Instructions: Please try not to change the order of Rows No
the additional variable sections, then the non-measured vari
are more than 3 platforms). Please do not use special chara

No	Metadata element name
1	**Submission Date**
2	**Accession no. of related data sets**
3	**Investigator-1 name**
4	**Investigator-1 institution**
5	**Investigator-1 address**
6	**Investigator-1 phone**
7	**Investigator-1 email**
8	**Investigator-1 researcher ID**
9	**Investigator-1 ID type (ORCID, Researcher ID, etc.)**
10	**Investigator-2 name**
11	**Investigator-2 institution**
12	**Investigator-2 address**
13	**Investigator-2 phone**
14	**Investigator-2 email**
15	**Investigator-2 researcher ID**
16	**Investigator-2 ID type (ORCID, Researcher ID, etc.)**
17	**Investigator-3 name**
18	**Investigator-3 institution**
19	**Investigator-3 address**
20	**Investigator-3 phone**
21	**Investigator-3 email**
22	**Investigator-3 researcher ID**
23	**Investigator-3 ID type (ORCID, Researcher ID, etc.)**
24	**Data submitter name**
25	**Data submitter institution**
26	**Data submitter address**
27	**Data submitter phone**
28	**Data submitter email**
29	**Data submitter researcher ID**
30	**Data submitter ID type (ORCID, Researcher ID, etc.)**
31	**Title**

32 **Abstract**

33 **Purpose**
34 **Start date**
35 **End date**
36 **Westbd longitude**
37 **Eastbd longitude**
38 **Northbd latitude**
39 **Southbd latitude**
40 **Spatial reference system**
41 **Geographic names**
42 **Location of organism collection**
43 **Funding agency name**
44 **Funding project title**
45 **Funding project ID (Grant no.)**
46 **Research projects**
47 **Platform-1 name**
48 **Platform-1 ID**
49 **Platform-1 type**
50 **Platform-1 owner**
51 **Platform-1 country**
52 **Platform-2 name**
53 **Platform-2 ID**
54 **Platform-2 type**
55 **Platform-2 owner**
56 **Platform-2 country**
57 **Platform-3 name**
58 **Platform-3 ID**
59 **Platform-3 type**
60 **Platform-3 owner**
61 **Platform-3 country**
62 **EXPOCODE**
63 **Cruise ID**
64 **Section**
65 **Author list for citation**
66 **References**
67 **Supplemental information**
68 **DIC: Variable abbreviation in data files**

69 DIC: Observation type
70 DIC: In-situ observation / manipulation condition / response variable
71 DIC: Manipulation method
72 DIC: Variable unit
73 DIC: Measured or calculated
74 DIC: Calculation method and parameters
75 DIC: Sampling instrument
76 DIC: Analyzing instrument
77 DIC: Detailed sampling and analyzing information
78 DIC: Field replicate information
79 DIC: Standardization technique description
80 DIC: Frequency of standardization
81 DIC: CRM manufacturer
82 DIC: Batch number
83 DIC: Poison used to kill the sample
84 DIC: Poison volume
85 DIC Poisoning correction description
86 DIC: Uncertainty
87 DIC: Data quality flag description
88 DIC: Method reference (citation)
89 DIC: Researcher Name
90 DIC: Researcher Institution

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91 TA: Variable abbreviation in data files
92 TA: Observation type
93 TA: In-situ observation / manipulation condition / response variable
94 TA: Manipulation method
95 TA: Variable unit
96 TA: Measured or calculated
97 TA: Calculation method and parameters
98 TA: Sampling instrument
99 TA: Analyzing instrument
100 TA: Type of titration
101 TA: Cell type (open or closed)
102 TA: Curve fitting method
103 TA: Detailed sampling and analyzing information
104 TA: Field replicate information
105 TA: Standardization technique description
106 TA: Frequency of standardization
107 TA: CRM manufacturer
108 TA: Batch Number
109 TA: Poison used to kill the sample
110 TA: Poison volume
111 TA: Poisoning correction description
112 TA: Magnitude of blank correction
113 TA: Uncertainty

114 TA: Data quality flag description
115 TA: Method reference (citation)
116 TA: Researcher Name
117 TA: Researcher Institution
118 pH: Variable abbreviation in data files
119 pH: Observation type
120 pH: In-situ observation / manipulation condition / response variable
121 pH: Manipulation method
122 pH: Measured or calculated
123 pH: Calculation method and parameters
124 pH: Sampling instrument
125 pH: Analyzing instrument
126 pH: pH scale
127 pH: Temperature of measurement
128 pH: Detailed sampling and analyzing information
129 pH: Field replicate information
130 pH: Standardization technique description
131 pH: Frequency of standardization
132 pH: pH values of the standards
133 pH: Temperature of standardization
134 pH: Temperature correction method
135 pH: at what temperature was pH reported
136 pH: Uncertainty
137 pH: Data quality flag description
138 pH: Method reference (citation)
139 pH: Researcher Name
140 pH: Researcher Institution
141 pCO2A: Variable abbreviation in data files
142 pCO2A: Observation type
143 pCO2A: In-situ observation / manipulation condition / response variable
144 pCO2A: Manipulation method
145 pCO2A: Variable unit
146 pCO2A: Measured or calculated
147 pCO2A: Calculation method and parameters
148 pCO2A: Sampling instrument
149 pCO2A: Location of seawater intake
150 pCO2A: Depth of seawater intake
151 pCO2A: Analyzing instrument
152 pCO2A: Detailed sampling and analyzing information
153 pCO2A: Equilbrator type
154 pCO2A: Equilibrator volume (L)
155 pCO2A: Vented or not
156 pCO2A: Water flow rate (L/min)
157 pCO2A: Headspace gas flow rate (L/min)
158 pCO2A: How was temperature inside the equilibrator measured .
159 pCO2A: How was pressure inside the equilibrator measured.
160 pCO2A: Drying method for CO2 gas
161 pCO2A: Manufacturer of the gas detector

162 pCO2A: Model of the gas detector
163 pCO2A: Resolution of the gas detector
164 pCO2A: Uncertainty of the gas detector
165 pCO2A: Standardization technique description
166 pCO2A: Frequency of standardization
167 pCO2A: Manufacturer of standard gas
168 pCO2A: Concentrations of standard gas
169 pCO2A: Uncertainties of standard gas
170 pCO2A: Water vapor correction method
171 pCO2A: Temperature correction method
172 pCO2A: at what temperature was pCO2 reported
173 pCO2A: Uncertainty
174 pCO2A: Data quality flag description
175 pCO2A: Method reference (citation)
176 pCO2A: Researcher Name
177 pCO2A: Researcher Institution
178 pCO2D: Variable abbreviation in data files
179 pCO2D: Observation type
180 pCO2D: In-situ observation / manipulation condition / response variable
181 pCO2D: Manipulation method
182 pCO2D: Variable unit
183 pCO2D: Measured or calculated
184 pCO2D: Calculation method and parameters
185 pCO2D: Sampling instrument
186 pCO2D: Analyzing instrument
187 pCO2D: Storage method
188 pCO2D: Seawater volume (mL)
189 pCO2D: Headspace volume (mL)
190 pCO2D: Temperature of measurement
191 pCO2D: Detailed sampling and analyzing information
192 pCO2D: Field replicate information
193 pCO2D: Manufacturer of the gas detector
194 pCO2D: Model of the gas detector
195 pCO2D: Resolution of the gas detector
196 pCO2D: Uncertainty of the gas detector
197 pCO2D: Standardization technique description
198 pCO2D: Frequency of standardization
199 pCO2D: Temperature of standardization
200 pCO2D: Manufacturer of standard gas
201 pCO2D: Concentrations of standard gas
202 pCO2D: Uncertainties of standard gas
203 pCO2D: Water vapor correction method
204 pCO2D: Temperature correction method
205 pCO2D: at what temperature was pCO2 reported
206 pCO2D: Uncertainty
207 pCO2D: Data quality flag description
208 pCO2D: Method reference (citation)
209 pCO2D: Researcher Name
210 pCO2D: Researcher Institution
211 Var1: Variable abbreviation in data files
212 Var1: Full variable name

213 Var1: Observation type
214 Var1: In-situ observation / manipulation condition / response variable
215 Var1: Variable unit
216 Var1: Measured or calculated
217 Var1: Calculation method and parameters
218 Var1: Sampling instrument
219 Var1: Analyzing instrument
220 Var1: Duration (for settlement/colonization methods)
221 Var1: Detailed sampling and analyzing information
222 Var1: Field replicate information
223 Var1: Uncertainty
224 Var1: Data quality flag description
225 Var1: Method reference (citation)
226 Var1: Biological subject
227 Var1: Species Identification code
228 Var1: Life stage of the biological subject
229 Var1: Researcher Name
230 Var1: Researcher Institution
231 Var2: Variable abbreviation in data files
232 Var2: Full variable name
233 Var2: Observation type
234 Var2: In-situ observation / manipulation condition / response variable
235 Var2: Variable unit
236 Var2: Measured or calculated
237 Var2: Calculation method and parameters
238 Var2: Sampling instrument
239 Var2: Analyzing instrument
240 Var2: Duration (for settlement/colonization methods)
241 Var2: Detailed sampling and analyzing information
242 Var2: Field replicate information
243 Var2: Uncertainty
244 Var2: Data quality flag description
245 Var2: Method reference (citation)
246 Var2: Biological subject
247 Var2: Species Identification code
248 Var2: Life stage of the biological subject
249 Var2: Researcher Name
250 Var2: Researcher Institution
251 Var3: Variable abbreviation in data files
252 Var3: Full variable name
253 Var3: Observation type
254 Var3: In-situ observation / manipulation condition / response variable
255 Var3: Variable unit
256 Var3: Measured or calculated
257 Var3: Calculation method and parameters
258 Var3: Sampling instrument
259 Var3: Analyzing instrument
260 Var3: Duration (for settlement/colonization methods)
261 Var3: Detailed sampling and analyzing information

262 Var3: Field replicate information
263 Var3: Uncertainty
264 Var3: Data quality flag description
265 Var3: Method reference (citation)
266 Var3: Biological subject
267 Var3: Species Identification code
268 Var3: Life stage of the biological subject
269 Var3: Researcher Name
270 Var3: Researcher Institution
271 Var4: Variable abbreviation in data files
272 Var4: Full variable name
273 Var4: Observation type
274 Var4: In-situ observation / manipulation condition / response variable
275 Var4: Variable unit
276 Var4: Measured or calculated
277 Var4: Calculation method and parameters
278 Var4: Sampling instrument
279 Var4: Analyzing instrument
280 Var4: Duration (for settlement/colonization methods)
281 Var4: Detailed sampling and analyzing information
282 Var4: Field replicate information
283 Var4: Uncertainty
284 Var4: Data quality flag description
285 Var4: Method reference (citation)
286 Var4: Biological subject
287 Var4: Species Identification code
288 Var4: Life stage of the biological subject
289 Var4: Researcher Name
290 Var4: Researcher Institution
291 Var5: Variable abbreviation in data files
292 Var5: Full variable name
293 Var5: Observation type
294 Var5: In-situ observation / manipulation condition / response variable
295 Var5: Variable unit
296 Var5: Measured or calculated
297 Var5: Calculation method and parameters
298 Var5: Sampling instrument
299 Var5: Analyzing instrument
300 Var5: Duration (for settlement/colonization methods)
301 Var5: Detailed sampling and analyzing information
302 Var5: Field replicate information
303 Var5: Uncertainty
304 Var5: Data quality flag description
305 Var5: Method reference (citation)
306 Var5: Biological subject
307 Var5: Species Identification code
308 Var5: Life stage of the biological subject
309 Var5: Researcher Name
310 Var5: Researcher Institution
311 Var6: Variable abbreviation in data files

312 **Var6: Full variable name**
313 **Var6: Observation type**
314 **Var6: In-situ observation / manipulation condition / response variable**
315 **Var6: Variable unit**
316 **Var6: Measured or calculated**
317 **Var6: Calculation method and parameters**
318 **Var6: Sampling instrument**
319 **Var6: Analyzing instrument**
320 **Var6: Duration (for settlement/colonization methods)**
321 **Var6: Detailed sampling and analyzing information**
322 **Var6: Field replicate information**
323 **Var6: Uncertainty**
324 **Var6: Data quality flag description**
325 **Var6: Method reference (citation)**
326 **Var6: Biological subject**
327 **Var6: Species Identification code**
328 **Var6: Life stage of the biological subject**
329 **Var6: Researcher Name**
330 **Var6: Researcher Institution**
331 **Var7: Variable abbreviation in data files**
332 **Var7: Full variable name**
333 **Var7: Observation type**
334 **Var7: In-situ observation / manipulation condition / response variable**
335 **Var7: Variable unit**
336 **Var7: Measured or calculated**
337 **Var7: Calculation method and parameters**
338 **Var7: Sampling instrument**
339 **Var7: Analyzing instrument**
340 **Var7: Duration (for settlement/colonization methods)**
341 **Var7: Detailed sampling and analyzing information**
342 **Var7: Field replicate information**
343 **Var7: Uncertainty**
344 **Var7: Data quality flag description**
345 **Var7: Method reference (citation)**
346 **Var7: Biological subject**
347 **Var7: Species Identification code**
348 **Var7: Life stage of the biological subject**
349 **Var7: Researcher Name**
350 **Var7: Researcher Institution**
351 **Var8: Variable abbreviation in data files**
352 **Var8: Full variable name**
353 **Var8: Observation type**
354 **Var8: In-situ observation / manipulation condition / response variable**
355 **Var8: Variable unit**
356 **Var8: Measured or calculated**
357 **Var8: Calculation method and parameters**
358 **Var8: Sampling instrument**
359 **Var8: Analyzing instrument**
360 **Var8: Duration (for settlement/colonization methods)**

361 Var8: Detailed sampling and analyzing information
362 Var8: Field replicate information
363 Var8: Uncertainty
364 Var8: Data quality flag description
365 Var8: Method reference (citation)
366 Var8: Biological subject
367 Var8: Species Identification code
368 Var8: Life stage of the biological subject
369 Var8: Researcher Name
370 Var8: Researcher Institution
371 Var9: Variable abbreviation in data files
372 Var9: Full variable name
373 Var9: Observation type
374 Var9: In-situ observation / manipulation condition / response variable
375 Var9: Variable unit
376 Var9: Measured or calculated
377 Var9: Calculation method and parameters
378 Var9: Sampling instrument
379 Var9: Analyzing instrument
380 Var9: Duration (for settlement/colonization methods)
381 Var9: Detailed sampling and analyzing information
382 Var9: Field replicate information
383 Var9: Uncertainty
384 Var9: Data quality flag description
385 Var9: Method reference (citation)
386 Var9: Biological subject
387 Var9: Species Identification code
388 Var9: Life stage of the biological subject
389 Var9: Researcher Name
390 Var9: Researcher Institution
391 Var10: Variable abbreviation in data files
392 Var10: Full variable name
393 Var10: Observation type
394 Var10: In-situ observation / manipulation condition / response variable
395 Var10: Variable unit
396 Var10: Measured or calculated
397 Var10: Calculation method and parameters
398 Var10: Sampling instrument
399 Var10: Analyzing instrument
400 Var10: Duration (for settlement/colonization methods)
401 Var10: Detailed sampling and analyzing information
402 Var10: Field replicate information
403 Var10: Uncertainty
404 Var10: Data quality flag description
405 Var10: Method reference (citation)
406 Var10: Biological subject
407 Var10: Species Identification code
408 Var10: Life stage of the biological subject
409 Var10: Researcher Name
410 Var10: Researcher Institution

411	**Var11: Variable abbreviation in data files**
412	**Var11: Full variable name**
413	**Var12: Variable abbreviation in data files**
414	**Var12: Full variable name**

›. 1 through No. 410, as the information will be read by a computer computer program later on. Starting fi
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