

No	Metadata element name	Your input	Help reference no.
1	Submission Date		1
2	Accession no. of related data sets		2
3	Investigator-1 name	Robert Foy	3.1
4	Investigator-1 institution	Alaska Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration	3.2
5	Investigator-1 address	301 Research Ct. Kodiak, Alaska 99615	3.3
6	Investigator-1 phone	907-481-1711	3.4
7	Investigator-1 email		3.5
8	Investigator-1 researcher ID		3.6
9	Investigator-1 ID type (ORCID, Researcher ID, etc.)		3.7
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11	Investigator-2 institution	Alaska Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration	3.2
12	Investigator-2 address	301 Research Ct. Kodiak, Alaska 99615	3.3
13	Investigator-2 phone	907-481-1715	3.4
14	Investigator-2 email		3.5
15	Investigator-2 researcher ID		3.6
16	Investigator-2 ID type (ORCID, Researcher ID, etc.)		3.7
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18	Investigator-3 institution	Alaska Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration	3.2
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21	Investigator-3 email		3.5
22	Investigator-3 researcher ID		3.6
23	Investigator-3 ID type (ORCID, Researcher ID, etc.)		3.7
24	Data submitter name	Robert Foy	4.1
25	Data submitter institution	Alaska Fisheries Science Center, National Marine Fisheries Service, National Oceanic and Atmospheric Administration	4.2
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29	Data submitter researcher ID		4.6
30	Data submitter ID type (ORCID, Researcher ID, etc.)		4.7
31	Title	Effects of ocean acidification on the embryos and larvae of red king crab, <i>Paralithodes camtschaticus</i>	5
32	Abstract	The effects of the decline in ocean pH, known as ocean acidification, on marine species are not well understood. To test the effects on embryos and larvae of red king crab, <i>Paralithodes camtschaticus</i> , ovigerous crab and their larvae were held in CO <sub>2</sub> -acidified (pH 7.7) and control (ambient; pH 8.0) seawater during development. Morphometrics, hatch duration, fecundity, survival, mineral content, and condition were measured. Acidified embryos had 4% larger eyes and 5% smaller yolks, while mean hatch duration was 33% longer and female fecundity was unaffected. Acidified embryos also resulted in 4% longer larvae while acidified larvae had lower survival. Calcium content of both larvae and female carapaces after molting increased by 5% and 19%, respectively. Although ocean acidification may increase larval size and calcium content, the implications of this are unclear and decreased survival is likely to harm red king crab populations.	6
33	Purpose		7
34	Start date	2/10/2010	8.1
35	End date	5/26/2010	8.2
36	Westbd longitude	-152.396521	9.1
37	Eastbd longitude	-152.396521	9.2
38	Northbd latitude	57.795981	9.3
39	Southbd latitude	57.795981	9.4
40	Spatial reference system		10
41	Geographic names	Bering Sea, Kodiak Laboratory	11
42	Location of organism collection		12
43	Funding agency name	NOAA OAP	13.1
44	Funding project title	Effects of ocean acidification on federally managed crab species in Alaska	13.2

45	Funding project ID (Grant no.)	OAPFY13.03.AFSC.001	13.3
46	Research projects		14
47	Platform-1 name		15.1
48	Platform-1 ID		15.2
49	Platform-1 type		15.3
50	Platform-1 owner		15.4
51	Platform-1 country		15.5
62	EXPCODE		16
63	Cruise ID		17
64	Section		18
65	Author list for citation	Long, C.W., K.M. Swiney, and R.J. Foy. Effects of Ocean acidification on embryos and larvae of red king crab, <i>Paralithodes camtschaticus</i> . NODC.	19
66	References	Long, C.W., K.M. Swiney, and R.J. Foy. 2013. Effects of Ocean acidification on embryos and larvae of red king crab, <i>Paralithodes camtschaticus</i> . Marine Pollution Bulletin. 69: 38-47.	20
67	Supplemental information		21
68	DIC: Variable abbreviation in data files	DIC	22.1
69	DIC: Observation type	Laboratory Experiment	22.2
70	DIC: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		22.3
71	DIC: Manipulation method (SPECIAL USE ONLY) (SPECIAL USE ONLY)		22.4
72	DIC: Variable unit	umol/kg	22.5
73	DIC: Measured or calculated		22.6
74	DIC: Calculation method and parameters		22.7
75	DIC: Sampling instrument		22.8
76	DIC: Analyzing instrument		22.9
77	DIC: Detailed sampling and analyzing information		22.10
78	DIC: Field replicate information		22.11
79	DIC: Standardization technique description		22.12.1
80	DIC: Frequency of standardization		22.12.2
81	DIC: CRM manufacturer		22.12.3.1
82	DIC: Batch number		22.12.3.2
83	DIC: Poison used to kill the sample		22.13.1
84	DIC: Poison volume		22.13.2
85	DIC Poisoning correction description		22.13.3
86	DIC: Uncertainty	10	22.14
87	DIC: Data quality flag description		22.15
88	DIC: Method reference (citation)		22.16
89	DIC: Researcher Name		22.17.1
90	DIC: Researcher Institution		22.17.2
91	TA: Variable abbreviation in data files	TA	23.1
92	TA: Observation type	Laboratory Experiment	23.2
93	TA: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)	Manipulation condition	23.3
94	TA: Manipulation method (SPECIAL USE ONLY)		23.4
95	TA: Variable unit	umol/kg	23.5
96	TA: Measured or calculated		23.6
97	TA: Calculation method and parameters		23.7
98	TA: Sampling instrument		23.8
99	TA: Analyzing instrument		23.9
100	TA: Type of titration		23.10

101	TA: Cell type (open or closed)		23.11
102	TA: Curve fitting method		23.12
103	TA: Detailed sampling and analyzing information		23.13
104	TA: Field replicate information		23.14
105	TA: Standardization technique description		23.15.1
106	TA: Frequency of standardization		23.15.2
107	TA: CRM manufacturer		23.15.3.1
108	TA: Batch Number		23.15.3.2
109	TA: Poison used to kill the sample		23.16.1
110	TA: Poison volume		23.16.2
111	TA: Poisoning correction description		23.16.3
112	TA: Magnitude of blank correction		23.17
113	TA: Uncertainty	10	23.18
114	TA: Data quality flag description		23.19
115	TA: Method reference (citation)		23.20
116	TA: Researcher Name		23.21.1
117	TA: Researcher Institution		23.21.2
118	pH: Variable abbreviation in data files	pH	24.1
119	pH: Observation type	Laboratory Experiment	24.2
120	pH: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)	Manipulation condition	24.3
121	pH: Manipulation method (SPECIAL USE ONLY)		24.4
122	pH: Measured or calculated		24.5
123	pH: Calculation method and parameters		24.6
124	pH: Sampling instrument		24.7
125	pH: Analyzing instrument		24.8
126	pH: pH scale	Total	24.9
127	pH: Temperature of measurement		24.10
128	pH: Detailed sampling and analyzing information		24.11
129	pH: Field replicate information		24.12
130	pH: Standardization technique description		24.13.1
131	pH: Frequency of standardization		24.13.2
132	pH: pH values of the standards		24.13.3
133	pH: Temperature of standardization		24.13.4
134	pH: Temperature correction method		24.14
135	pH: at what temperature was pH reported	variable	24.15
136	pH: Uncertainty	0.03	24.16
137	pH: Data quality flag description		24.17
138	pH: Method reference (citation)		24.18
139	pH: Researcher Name		24.19.1
140	pH: Researcher Institution		24.19.2
141	pCO2A: Variable abbreviation in data files		25.1
142	pCO2A: Observation type		25.2
143	pCO2A: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		25.3
144	pCO2A: Manipulation method (SPECIAL USE ONLY)		25.4
145	pCO2A: Variable unit		25.5
146	pCO2A: Measured or calculated		25.6
147	pCO2A: Calculation method and parameters		25.7
148	pCO2A: Sampling instrument		25.8
149	pCO2A: Location of seawater intake		25.9
150	pCO2A: Depth of seawater intake		25.10
151	pCO2A: Analyzing instrument		25.11

152	pCO2A: Detailed sampling and analyzing information	25.12
153	pCO2A: Equilibrator type	25.13.1
154	pCO2A: Equilibrator volume (L)	25.13.2
155	pCO2A: Vented or not	25.13.3
156	pCO2A: Water flow rate (L/min)	25.13.4
157	pCO2A: Headspace gas flow rate (L/min)	25.13.5
158	pCO2A: How was temperature inside the equilibrator measured .	25.13.6
159	pCO2A: How was pressure inside the equilibrator measured.	25.13.7
160	pCO2A: Drying method for CO2 gas	25.14
161	pCO2A: Manufacturer of the gas detector	25.15.1
162	pCO2A: Model of the gas detector	25.15.2
163	pCO2A: Resolution of the gas detector	25.15.3
164	pCO2A: Uncertainty of the gas detector	25.15.4
165	pCO2A: Standardization technique description	25.16.1
166	pCO2A: Frequency of standardization	25.16.2
167	pCO2A: Manufacturer of standard gas	25.16.3.1
168	pCO2A: Concentrations of standard gas	25.16.3.2
169	pCO2A: Uncertainties of standard gas	25.16.3.3
170	pCO2A: Water vapor correction method	25.17
171	pCO2A: Temperature correction method	25.18
172	pCO2A: at what temperature was pCO2 reported	25.19
173	pCO2A: Uncertainty	25.20
174	pCO2A: Data quality flag description	25.21
175	pCO2A: Method reference (citation)	25.22
176	pCO2A: Researcher Name	25.23.1
177	pCO2A: Researcher Institution	25.23.2
178	pCO2D: Variable abbreviation in data files	26.1
179	pCO2D: Observation type	26.2
180	pCO2D: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)	26.3
181	pCO2D: Manipulation method (SPECIAL USE ONLY)	26.4
182	pCO2D: Variable unit	26.5
183	pCO2D: Measured or calculated	26.6
184	pCO2D: Calculation method and parameters	26.7
185	pCO2D: Sampling instrument	26.8
186	pCO2D: Analyzing instrument	26.9
187	pCO2D: Storage method	26.10
188	pCO2D: Seawater volume (mL)	26.11
189	pCO2D: Headspace volume (mL)	26.12
190	pCO2D: Temperature of measurement	26.13
191	pCO2D: Detailed sampling and analyzing information	26.14
192	pCO2D: Field replicate information	26.15
193	pCO2D: Manufacturer of the gas detector	26.16.1
194	pCO2D: Model of the gas detector	26.16.2
195	pCO2D: Resolution of the gas detector	26.16.3
196	pCO2D: Uncertainty of the gas detector	26.16.4
197	pCO2D: Standardization technique description	26.17.1
198	pCO2D: Frequency of standardization	26.17.2
199	pCO2D: Temperature of standardization	26.17.3
200	pCO2D: Manufacturer of standard gas	26.17.4.1

201	pCO2D: Concentrations of standard gas		26.17.4.2
202	pCO2D: Uncertainties of standard gas		26.17.4.3
203	pCO2D: Water vapor correction method		26.18
204	pCO2D: Temperature correction method		26.19
205	pCO2D: at what temperature was pCO2 reported		26.20
206	pCO2D: Uncertainty		26.21
207	pCO2D: Data quality flag description		26.22
208	pCO2D: Method reference (citation)		26.23
209	pCO2D: Researcher Name		26.24.1
210	pCO2D: Researcher Institution		26.24.2
211	Var1: Variable abbreviation in data files	Salinity	27.1
212	Var1: Full variable name	Salinity	27.2
213	Var1: Observation type		27.4
214	Var1: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
215	Var1: Variable unit	PSU	27.7
216	Var1: Measured or calculated		27.8
217	Var1: Calculation method and parameters		27.9
218	Var1: Sampling instrument		27.10
219	Var1: Analyzing instrument		27.11
220	Var1: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
221	Var1: Detailed sampling and analyzing information		27.13
222	Var1: Field replicate information		27.14
223	Var1: Uncertainty	0.001	27.15
224	Var1: Data quality flag description		27.16
225	Var1: Method reference (citation)		27.17
226	Var1: Biological subject (SPECIAL USE ONLY)		27.18
227	Var1: Species Identification code (SPECIAL USE ONLY)		27.19
228	Var1: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
229	Var1: Researcher Name		27.21.1
230	Var1: Researcher Institution		27.21.2
231	Var2: Variable abbreviation in data files	pH	27.1
232	Var2: Full variable name	pH	27.2
233	Var2: Observation type		27.4
234	Var2: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
235	Var2: Variable unit	pH units	27.7
236	Var2: Measured or calculated		27.8
237	Var2: Calculation method and parameters		27.9
238	Var2: Sampling instrument		27.10
239	Var2: Analyzing instrument	Durafet III	27.11
240	Var2: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
241	Var2: Detailed sampling and analyzing information		27.13
242	Var2: Field replicate information		27.14
243	Var2: Uncertainty	0.03	27.15
244	Var2: Data quality flag description		27.16
245	Var2: Method reference (citation)		27.17
246	Var2: Biological subject (SPECIAL USE ONLY)		27.18
247	Var2: Species Identification code (SPECIAL USE ONLY)		27.19

248	Var2: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
249	Var2: Researcher Name		27.21.1
250	Var2: Researcher Institution		27.21.2
251	Var3: Variable abbreviation in data files	Temperature	27.1
252	Var3: Full variable name	Temperature	27.2
253	Var3: Observation type		27.4
254	Var3: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
255	Var3: Variable unit	C	27.7
256	Var3: Measured or calculated		27.8
257	Var3: Calculation method and parameters		27.9
258	Var3: Sampling instrument		27.10
259	Var3: Analyzing instrument		27.11
260	Var3: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
261	Var3: Detailed sampling and analyzing information		27.13
262	Var3: Field replicate information		27.14
263	Var3: Uncertainty	0.1	27.15
264	Var3: Data quality flag description		27.16
265	Var3: Method reference (citation)		27.17
266	Var3: Biological subject (SPECIAL USE ONLY)		27.18
267	Var3: Species Identification code (SPECIAL USE ONLY)		27.19
268	Var3: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
269	Var3: Researcher Name		27.21.1
270	Var3: Researcher Institution		27.21.2
271	Var4: Variable abbreviation in data files	Egg Area	27.1
272	Var4: Full variable name	Egg Area	27.2
273	Var4: Observation type		27.4
274	Var4: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
275	Var4: Variable unit	mm^2	27.7
276	Var4: Measured or calculated		27.8
277	Var4: Calculation method and parameters		27.9
278	Var4: Sampling instrument		27.10
279	Var4: Analyzing instrument		27.11
280	Var4: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
281	Var4: Detailed sampling and analyzing information		27.13
282	Var4: Field replicate information		27.14
283	Var4: Uncertainty	0.001	27.15
284	Var4: Data quality flag description		27.16
285	Var4: Method reference (citation)		27.17
286	Var4: Biological subject (SPECIAL USE ONLY)		27.18
287	Var4: Species Identification code (SPECIAL USE ONLY)		27.19
288	Var4: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
289	Var4: Researcher Name		27.21.1
290	Var4: Researcher Institution		27.21.2
291	Var5: Variable abbreviation in data files	Egg Diameter	27.1
292	Var5: Full variable name	Egg Diameter	27.2
293	Var5: Observation type		27.4

294	Var5: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
295	Var5: Variable unit	mm	27.7
296	Var5: Measured or calculated		27.8
297	Var5: Calculation method and parameters		27.9
298	Var5: Sampling instrument		27.10
299	Var5: Analyzing instrument		27.11
300	Var5: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
301	Var5: Detailed sampling and analyzing information		27.13
302	Var5: Field replicate information		27.14
303	Var5: Uncertainty	0.01	27.15
304	Var5: Data quality flag description		27.16
305	Var5: Method reference (citation)		27.17
306	Var5: Biological subject (SPECIAL USE ONLY)		27.18
307	Var5: Species Identification code (SPECIAL USE ONLY)		27.19
308	Var5: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
309	Var5: Researcher Name		27.21.1
310	Var5: Researcher Institution		27.21.2
311	Var6: Variable abbreviation in data files	Egg Perimeter	27.1
312	Var6: Full variable name	Egg Perimeter	27.2
313	Var6: Observation type		27.4
314	Var6: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
315	Var6: Variable unit	mm	27.7
316	Var6: Measured or calculated		27.8
317	Var6: Calculation method and parameters		27.9
318	Var6: Sampling instrument		27.10
319	Var6: Analyzing instrument		27.11
320	Var6: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
321	Var6: Detailed sampling and analyzing information		27.13
322	Var6: Field replicate information		27.14
323	Var6: Uncertainty	0.01	27.15
324	Var6: Data quality flag description		27.16
325	Var6: Method reference (citation)		27.17
326	Var6: Biological subject (SPECIAL USE ONLY)		27.18
327	Var6: Species Identification code (SPECIAL USE ONLY)		27.19
328	Var6: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
329	Var6: Researcher Name		27.21.1
330	Var6: Researcher Institution		27.21.2
331	Var7: Variable abbreviation in data files	Yolk Area	27.1
332	Var7: Full variable name	Yolk Area	27.2
333	Var7: Observation type		27.4
334	Var7: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
335	Var7: Variable unit	mm^2	27.7
336	Var7: Measured or calculated		27.8
337	Var7: Calculation method and parameters		27.9
338	Var7: Sampling instrument		27.10
339	Var7: Analyzing instrument		27.11

340	Var7: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
341	Var7: Detailed sampling and analyzing information		27.13
342	Var7: Field replicate information		27.14
343	Var7: Uncertainty	0.001	27.15
344	Var7: Data quality flag description		27.16
345	Var7: Method reference (citation)		27.17
346	Var7: Biological subject (SPECIAL USE ONLY)		27.18
347	Var7: Species Identification code (SPECIAL USE ONLY)		27.19
348	Var7: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
349	Var7: Researcher Name		27.21.1
350	Var7: Researcher Institution		27.21.2
351	Var8: Variable abbreviation in data files	Yolk diameter	27.1
352	Var8: Full variable name	Yolk diameter	27.2
353	Var8: Observation type		27.4
354	Var8: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
355	Var8: Variable unit	mm	27.7
356	Var8: Measured or calculated		27.8
357	Var8: Calculation method and parameters		27.9
358	Var8: Sampling instrument		27.10
359	Var8: Analyzing instrument		27.11
360	Var8: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
361	Var8: Detailed sampling and analyzing information		27.13
362	Var8: Field replicate information		27.14
363	Var8: Uncertainty	0.01	27.15
364	Var8: Data quality flag description		27.16
365	Var8: Method reference (citation)		27.17
366	Var8: Biological subject (SPECIAL USE ONLY)		27.18
367	Var8: Species Identification code (SPECIAL USE ONLY)		27.19
368	Var8: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
369	Var8: Researcher Name		27.21.1
370	Var8: Researcher Institution		27.21.2
371	Var9: Variable abbreviation in data files	Yolk perimeter	27.1
372	Var9: Full variable name	Yolk perimeter	27.2
373	Var9: Observation type		27.4
374	Var9: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
375	Var9: Variable unit	mm	27.7
376	Var9: Measured or calculated		27.8
377	Var9: Calculation method and parameters		27.9
378	Var9: Sampling instrument		27.10
379	Var9: Analyzing instrument		27.11
380	Var9: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
381	Var9: Detailed sampling and analyzing information		27.13
382	Var9: Field replicate information		27.14
383	Var9: Uncertainty	0.01	27.15
384	Var9: Data quality flag description		27.16
385	Var9: Method reference (citation)		27.17



386	Var9: Biological subject (SPECIAL USE ONLY)		27.18
387	Var9: Species Identification code (SPECIAL USE ONLY)		27.19
388	Var9: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
389	Var9: Researcher Name		27.21.1
390	Var9: Researcher Institution		27.21.2
391	Var10: Variable abbreviation in data files	%Yolk	27.1
392	Var10: Full variable name	%Yolk	27.2
393	Var10: Observation type		27.4
394	Var10: In-situ observation / manipulation condition / response variable (SPECIAL USE ONLY)		27.5
395	Var10: Variable unit	%	27.7
396	Var10: Measured or calculated		27.8
397	Var10: Calculation method and parameters		27.9
398	Var10: Sampling instrument		27.10
399	Var10: Analyzing instrument		27.11
400	Var10: Duration (for settlement/colonization methods) (SPECIAL USE ONLY)		27.12
401	Var10: Detailed sampling and analyzing information		27.13
402	Var10: Field replicate information		27.14
403	Var10: Uncertainty	0.1	27.15
404	Var10: Data quality flag description		27.16
405	Var10: Method reference (citation)		27.17
406	Var10: Biological subject (SPECIAL USE ONLY)		27.18
407	Var10: Species Identification code (SPECIAL USE ONLY)		27.19
408	Var10: Life stage of the Biological subject (SPECIAL USE ONLY)		27.20
409	Var10: Researcher Name		27.21.1
410	Var10: Researcher Institution		27.21.2
411	Var11: Variable abbreviation in data files	Eye area	28.1
412	Var11: Full variable name	Eye area	28.2
413	Var11: Variable unit	mm^2	27.7
414	Var12: Variable abbreviation in data files	Eye diameter	28.1
415	Var12: Full variable name	Eye diameter	28.2
416	Var12: Variable unit	mm	27.7
417	Var13: Variable abbreviation in data files	Eye perimeter	28.1
418	Var13: Full variable name	Eye perimeter	28.2
419	Var13: Variable unit	mm	27.7
420	Var14: Variable abbreviation in data files	Dry Wt	28.1
421	Var14: Full variable name	Dry Wt	28.2
422	Var14: Variable unit	g	27.7
423	Var15: Variable abbreviation in data files	Calcium	28.1
424	Var15: Full variable name	Calcium	28.2
425	Var15: Variable unit	mg	27.7
426	Var16: Variable abbreviation in data files	Magnesium	28.1
427	Var16: Full variable name	Mg	28.2
428	Var16: Variable unit	mg	27.7
423	Var15: Variable abbreviation in data files	Na	28.1
424	Var15: Full variable name	Sodium	28.2
425	Var15: Variable unit	mg	27.7
426	Var16: Variable abbreviation in data files	K	28.1
427	Var16: Full variable name	Potassium	28.2
428	Var16: Variable unit	mg	27.7

429	Var17: Variable abbreviation in data files	C	28.1
430	Var17: Full variable name	Carbon	28.2
431	Var17: Variable unit	ug	27.7
432	Var18: Variable abbreviation in data files	H	28.1
433	Var18: Full variable name	Hydrogen	28.2
434	Var18: Variable unit	ug	27.7
435	Var19: Variable abbreviation in data files	N	28.1
436	Var19: Full variable name	Nitrogen	28.2
437	Var19: Variable unit	ug	27.7
438	Var20: Variable abbreviation in data files	Carapace Height	28.1
439	Var20: Full variable name	Carapace Height	28.2
440	Var20: Variable unit	mm	27.7
441	Var21: Variable abbreviation in data files	Carapace Length	28.1
442	Var21: Full variable name	Carapace Length	28.2
443	Var21: Variable unit	mm	27.7
444	Var22: Variable abbreviation in data files	Rosterm Length	28.1
445	Var22: Full variable name	Rosterm Length	28.2
446	Var22: Variable unit	mm	27.7
447	Var23: Variable abbreviation in data files	Total Length	28.1
448	Var23: Full variable name	Total Length	28.2
449	Var23: Variable unit	mm	27.7
450	Var24: Variable abbreviation in data files	Telson spine length	28.1
451	Var24: Full variable name	Telson spine length	28.2
452	Var24: Variable unit	mm	27.7