changed to agree with tracks within station number. (see prelim. check).
7. TR8015, sta. 9L2, year changed from 38 to 78.
8. TR8020, sta. 9L3 - juvenile #/species value deleted

TAPE OR DISK ASSIGNMENT SHEET
(MRL) 11/6/78
(Rev. 11/80)

ACQUISITION/TRACK NO.: 820049/TR8005-8020

TYPE OF TAPE	TAPE NUMBER	LABEL	LRECL	BLKSIZE	RECFM	REMARKS	# RECORDS
ORIGINATOR	OCSEAP	N	80	1600	FB		15,463
DUPLICATE	001834	N	80	1600	FB		15,463
REFORMATTED							
FIRST USER							
FINAL USER							
DISK FILE	DSN					REMARKS	# RECORDS
WORK DISK FILE	D15773* F124-TR8005						15,
EDITED DISK FILE							

National Oceanographic Data Center

August 10, 1981

OA/D/BI/SJH

Dr. Allan Vogel
VTN OREGON, Inc.
8285 S.W. Nimbus Avenue, Suite 151
Beaverton, OR 97005

Dear Allan:

I have received your list of corrections to the zooplankton data. We will make the necessary corrections before the data are final processed. Since none of the incorrect records or the taxonomic code corrections appear to affect the retrieval of data for your product request, we will continue to work on the contour product for these data while the data are corrected for the archives.

I am forwarding a copy of your letter to our taxonomic code specialist for her review and comments.

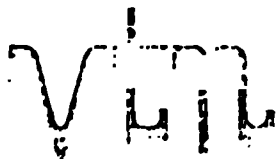
As I will be on leave until August 17, 1981, please contact Sid Halminski if you have any further questions concerning your request.

Sincerely yours,

Jim Audet

cc: Mary Hollinger
Mike Crane

bcc: Sid Halminski
Rick Rinn



Engineers • Planners • Environmental Consultants

VMI 611 604, INC.
Post Office Box 29186, Portland, Oregon 97225
8225 S.W. Fleming Avenue, Suite 151
Beaverton, Oregon 97005
(503) 644 5246

July 14, 1981

Mr. John J. Audet
Central Coordination and Referral Office
Environmental Data and Information Service
National Oceanographic Data Center
2001 Wisconsin Avenue, N.W.
Washington, D.C. 20235

Dear Jim,

Enclosed are our tape corrections and internal taxonomic code assignments as you requested on 2 July 1981. I have marked several species with an asterisk to indicate where I found taxonomic errors in our copy of the NODC taxonomic codes.

The genus Euchaeta (NODC Tax. Code = 61180801) is divided into two genera, Euchaeta and Pareuchaeta, although they were apparently lumped in the codes. The organism referred to as Euchaeta japonica (6118080128) is actually Pareuchaeta elongata (see Tanaka 1958 and Threlkeld 1973 for discussion of this taxonomic change), and so probably is synonymous with the Euchaeta elongata (6118080110) listed earlier in the NODC Taxonomic Code. It is my belief that, while the taxonomy of certain calanoid copepod genera is still being revised, euchaetid taxonomy has stabilized and the codes should be brought up to date.

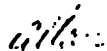
The cladoceran section of the NODC Taxonomic Codes contains a considerable amount of outdated and incorrect taxonomy. While marine scientists collecting zooplankton in the open ocean see few specimens of this order, cladocerans are common inshore. Two coastal areas in which I have worked, the Columbia River Estuary and the fjords of southeastern and south central Alaska, provided me with a number of specimens requiring an extension and/or revision of the order as presented in the NODC Taxonomic Codes. I have enclosed a list of the codes as presented on our copy of the codes along with my comments, and a taxonomic listing based upon my knowledge of the order and the literature (major sources were John L. Brooks' chapter in Freshwater Biology, 2nd Edition, 1959, edited by W.T. Edmondson; his 1957 monograph of the systematics of North American Daphnia; and Deevey and

Mr. John J. Zedler
July 14, 1981
Page Two

and Deevey's 1971 paper on American bosminids published in Limnology and Oceanography), plus my suggestions for a revision. I hope my comments will prove useful to you and your group.

Sincerely,

VTN OREGON, INC.



Allan H. Vogel
Research Oceanographer

AHV:sed

Enclosures

Corrections to tape: RU608.

Incorrect Record

TRKZ04B 4G14

TRKZ04G 4G14

TRKZ04D 4680

TRKZ17B 09L2 W380714

TRKZ21B 04C5

TRKZ21D 04C5

TRKZ21E 04Z6 61530/

TRK7.22B 04C5

TRKZ22C 04C5

TRKZ22D 04C5

TRKZ22G 04C5

TRKZ22E 0475 6174020102

TRKZ22C 04/8 3 1348

TRK722E 09L3 6118290103 6 . . . 1
57 61

columns

TRK722E 09L3 6118010206 4
12

Correct Record

delete line

delete line

delete line

TRKZ17C 09L2 W780714

TRKZ18E 09Z3

delete line

delete line

delete line

delete line

TRKZ21E 04Z6 615301

delete line

delete line

delete line

delete line

TRKZ22E 04Z5 6174020101 5.

TRK722C 04Z8 31 348

TRK722E 09L3 6118290103 _ _ _ 11 6 _ _ 1 _
38 42 57 61

delete

TRKZ22E 09L3 6118010206	5	4
	38	42 72

delete

ILLEGAL TAXONOMIC CODES

<u>VTN Code Used</u>	<u>NODC Correct Code (if known)</u>	
3700000001		Type A Medusae (probably a scyphozoan)
3703060900	3703060100	Sarsia sp.
3703060901	3703060101	S. rosaria
3703060902	3703060102	S. tubulosa
3703120203		Leuckartiara breviconis (S) (NO NODC code)
3703122101		Stomatoca atra NO CODE
3704040903		Melicerium octopunctata
3704040951		" "
3704090601		Staurophora mertensi (S)
3704130301		Eutonina indicans (S)
3705060201		Proboscidea flavicirrata
3717010302		Nanomia bijuga (check 3717010302)
5001140401		Rhynohocerella angelini
5001200106		Tomopteris planktonis
6125030100		Pneumoderopsis sp.
6125070100		Thliptodon sp.
6109020151		*Daphnia schodleri
6109020154		*D. schodleri
6109030201		*Eubosmina coregoni maritima
6111020102		Philomedes carcharodonta
6111020103		P. trituberculatus
6118080128		*Pareuchaeta elongata
6118080129		Euchaeta sarsi
6118160213		Metridia pacifica
6118170202		Limnocalanus macrurus
6122020105		Monstrilla canadiensis
6122020401		Cymbasoma rigidum
6134000001		Cirriped larvae, est.
6158000001	6158	Isopod sp. 1
6158000002	6158	Isopod sp. 2
6154000001		Cumacean sp. 1
8300000103		Eukrohnia bathypelagica
8300000104		Eukrohnia fowleri
9113	6118	copepods
6119130102	6118130100	lisbe sp.
8411000000	8411	Salps

NODC TAXONOMIC CODES
FOR CLADOCERA

6108	Branchiopoda Diplostraca Cladocera
6109	Branchiopoda Diplostraca Cladocera Eucladocera
610901	Sididae
6109010101	<u>Penilia avirostris</u> (1)
6109010201	<u>Diaphanosoma brachyurum</u>
6109010301	<u>Sida crystallina</u>
610902	Daphnidae (2)
6109020101	<u>Daphnia pulex</u>
6109020102	<u>Daphnia longispina</u> (3,4)
6109020201	<u>Simocephalus exspinosus</u>
6109020301	<u>Ilyocryptus sordidus</u> (5)
610903	Bosminidae
61090301	<u>Bosmina</u> (6)
610904	Holopedidae
61090401	<u>Holopedium</u>
610905	Polyphemidae
6109050101	<u>Evadne nordmanni</u>
6109050102	<u>Evadne tergestina</u>
6109050103	<u>Evadne spinifera</u>
6109050201	<u>Podon intermedius</u>
6109050202	<u>Podon leuckarti</u>
6109050203	<u>Podon polyphacmoides</u>
610906	Leptodoridae (7)
6109060101	<u>Leptodora kindtii</u> (8)

Annotations

- (1) I cannot comment on the taxonomy of this species as I have only seen citations from the European literature for it. I have not read any reports of its occurrence in the northeast Pacific between Oregon and the Bering Sea.
- (2) Several other genera of daphnids occur in fresh and brackish waters, one of which (Ceriodaphnia) I have collected on several occasions from Alaskan fjords. The species was C. reticulata.
- (3) Daphnia longispina is not found in North America. It occurs in Eurasia only (Brooks 1957).
- (4) Brooks (1957, 1959) lists 14 other species of Daphnia besides D. pulex found in North America, at least two of which I have found in either the Columbia River estuary or off Alaska.
- (5) This species is in the wrong family; the correct family is Macrothricidae, which was not in my copy of the NODC Taxonomic Codes.
- (6) Bosmina has been divided into two genera (Deevey and Deevey 1971), Eubosmina and Bosmina. The brackish-water subspecies, which I have collected off Alaska on several occasions, was assigned to the genus Eubosmina.
- (7) Leptodoridae is not in the suborder Eucladocera, but rather is the solitary family in the suborder Haplopoda.
- (8) Besides Macrothricidae, another family, Chydoridae, was not included; and at least two of its genera have been found in estuarine waters. I have observed one in the Alaskan fjords I've studied.

Order Cladocera

(After Brooks 1957, 1959; Deevey and Deevey 1971; Smirnov 1974. Species tallies are based upon North American information; collection notes based upon personal experience.)

Suborder Haplopoda (1 family, 1 genus)

F. Leptodoridae

Leptodora - 1 sp.

Suborder Eucladocera (3 superfamilies, 7 families, 47 genera)

Superfamily Polyphemoidea

F. Polyphemidae

Polyphemus - 1 sp.

Evadne - 3 spp. (2 collected from Alaskan waters)

Podon - 3 spp. (all 3 collected from Alaskan waters)

Superfamily Sidoidea

F. Holopedidae

Holopedium - 2 spp.

F. Sididae

Sida - 1 sp.

Latona - 2 spp.

Diaphanosoma - 2 spp.

Pseudosida - 1 sp.

Latonopsis - 2 spp.

Superfamily Chydoroidea

F. Bosminidae

Bosmina - 1 sp. (B. longirostris common in Oregon estuaries)

Eubosmina - 4 spp. (subspecies E. coregoni maritima collected from Alaskan waters)

Bosminopsis - 1 sp.

F. Daphnidae

Daphnia - 15 spp. in 2 subgenera

Order Cladocera
(continued)

Subgenus Ctenodaphnia	<u>D. magna</u>
	<u>D. similis</u>
Subgenus Daphnia	<u>D. ambigua</u>
	<u>D. catawba</u>
	<u>D. dubia</u>
	<u>D. galeata mendotae</u> (collected in the Columbia River Estuary)
	<u>D. laevis</u>
	<u>D. longiremis</u>
	<u>D. middendorffiana</u>
	<u>D. parvula</u>
	<u>D. pulex</u>
	<u>D. retrocurva</u>
	<u>D. rosea</u>
	<u>D. schodleri</u> (collected from Alaskan waters)
	<u>D. thorata</u> (may be another subspecies of <u>D. galeata</u> ; K. Patalas of Environment Canada (1974, J. Fish Res. Bd. Canada and personal communication) and I have found apparent inter- grades between <u>D. galeata</u> <u>mendotae</u> and <u>D. thorata</u> in the ELA, Ontario and in Lower Michigan, respectively.
<u>Ceriodaphnia</u> -	9 spp. (<u>C. reticulata</u> collected from Alaskan waters)
<u>Simocephalus</u> -	3 spp.
<u>Scapholeberis</u> -	2 spp.
<u>Moinodaphnia</u> -	1 sp.
<u>Moina</u> -	7 spp.

Order Cladocera

(continued)

F. Chydoridae (4 subfamilies, 3 found in North America)

Subfamily Eurycercinae

Eurycercus - 2 spp.

Subfamily Chydorinae

Chydorus - 11 spp. in four subgenera (1 found in
Columbia River Estuary)

Dadaya - 1 sp.

Alonella - 8 spp. in 3 subgenera

Dunhevedia - 2 spp.

Pleuroxus - 9 spp.

Anchistropus - 1 sp.

Subfamily Aloninae

Alona - 11 spp. (1 found in Alaskan waters;
genus recorded from several Oregon
River estuaries including the
Columbia)

Alonopsis - 2 spp.

Acroperus - 1 sp.

Euryalona - 1 sp.

Rhynchotalona - 1 sp.

Monospilus - 1 sp.

Camptocercus - 3 spp.

Kurzia - 1 sp.

Graptoleberis - 1 sp.

Leydigia - 2 spp.

Oxyurella - 2 spp.

I. Macrothricidae

Ophryoxus - 1 sp.

Parophryoxus - 1 sp.

Streblocerus - 2 spp.

Drepanothrix - 1 sp.

Order Cladocera
(continued)

<u>Acantholebris</u> -	1 sp.
<u>Grimaldina</u> -	1 sp.
<u>Wlassicia</u> -	1 sp.
<u>Macrothrix</u> -	5 spp.
<u>Lathonura</u> -	1 sp.
<u>Bunops</u> -	1 sp.
<u>Ilyocryptus</u> -	3 spp.

Based upon what I know of the life histories, habitat preferences and salinity tolerances of these organisms, I would recommend the following rearrangements, corrections and additions to the present code.

6108	Branchiopoda Diplostraca Cladocera Haplopoda
610801	Leptodoridae
6108010101	<u>Leptodora kindtii</u>
6109	Branchiopoda Diplostraca Cladocera Eucladocera
610901	Sididae - no changes
610902	Daphnidae
61090201	<u>Daphnia</u>
6109020101-	
6109020115	List all 15 species and drop <u>D. longispina</u> (I suggest reassigning all such records to <u>Daphnia</u> sp.)
6109020201	<u>Simocephalus exspinosus</u>
6109020401	<u>Ceriodaphnia reticulata</u>
61090205	<u>Moina</u>
610903	Bosminidae
6109030101	<u>Bosmina longirostris</u>
6109030201	<u>Eubosmina coregoni</u>
610903020102	<u>Eubosmina coregoni maritima</u>
610904	Holopedidae - no changes
610905	Polyphemidae - no changes
610907	Chydoridae
61090701	<u>Chydorus</u>
61090702	<u>Alona</u>
6109070301	<u>Monospilus dispar</u>
61090704	<u>Leydigia</u>
610908	Macrothricidae
6109080101	<u>Ilyocryptus sordidus</u>

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
8200049	F124	TR8009	0081	3109	31CU	1978/03/29	TRKZ11	317025
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8200049	F124	TR8011	0081	3109	31CU	1978/04/21	TRKZ13	317027
8200049	F124	TR8012	0081	3109	31CU	1978/05/03	TRKZ14	317028
8200049	F124	TR8013	0081	3109	31CU	1978/05/31	TRKZ15	317029
8200049	F124	TR8014	0081	3109	31CU	1978/06/12	TRKZ16	317030
8200049	F124	TR8015	0081	3109	31CU	1978/06/28	TRKZ17	317031
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8200049	F124	TR8020	0081	3109	31CU	1979/03/06	TRKZ22	317036
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(16 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
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8200049	F124	TR8011	31CU	34	673	78/04/21	78/05/01
8200049	F124	TR8012	31CU	40	766	78/05/03	78/05/28
8200049	F124	TR8013	31CU	40	695	78/05/31	78/06/06
8200049	F124	TR8014	31CU	40	651	78/06/12	78/06/24
8200049	F124	TR8015	31CU	40	692	78/06/28	78/07/18
8200049	F124	TR8016	31CU	40	653	78/07/21	78/07/29
8200049	F124	TR8017	31CU	40	675	78/08/01	78/08/09
8200049	F124	TR8018	31CU	40	685	75/05/20	78/08/21
8200049	F124	TR8019	31CU	39	802	78/11/03	78/11/13
8200049	F124	TR8020	31CU	39	745	79/03/06	79/03/16
8200049	F124	TR8005	31DS	89	1634	78/03/29	78/04/20
8200049	F124	TR8006	31FN	92	1781	78/06/20	78/07/05
8200049	F124	TR8008	31FN	91	1872	79/02/04	79/03/08
8200049	F124	TR8007	32WC	92	1851	78/10/27	78/11/28

(16 rows affected)