

OFFICE DE LA RECHERCHE SCIENTIFIQUE ET TECHNIQUE OUTRE-MER

CENTRE DE NOUMÉA
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RAPPORTS
SCIENTIFIQUES et TECHNIQUES

N° 10

RESULTATS DE LA CAMPAGNE HYDROTHON 03

A BORD DU N.O. CORIOLIS

19 JUIN – 13 JUILLET 1979

PAR

C.HENIN, H.FERRER, J.MARCILLE, P.WAIGNA, S.WAIGNA, H.WALICO

et

**F. ROUGERIE, TH. BOELY, Y. DANDONNEAU
H.GIGAROFF, J.MARCHAND, J.MUYARD**

1980



Centre de Nouméa

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RÉSULTATS DE LA CAMPAGNE HYDROTHON 04

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Résumé

La campagne Hydrothon 03 s'est déroulée du 19 juin au 13 juillet 1979 entre les parallèles 17°S et 26°S et les méridiens 164°E et 172°E.

Elle a comporté 100 stations hydrologiques de 24 bouteilles au cours desquelles les mesures suivantes ont été réalisées : Température, Salinité, Oxygène, Phosphate, Nitrate (+ nitrite), Silicate, Chlorophylle.

Objectif de la campagne

Cette campagne fait suite aux campagnes Hydrothon 1 et 2 consacrées à l'étude de la convergence tropicale sud. Le développement espéré des pêches dans les eaux économiques de la Nouvelle-Calédonie étendues aux 200 milles nous a conduit à programmer cette campagne près de la Nouvelle-Calédonie.

Des opérations de radiométrie aérienne ont été faites dans la zone simultanément afin de diriger le navire vers les lieux où des concentrations de thonidés et des fronts thermiques ont été repérés.

Participants

1ère partie : du 19 juin au 30 juin 1979

C. HENIN (Chef de mission)
H. FERRER
J. MARCILLE
P. WAIGNA
S. WAIGNA
H. WALICO

2ème partie : du 2 juillet au 13 juillet 1979

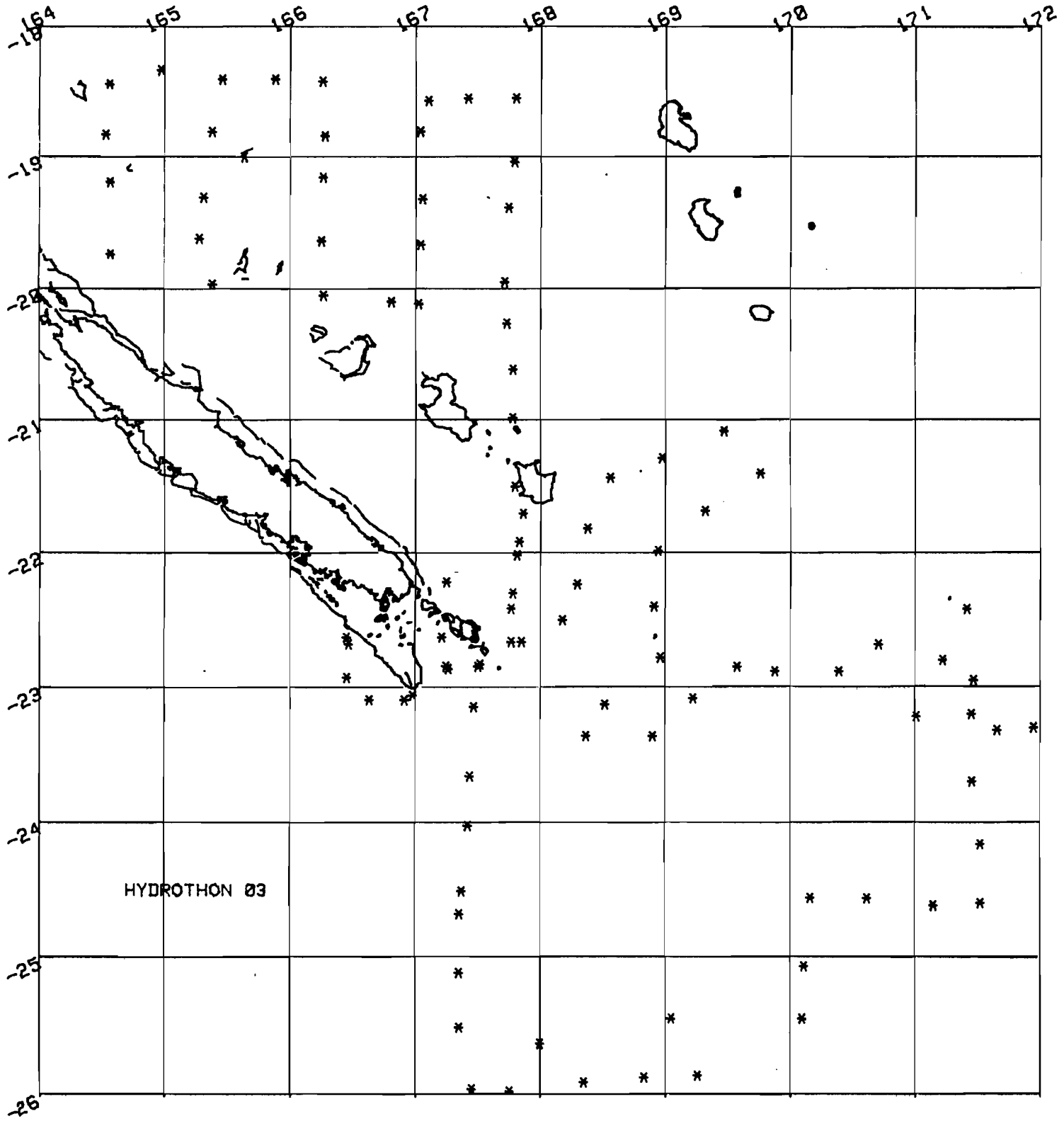
F. ROUGERIE (Chef de mission)
T. BOELY
Y. DANDONNEAU
H. GIGAROFF
J. MARCHAND
J. MUYARD

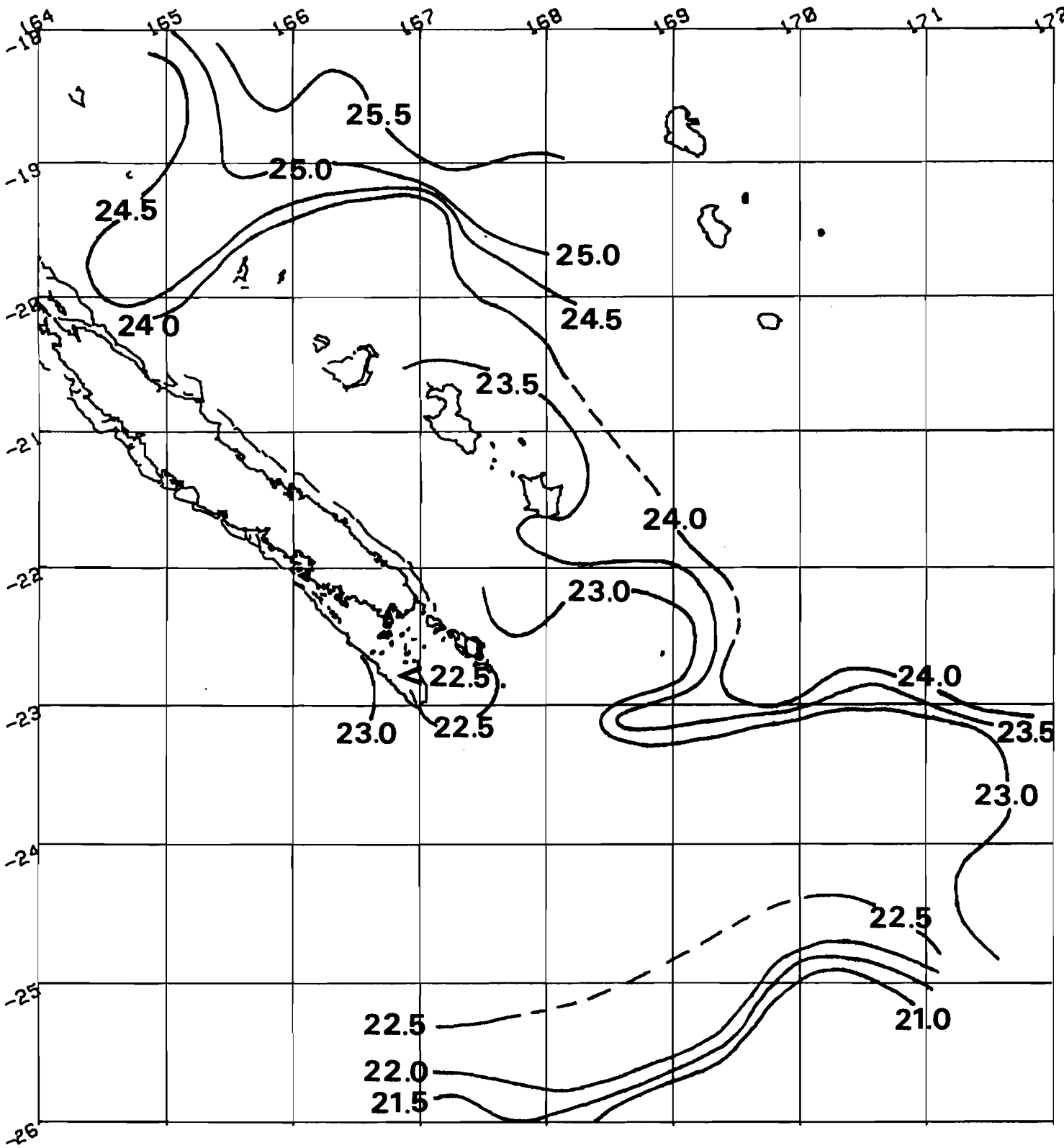
Résultats sommaires

Des fronts thermiques ont été observés en surface au cours de la première partie de la campagne vers 25-26°S et à proximité des Iles Matthew et Hunter.

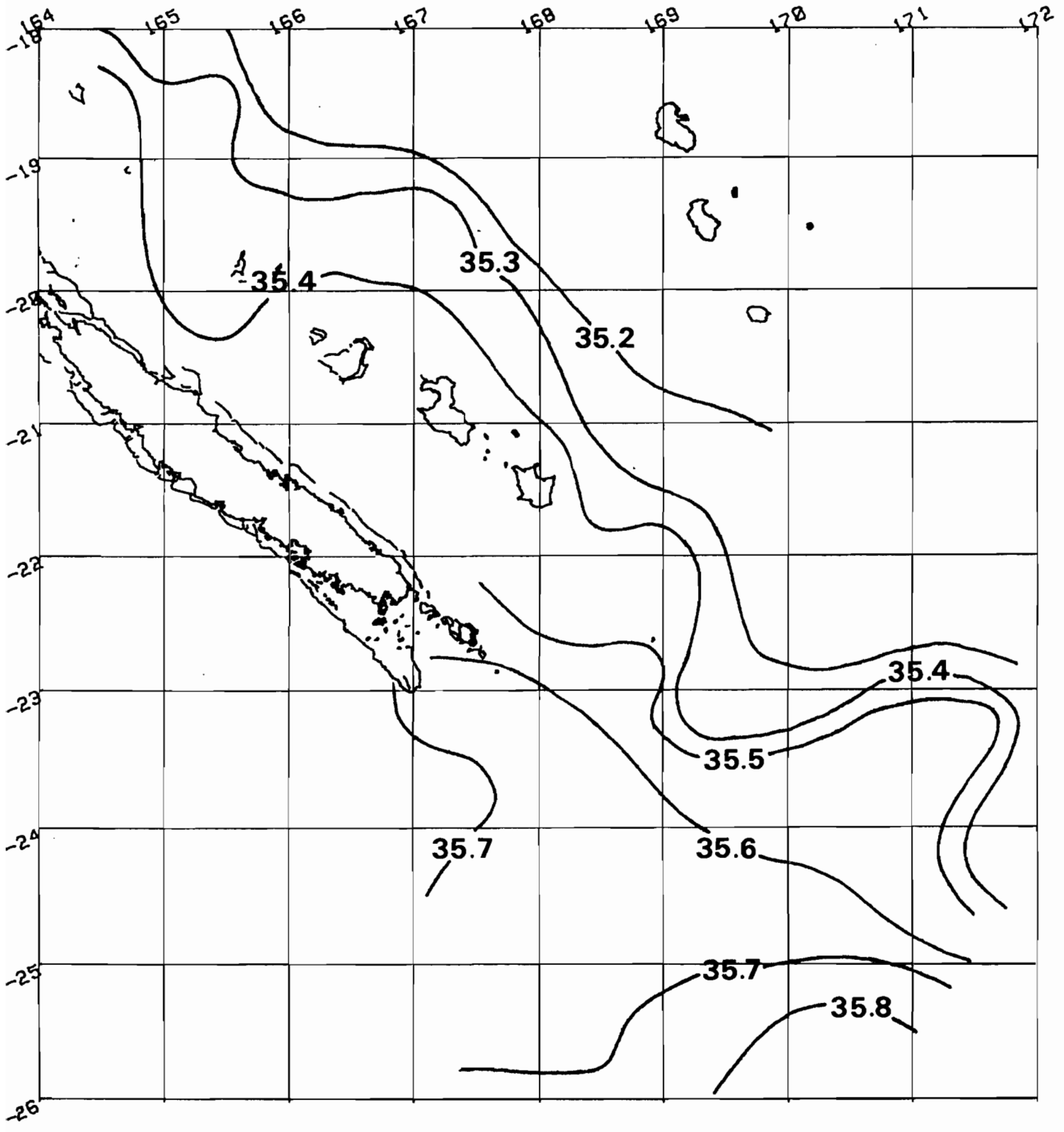
Au cours de la seconde partie la radiométrie aérienne a guidé le N.O. Coriolis vers un front thermique zonal bien marqué entre le Vanuatu et la Nouvelle Calédonie, relié au front de Matthew.

La méthode dynamique révèle un courant géostrophique dirigé vers le sud-est, donc contraire au vent qui pendant toute la campagne était de secteur Sud ou Est.

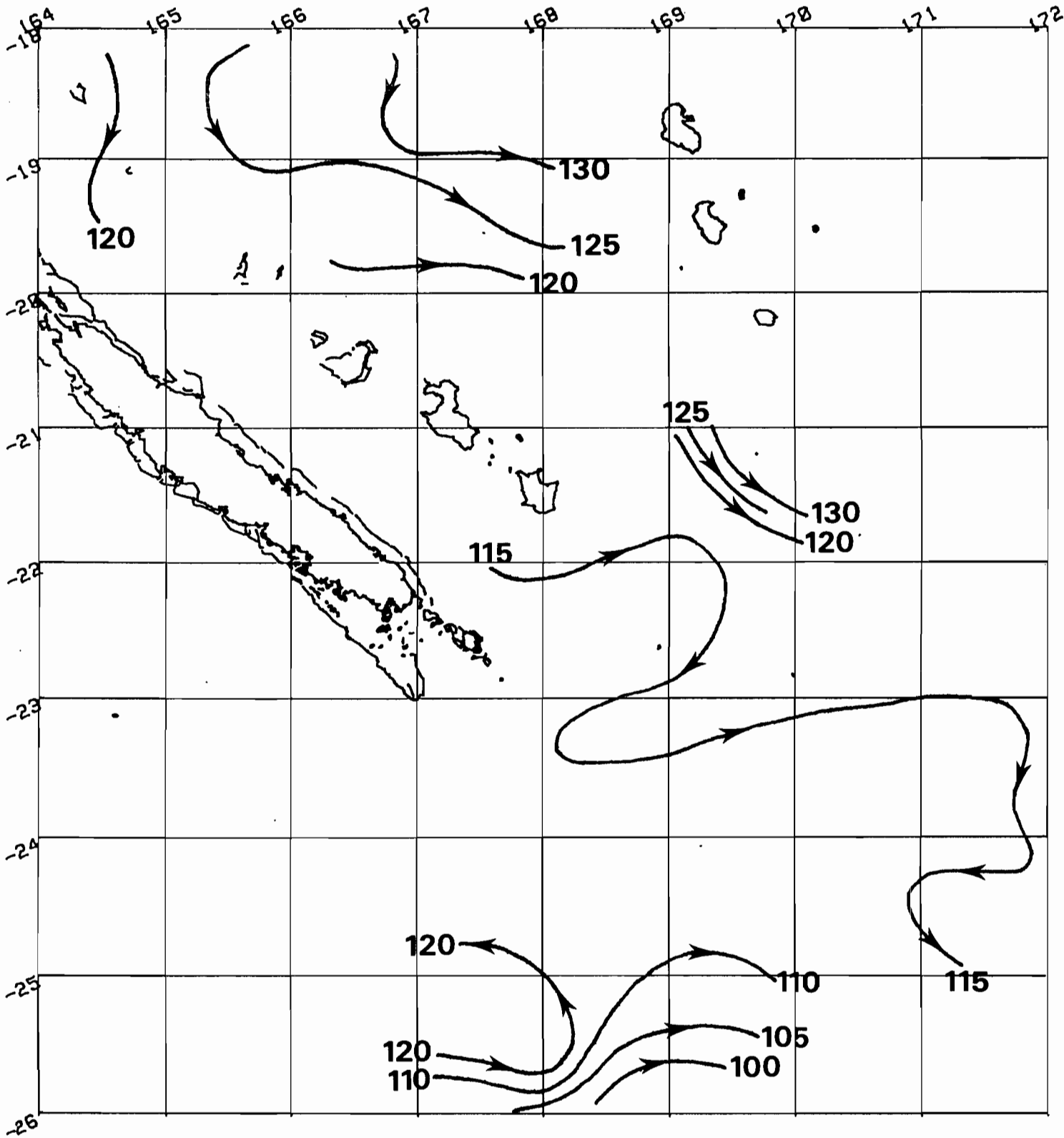




Température superficielle (°C)



Salinité superficielle (‰)



$H_{dyn} / 450 \text{ db}$

STATIONS HYDROLOGIQUES :

Campagne : HYDROTHON 03			Station : 1			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.39 S	166.24 E	19/ 6/79	19.04	140	28nd	2.0/120/ 6		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
	23.50	22.0	20.5	1023.0		1	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.06	35.802	5.85	.35	.20	1.73		
18	23.03	35.816	5.58	.32	.20	1.72		
33	23.10	35.816	5.60	.32	.20	1.72		
50	23.05	35.811	5.46	.35	.20	1.71		
66	23.02	35.802		.32	.45	1.70		
83	22.96	35.802		.32	.70	1.78		
101	22.89	35.775	5.53	.40	.85	1.86		
119	22.95		5.18	.43	1.00	2.30		
136	20.72	35.806	5.61	.40	1.10	2.30		
154	20.22	35.658	5.13	.52	1.60	2.70		
172	19.76	35.638	5.21	.51	2.00	3.10		
189	19.26	35.612	5.05	.60	2.40	2.90		
206	18.91	35.589	5.15	.63	2.60	2.70		
223	18.43	35.566	5.20	.63	3.00	3.10		
240	17.97	35.541	5.16	.74	5.20	3.70		
258	17.63	35.509	5.06	.80	7.00	4.10		
280	17.00	35.451	5.16	.83	8.00	4.20		
301	16.32	35.425	4.93	.86	9.00	5.70		
322	15.47	35.320	4.84					
345	14.60	35.234	4.82	.86	14.40	5.30		
432	12.14	34.990	4.86	1.06	12.70	8.20		
614	7.64	34.530	5.11	2.20	16.70	8.80		
804	5.52	34.480	4.89	2.70	20.00	11.70		
993	4.43	34.478	4.57	3.00	24.90	13.80		

Campagne : HYDROTHON 03			Station : 2			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.57 S	166.24 E	19/ 6/79	22.35	100	25nd	2.0/120/ 6		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
	23.06	22.1	21.8	1024.3		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.06							
23	23.02							
44	23.09							
65	23.00							
88	22.93							
111	21.11							
134	20.65							
155	20.03							
177	19.46							
199	18.86							
219	18.44							
242	17.78							
262	17.20							
305	16.02							
346	14.22							

Campagne : HYDROTHON 03			Station : 3			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.07 S	166.35 E	20/ 6/79	2.25	100	25nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.77	21.5					+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	22.77							
23	22.78							
46	22.84							
69	22.83							
92	22.83							
116	21.23							
139	20.24							
161	19.63							
185	19.01							
208	18.52							
232	17.81							
255	17.21							
279	16.34							
328	14.73							
376	13.28							

Campagne : HYDROTHON 03			Station : 4			Nb Niveaux : 22		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.05 S	166.56 E	20/ 6/79	6.36	110	30nd	3.0	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	22.27			1024.5		8	+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	22.27	35.610	5.73		.10	1.73	.42	
20	22.23	35.619	5.97		.10	1.55	.67	
39	22.32	35.613	5.74		.10	1.54	.61	
59	22.29	35.628	5.57		.24	1.71	.50	
78	21.96	35.682	5.39		.72	1.70	.30	
98	20.86		5.18					
118	20.32	35.646	5.16		2.30	2.20	.12	
137	20.26	35.618	5.30		3.10	2.10	.08	
157	19.36	35.609	5.05		3.50	2.10	.12	
176	18.91	35.580	5.32		3.90	2.40	.09	
196	18.29	35.539	5.11		4.60	2.50	.09	
215	18.15	35.538	4.97		4.70	2.60		
235	17.83	35.498	5.19		5.30	2.70		
254	17.46	35.474	4.99		4.80	2.90		
274	16.71	35.387	5.23		6.20	3.70		
294	16.14	35.343	5.05		7.10	4.00		
318	15.15	35.260	5.34		8.30	4.70		
343	14.36							
367	13.37	35.109	5.01		10.60	5.50		
392	13.00	35.061	5.19		11.40	5.80		
441	11.44	34.880	5.04		14.40	8.00		
490	10.43	34.790	5.01		16.50	10.40		

Campagne : HYDROTHON 03			Station : 5			Nb Niveaux : 6		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.52 S	167.12 E	20/ 6/79	10.20	100	25nd	2.5/140	8	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.22	21.6	20.0	1023.5		7	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.22							
20	22.26							
39	22.28							
59	22.27							
78	22.22							
98	22.17							

Campagne : HYDROTHON 03			Station : 6			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.39 S	167.10 E	20/ 6/79	12.35	100	27nd	2.0/130	7	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.38	21.5		1022.0		7	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.38	35.554	5.87	.32	1.94	1.47	.03	
18	22.36	35.542	5.87	.32	1.58	1.38	.07	
36	22.56	35.561	3.65	.29	1.68	1.46	.56	
54	22.25	35.565	5.33	.26	1.89	1.63	.56	
73	22.23	35.572	3.88	.28	1.89	1.45	.70	
91	22.18	35.575	3.86	.28	2.04	1.44	.69	
110	22.15	35.595	4.21	.31	2.07	1.44	.64	
129	21.89	35.603	4.32	.31	2.39	1.52	.07	
148	21.15	35.609	3.38	.30	4.42	1.86	.23	
167	20.51	35.609	3.60	.42	4.68	1.94	.05	
185	20.28	35.618	2.77	.45	5.10	1.93	.08	
204	20.24	35.602	3.26	.47	5.07	2.00		
222	20.02	35.601	3.07	.47	5.05	2.10		
241	19.54	35.571						
260	19.42	35.537	4.82	.47	5.66	2.20		

Campagne : HYDROTHON 03			Station : 7			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
23.10 S	167.25 E	20/ 6/79	17.40	120	28nd	3.0/130	7	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	22.66	21.5		1021.0		7	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.66							
24	22.76							
47	22.85							
71	22.83							
95	21.29							
119	20.48							
143	20.32							
167								
191	19.01							
215	18.55							
239	18.02							
263	17.65							
286	17.22							
334	15.97							
382	14.68							

Campagne : HYDROTHON 03			Station : 8			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y Vent	H/D/P Houle			
23.41 S	167.23 E	20/ 6/79	22.37	80/28nd	3.0/130/ 7			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	22.50	22.5	20.3	1023.2		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	22.50	35.728	6.03	.40	.10	2.30	.32	
24	22.46	35.728	5.93	.34	.10	2.30	.34	
48	22.53	35.727	5.91	.33	.10	2.30	.41	
71	22.26	35.719	5.80	.38	.10	2.50	.25	
95	20.54	35.660	5.35	.54	1.80	2.80	.16	
120	20.06	35.644	5.83	.57	2.90	3.30	.10	
145	19.61	35.616	5.14	.59	3.70	3.20	.13	
169	19.15	35.593	5.14	.64	4.00	3.10	.07	
193	18.79	35.579	5.13	.63	4.40	3.20	.07	
217	18.02	35.536	5.22	.68	4.60	3.50		
241	16.61	35.363	5.10	.85		5.00		
266	15.91	35.343	5.03	.90		4.90		
290		35.253	5.11	1.01		5.80		
338	14.93	35.147	5.07	1.11		7.70		

Campagne : HYDROTHON 03			Station : 9			Nb Niveaux : 5		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y Vent	H/D/P Houle			
24.03 S	167.22 E	21/ 6/79	2.22	120/28nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	22.45	21.4		1022.7			+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	22.45							
23	22.43							
47	22.45							
71	22.31							
94	20.48							

Campagne : HYDROTHON 03			Station : 10			Nb Niveaux : 23		
Latitude	Longitude	Jo/Mo/An	Heure	D/'/ Vent	H/D/P Houle			
24.32 S	167.19 E	21/ 6/79	7.00	100/26nd	2.5/100/ 7			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.54	19.5	18.5	1023.0		7	+11	
Z	T	S	02	P04	N03	SI03	CHLA1	
0	22.54	35.597	5.94	.29	.12	2.10	.29	
19	22.52	35.628	5.51	.29	.12	2.10	.25	
38	22.58	35.628	5.50	.28	.12	2.10	.35	
57	22.55	35.632	5.35	.31	.18	2.00	.28	
76	22.56	35.632	5.64	.30	.12	2.10	.21	
94	22.32	35.652	5.40	.33	.30	2.10	.18	
113	21.36	35.683	5.27	.41	2.20	1.92	.19	
132		35.668	5.09	.41	3.50	2.10	.16	
151	19.76	35.636	4.92	.43	3.90	3.50	.11	
170	19.22	35.612	4.98	.52	4.80	2.60	.10	
188	18.61	35.581	5.14	.60	4.50	2.60	.08	
207	17.87	35.538	5.14	.60	4.90	2.60		
226	17.38	35.498	5.16	.68	6.90	2.90		
245	17.05	35.483	5.07	.68	7.70	3.20		
264	16.81	35.455	5.04	.73	8.10	3.40		
283	16.19		5.01	.79	4.40	3.60		
306	15.74	35.357	5.07	.49	7.80	4.30		
330	14.92	35.290	4.96	.84	9.50	4.60		
353	14.42							
377	14.15	35.212	4.92	.92	12.10	5.10		
473	11.29	34.894	5.04	1.03	17.40	9.00		
665	7.39	34.510	5.09	1.44	25.00	15.60		
856	5.54	34.483	4.86	2.60	30.00	3.10		

Campagne : HYDROTHON 03			Station : 11			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/'/ Vent	H/D/P Houle			
24.42 S	167.18 E	21/ 6/79	10.25	100/28nd	2.5/ 80/ 7			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.52	19.8	21.6	1023.1		5	+11	
Z	T	S	02	P04	N03	SI03	CHLA1	
0	22.52							
25	22.48							
49	22.54							
73	22.51							
98	22.54							
122	21.57							
146	20.67							
170	19.73							
194	18.78							
218	18.27							
242	17.88							
266	17.36							
291	16.92							
339	16.01							
387	14.75							

Campagne : HYDROTHON 03			Station : 12			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
25.08 S	167.18 E	21/ 6/79	14.40	90/23nd	3.0/ 80/ 7			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	22.60	22.4		1021.2		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.60	35.683	3.65	.26	.13	2.70	.05	
18		35.668	4.04	.26	.13	2.20	.07	
36	22.61	35.668	3.86	.26	.20	2.00	.05	
54	22.60	35.671						
73	22.62	35.668	3.90	.26	.13	2.10	.31	
91	22.60	35.679	4.14	.26	.13	2.10	.33	
108	22.34	35.699	3.62	.26	.20	2.10	.08	
127	21.03	35.687	3.64	.38	1.93	1.98	.05	
145	20.69	35.671	3.38	.44	2.90	2.50	.04	
164	20.25	35.644	3.35	.47	3.30	2.50	.09	
187	19.56	35.612	3.28	.50	4.00	2.50	.03	
210	18.93	35.597	3.65	.50	4.10	2.60		
233	18.79	35.585	3.69	.56	4.60	2.60		
256	18.41	35.451	3.73	.56	4.90	3.30		
347	16.68	34.937	3.31	.67	6.60	2.80		
530	11.65	34.487	3.42	1.20	14.60	3.40		
716	6.95	34.475	3.53	1.97	25.00	7.10		
958	5.64	34.656	3.32	2.30	30.20	30.60		

Campagne : HYDROTHON 03			Station : 13			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
25.32 S	167.18 E	21/ 6/79	18.29	90/25nd	3.0/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.48	22.0	21.9	1022.5		8	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.48							
23	22.46							
46	22.47							
69	21.59							
92	21.59							
115	21.14							
138	20.94							
161	20.38							
183	19.34							
206	18.50							
229	17.89							
274	17.34							
321	16.20							
365	14.86							

Campagne : HYDROTHON 03			Station : 14			Nb Niveaux : 23		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.59 S	167.24 E	21/ 6/79	22.55	90	25nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	21.38	21.0	19.3	1021.6		7	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	21.38	35.757		.32	.27	.86	.29	
20	21.35	35.759	5.95	.29	.28	.94	.52	
40	21.42	35.787	6.11	.32	.28	.85	.50	
60	21.36	35.782	5.91	.34	.29	.93	.29	
80	21.22	35.766	5.66	.34	.30	1.09	.29	
100	21.12	35.760	5.81	.34	1.44	1.69	.23	
120	20.76	35.744	6.00	.39	2.10	1.69	.14	
140	20.35	35.671	6.04	.42	3.00	1.94	.17	
160	19.45	35.642	6.01	.45	3.40	1.93	.16	
180	18.88	35.626	5.49	.50	4.30	1.84	.18	
200	18.38	35.642	5.93	.47	3.90	2.40	.13	
220	18.05	35.657	5.51	.47	2.20	2.30		
245	17.86	35.650	5.78	.49	1.74	2.30		
270	17.38	35.584	5.63	.55	1.08	2.30		
295	16.75	35.516	5.82	.64	1.15	2.80		
320	16.16	35.465	6.05	.69	1.23	3.30		
345	15.51	35.398		.78	1.37	3.50		
370	14.82	35.333	5.74	.86	1.30	3.30		
395	14.09	35.235	5.57	1.01	1.44	4.00		
420	12.98	35.132	5.33	1.09	1.45	4.50		
520	10.76	34.866	5.36	1.38	1.79	5.10		
620	8.98	34.676	5.47	1.65	1.99	5.70		
820	7.02	34.588	5.25	1.82	2.30	6.60		

Campagne : HYDROTHON 03			Station : 15			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
26.00 S	167.42 E	22/ 6/79	2.25	80	22nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	21.56	21.2		1020.8			+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	21.56							
25	21.53							
50	21.39							
75	21.31							
99	21.30							
124	21.22							
148	20.32							
173	19.17							
197	18.57							
222	18.05							
246	17.87							
271	17.59							
295	16.93							
344	15.80							
393	14.51							

Campagne : HYDROTHON 03			Station : 16			Nb Niveaux : 22		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.39 S	167.57 E	22/ 6/79	6.45	80/25nd	2.5/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.50	21.5		1020.0		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.48	35.637	5.09		.14	1.30	.30	
20	22.47	35.634	5.51	.41	.15	1.29	.32	
39	22.53	35.633	5.65	.35	.15	1.19	.31	
59	22.50	35.631	5.77	.34	.16	1.18	.35	
78	22.25	35.673	5.59	.37	1.03	1.44	.35	
98	21.40		5.38	.43	2.30	1.60		
118	20.56	35.664	5.46	.45	2.90	1.59	.13	
138	20.59	35.646	5.22	.48	3.40	1.76	.13	
157	19.78	35.616	5.19	.51	4.10	1.93	.09	
177	19.39	35.603	5.20	.50	4.60	2.10	.11	
197	18.79	35.561	5.33	.59	3.50	2.30	.08	
216	18.48	35.560	5.24	.59	2.40	2.30		
236	18.19	35.543	5.24	.61	1.75	2.20		
256	17.76	35.536	5.36	.61	1.29	2.30		
275	17.27	35.498	5.25	.64	1.16	2.50		
295	16.81	35.429	5.17	.69	1.24	3.10		
319	16.17	35.402	5.27	.75	1.17	3.20		
344	15.75	35.363	5.20	.80	1.18	3.30		
369	15.11		5.29					
	14.50	35.258	5.12	.92	1.45	4.30		
493	12.03	35.009	5.23	1.24	2.10	6.40		
593	10.02	34.793	5.36	1.53	2.60	8.40		

Campagne : HYDROTHON 03			Station : 17			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.56 S	168.18 E	22/ 6/79	10.25	80/28nd	3.0/ 80/ 9			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
6	21.40	21.3	18.8	1021.2		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	21.40							
24	21.46							
49	21.51							
73	20.97							
97	20.94							
122	20.59							
146	19.53							
170	18.57							
193	17.72							
217	16.99							
242	16.51							
266	15.77							
290	15.54							
338	14.22							
385	12.62							

Campagne : HYDROTHON 03			Station : 18			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.54 S	168.47 E	22/ 6/79	14.40	80/19nd	2.0/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	20.79	23.0		1018.7			+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	20.75	35.788	5.23	.46	.14	1.38	.32	
18	20.76	35.785	3.01	.40	.21	1.72	.35	
36	20.79	35.786	2.99	.39	.21	1.46	.07	
54	20.77	35.787	3.12	.38	.21	1.36	.08	
72	20.82		2.90	.32	.22	1.53	.07	
88	20.79	35.784	2.88					
106	20.65	35.769	3.17	.37	.48	1.52	.07	
123	20.57	35.746	3.00	.39	.82	1.42	.07	
141	19.84	35.688	2.87	.45	1.96	1.68	.06	
159	18.99	35.616	2.84	.53	3.40	2.00	.04	
176	18.60	35.576	2.92	.58	4.60	2.30	.08	
194	17.94	35.530	2.74	.63	5.70	2.70		
212	16.88	35.460	2.62	.74	7.30	3.20		
229	16.20	35.463	2.96	.73	7.30	3.10		
247	15.86	35.390	2.57	.82	8.70	3.80		
265	15.65	35.373	2.47	.84	9.30	3.90		
287	15.40	35.351	2.81	.89	9.70	4.00		
308	14.65	35.305	2.86	.97	10.60	4.40		
329	14.26		2.66					
351	13.83	35.217		1.02	12.20	5.10		
429	11.97	35.022	2.74	1.25	15.80	6.90		
584	9.09	34.862	2.78	1.48	19.10	9.60		
738	6.98	34.559	3.47	2.30	27.60	27.90		
943	5.50	34.429	2.84	1.97	26.50	14.30		

Campagne : HYDROTHON 03			Station : 19			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.53 S	169.13 E	22/ 6/79	18.25	70/25nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	20.66	21.0	19.5			8	+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	20.66							
25	20.59							
49	20.41							
73	20.36							
98	20.15							
122	19.93							
147	18.71							
171	17.54							
196	16.98							
220	16.29							
244	15.96							
269	15.41							
293	14.73							
342	13.46							
390	12.51							

Campagne : HYDROTHON 03			Station : 20			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.28 S	169.00 E	22/ 6/79	22.50	50/25nd	2.0/ 80/ 9			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.07	21.9	18.9	1017.2		2	+11	
Z	T	S	O2	PO4	NO3	SI03	CHL01	
0	22.07	35.708	6.03	.26	.10	1.13	.44	
19	22.03	35.682	5.61	.22	.10	1.22	.58	
38	22.10	35.680	4.93	.31	.10	1.39	.39	
57	21.40	35.737	4.88	.30	.98	1.57	.24	
76	21.19	35.725	4.92	.30	1.31	1.83	.20	
94	20.61	35.711	4.91	.38	1.83	1.74	.13	
112	20.70	35.713	5.04	.35	1.83	1.65	.12	
130		35.668	5.92	.37	2.20	1.65	.11	
148	19.38	35.651	5.35	.40	2.60	2.00	.11	
167	18.78	35.622	4.81	.42	2.90	1.91	.09	
186	18.28	35.568	4.84	.56	4.50	2.30	.06	
204	18.10	35.554	4.96	.59	5.10	2.80		
222	17.60	35.504	4.85	.67	6.30	2.90		
240	17.29	35.491	4.87	.69	6.60	3.00		
258	16.87	35.456	4.84	.72	7.00	5.00		
277	16.08		5.01	.54	4.40	2.30		
300	15.67	35.374	4.54	.77	7.80	3.90		
340	15.02	35.347	4.85	.85	8.80	4.00		
365	14.63	35.289	5.01	.88	10.60	4.20		
390	13.38	35.158	4.77	1.05	12.00	5.40		
490	10.64	34.850	5.19	1.39	16.70	7.80		
690	7.63	34.532	5.36	1.83	22.10	11.90		
890	5.60		4.93	2.10	25.30	24.00		
1090	4.42	34.508	4.63	2.60	30.00	40.10		

Campagne : HYDROTHON 03			Station : 21			Nb Niveaux : 19		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
25.28 S	170.03 E	23/ 6/79	6.45	50/10nd	1.5/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	20.77	21.5	19.7	1018.0		1	+11	
Z	T	S	O2	PO4	NO3	SI03	CHL01	
0	20.77	35.795	5.39	.35	.34	1.29	.25	
20	20.77	35.789	5.40	.28	.21	1.28	.40	
40	20.55	35.774	5.43	.31	.15	1.19	.36	
60	20.34	35.768	5.49	.30	.16	1.17	.25	
79	20.25	35.760	5.46	.21	.16	1.16	.30	
99	20.13	35.744	5.54	.20	.30	1.24	.25	
118	19.41	35.687	5.42	.40	1.31	1.40	.16	
138		35.579	4.89	.25	3.80	2.00	.10	
158	18.10	35.547	4.78	.25	5.10	2.30	.07	
177	17.60	35.522	4.84	.30	5.60	2.50	.04	
197	17.29	35.502	4.94	.41	6.10	2.60	.02	
216	17.02	35.490	4.87	.67	6.10	2.70		
236	16.93	35.499	5.01	.67	5.90	2.60		
256	16.60							
275	16.19	35.456	5.01	.75	6.50	2.80		
295	15.90	35.432	4.95	.86	7.20	3.10		
319	14.94	35.333	5.00	.74	9.00	3.80		
344	14.53		5.03	.88	9.60	4.10		
369	13.90	35.306	4.93	1.02	9.40	4.30		

Campagne : HYDROTHON 03			Station : 22			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/° Vent	H/D/P Houle			
25.05 S	170.04 E	23/ 6/79	10.30	50/12nd	1.5/ 80/ 6			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	20.91	23.1	21.4	1019.1		2	+11	
Z	T	S	02	P04	N03	SI03	CHLA1	
0	20.91							
25	20.91							
50	20.93							
75	20.73							
100	20.56							
125	20.03							
150	19.56							
175	18.35							
200	17.66							
225	17.06							
250	16.66							
275	16.48							
300	16.20							
349	15.40							
398	14.22							

Campagne : HYDROTHON 03			Station : 23			Nb Niveaux : 23		
Latitude	Longitude	Jo/Mo/An	Heure	D/° Vent	H/D/P Houle			
24.35 S	170.07 E	23/ 6/79	14.35	50/15nd	1.5/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.42	23.5	21.4	1006.8		6	+11	
Z	T	S	02	P04	N03	SI03	CHLA1	
0	22.42	35.666	7.10	.41	.10	1.21	.55	
20	22.42	35.664	4.62	.34	.10	1.20	.49	
40	22.47	35.662	5.39	.34	.10	1.18	.46	
60	22.45	35.662	6.07	.34	.10	1.17	.54	
80		35.666	6.30	.45	.10	1.25	.30	
99	21.73	35.717	5.10	.56	.80	1.50	.26	
119	21.27	35.697	5.35	.68	1.99	1.57	.11	
139	20.87	35.684	6.03	.59	2.40	1.56	.13	
158	20.50	35.669	5.18	.67	2.70	1.64	.08	
178	20.12	35.645	4.86	.55	3.10	1.71	.10	
198	19.27	35.603	4.52	.69	3.90	1.76	.06	
217	18.92	35.593	5.14	.63	4.20	2.00		
237	18.65	35.585	4.91	.60	4.20	1.85		
256	18.00	35.559	4.62	.74	4.60	2.00		
276	17.71	35.534	5.02	.68	4.90	2.10		
295	17.29	35.493	4.66	.70	5.60	2.40		
320	16.82	35.454	4.80	.73	6.30	2.60		
344	16.18	35.427	5.68	.78	6.70	2.80		
369	15.51	35.326	5.08	1.01	8.10	3.40		
393	15.26	35.308	5.37	.89	8.50	3.30		
490	12.65	35.026	4.91	1.15	12.30	5.10		
686	8.26	34.641	5.19	1.62	19.50	10.60		
881	5.76		4.98	2.00	22.00	23.20		

Campagne : HYDROTHON 03			Station : 24			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
24.35 S	170.34 E	23/ 6/79	18.20	50/12nd	.5/	40/10		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.47	23.5	22.0	1017.0		2	+11	
Z	T	S	02	P04	N03	SI03	CHL01	
0	22.47							
25	22.35							
50	22.40							
75	22.36							
100	22.26							
125	21.27							
150	20.76							
200	19.52							
225	18.85							
250	18.41							
275	17.82							
300	17.27							
350	15.65							
400	14.59							

Campagne : HYDROTHON 03			Station : 25			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
24.38 S	171.06 E	23/ 6/79	23.00	50/14nd	.5/	/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.99	23.4	21.9	1019.1		2	+11	
Z	T	S	02	P04	N03	SI03	CHL01	
0	22.99	35.548	4.97	.20	.27	1.71	.21	
20	22.94	35.537	5.58	.20	.27	1.52	.19	
39	22.80	35.549	4.80	.20	.27	1.58	.18	
59	22.73	35.734	4.75	.22	.27	1.38	.51	
78	22.61	35.754	5.24	.22	.27	1.35	.40	
98	22.23	35.762	5.23	.25	.87	1.59	.29	
117	21.37	35.701	5.16	.33	1.33	1.39	.14	
137	20.60	35.670	4.39	.39	2.00	1.54	.12	
156	20.05	35.647	4.91	.45	2.90	1.69	.08	
176	19.79	35.642	4.44	.39	3.20	1.75	.15	
195	19.22	35.611	4.72	.50	3.90	1.81	.04	
215	18.71				4.30	2.40		
235	18.30	35.559	5.00	.56	4.70	2.10		
254	17.69	35.535	4.83	.61	5.20	1.99		
273	17.23	35.500	4.94	.64	5.50	1.92		
293	16.93	35.474	4.39	.70	6.50	2.20		
317	16.56	35.443	4.49	.72	7.10	2.40		
342	16.04	35.455	4.56	.69	7.10	2.60		
366	15.20	35.332	4.38	.83	8.90	3.00		
391	14.81	35.300	6.18	.83	8.10	3.10		
487	11.94	34.994	4.47	1.21	13.90	4.00		
678	7.85	34.533	4.71	1.82	22.80	11.00		
			4.81	1.83	23.80	17.90		
		34.469	5.48	2.60	31.20	28.50		

Campagne : HYDROTHON 03			Station : 26			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
24.37 S	171.29 E	24/ 6/79	2.19	50/16nd	/	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	23.25	23.0	20.8	1018.7			+11	
Z	T	S	O2	PO4	NO3	SI03	CHLA1	
0	23.25							
24	23.24							
48	23.26							
72	23.29							
96	22.55							
120	21.16							
143	20.50							
166	19.84							
213	18.90							
237	18.33							
261	17.75							
284	17.39							
332	16.13							
379	14.61							

Campagne : HYDROTHON 03			Station : 27			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
24.11 S	171.29 E	24/ 6/79	6.35	60/15nd	.1/	70/ 9		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	23.22	23.4	21.7	1019.5		4	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLA1	
0	23.22	35.309	5.38		.10		.23	
20	23.18	35.280	5.71		.10		.25	
40	23.07	35.285	5.38	.34	.10		.12	
59	22.86	35.509	5.28	.28	.10		.30	
79	22.17	35.679	5.42	.31	.10		.44	
98	21.15	35.681	5.14	.34	.10	1.38	.33	
117	20.79	35.674	4.91	.33	.20	1.27	.24	
137	20.20	35.658	4.76	.36	1.13	1.24	.22	
156	19.65	35.631	4.75	.36	2.10	1.22	.16	
176	19.27	35.614	4.78	.39	2.80	1.37	.15	
195	18.65	35.577	4.82	.44	2.60	1.52	.09	
215	18.33	35.561	4.65	.47	3.70	1.76		
234	17.96	35.541	5.19	.53	4.70	1.73		
254	17.56	35.519	4.96	.49	5.10	1.79		
273	17.14	35.484	4.68	.61	5.90	2.10		
292	16.84	35.456	4.88	.61	6.30	2.30		
317	16.00	35.368	4.87	.63	6.70	2.40		
341	15.39	35.310	5.36	.75	6.50	2.70		
365	14.78	35.252	4.75	.78	8.50	2.70		
389	14.50	35.212	4.69	.83	9.30	3.70		
486	11.60	34.895	4.83	.86	13.70	3.80		
680	7.30	34.482	5.12	1.27	21.20	11.30		
875	5.50		5.11	1.91	21.70	17.10		
1170	4.15	34.485	4.56	2.10	29.10	39.90		

Campagne : HYDROTHON 03			Station : 28			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.43 S	171.25 E	24/ 6/79	10.25	60/14nd	.1/ 80/ 9			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.77	23.9	22.3	1020.6		3	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	22.77							
22	22.72							
44	22.73							
66	22.66							
89	21.31							
112	20.37							
134	19.80							
156	19.35							
178	19.05							
201	18.40							
224	18.06							
246	17.42							
268	16.97							
314	15.67							
356	14.18							

Campagne : HYDROTHON 03			Station : 29			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.13 S	171.25 E	24/ 6/79	14.40	80/13nd	.1/ 80/ 9			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.79	23.9	22.5	1008.1		7	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	22.79	35.524	6.36		.13	1.21	.23	
20	22.73	35.515	6.44		.13	1.21	.23	
39	22.74	35.515	5.03		.13	1.29	.28	
59	22.65	35.536	5.24		.20	1.29	.29	
78	22.32	35.697	5.48		.13	1.29	.69	
98	21.56	35.701	4.83		.33	1.46	.40	
118	20.53	35.668	5.78		.67	1.63	.29	
138	20.01	35.650	4.30		2.30	1.62	.19	
157	19.56	35.627	4.98		3.00	1.79	.09	
177	19.13	35.609	4.82		3.40	1.88	.04	
196	18.92	35.598	4.81		3.70	1.96	.03	
216	18.44	35.576	4.64		4.00	2.10		
235	18.10	35.542	5.21		4.30	2.10		
255	17.83	35.527	5.22		4.70	2.10		
275	17.57		5.06		4.90			
294	16.98	35.455	5.09		2.20	2.50		
319	16.24	35.381	4.89		5.10	2.80		
343	15.39	35.293	4.82		6.50	3.20		
368	14.87		4.76		7.90	3.20		
392	14.48	35.209	5.09		7.70	3.80		
490	11.74	34.909	4.82		9.10	5.70		
687	7.25	34.479	4.26		13.30	12.00		
883	5.48		5.31		21.20	20.50		
1179	4.14	34.480	4.17		30.20	28.90		

Campagne : HYDROTHON 03			Station : 30			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
22.58 S	171.26 E	24/ 6/79	17.35	80/15nd	2.5/ 80/ 9			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	24.30	24.0	22.5	1018.0		7	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.30	35.288						
25	24.27							
50	23.49	35.367						
75	23.04	35.547						
100	21.63	35.701						
125	20.61	35.677						
150	20.04	35.650						
175	19.38	35.623						
200	18.69	35.581						
225	17.97	35.544						
250	17.51	35.505						
275	16.99	35.468						
300	16.40	35.422						
350	15.42	35.317						
400	14.11	35.183						

Campagne : HYDROTHON 03			Station : 31			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.19 S	171.54 E	24/ 6/79	22.25	70/18nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	23.68	23.4	22.1	1020.0		8	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.68	35.348	5.65	.38		1.46	.34	
20	23.75	35.341	5.35	.41		1.36	.31	
40	23.42	35.528	5.43	.38	.10	1.25	.59	
60	23.23	35.572	5.36	.44	.10	1.32	.50	
80	23.04	35.646	5.52	.40	.10	1.21	.53	
100	22.58	35.704	5.06	.40	.20	1.46	.45	
120	21.00	35.677	5.22	.43	.30	1.44	.31	
140	20.23	35.656	5.00	.58	.40	1.51	.17	
160	19.67	35.642	4.76	.52	2.20	1.49	.13	
180	19.13	35.610	4.78	.57	2.80	1.65	.10	
200	18.80	35.591	5.13	.57	3.10	1.71	.07	
220	18.47	35.572	4.83	.69	3.90	2.00		
239	18.02	35.538		.72	3.00	1.85		
258	17.58	35.514	5.34	.66	4.40	2.00		
278	17.14	35.486	4.96	.66	5.00	2.20		
297	16.91	35.471	4.91	.80	5.60	2.20		
322	16.34	35.427	5.27	.71	5.80	2.50		
347	15.50	35.346	4.87	.92	6.40	2.80		
371	14.69	35.297	4.98	.86	7.20	3.10		
396	14.03	35.175	4.89	1.09	7.60	3.80		
495	11.43	34.898	5.11	1.29	9.40	5.70		
695	7.21	34.481	5.42	2.10	13.70	12.10		
895	5.42		5.18	1.97	21.00	14.60		
1094	4.12	34.470	4.70	2.60	29.30	47.20		

Campagne : HYDROTHON 03			Station : 32			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
23.20 S	171.37 E	25/ 6/79	1.15	80/10nd	/	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	23.28	23.2	20.8	1019.4			+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	23.28							
25	22.88							
50	22.71							
75	22.66							
100	20.96							
125	20.12							
150	19.64							
175	19.24							
200	18.69							
225	18.10							
250	17.53							
275	17.01							
300	16.38							
350	15.07							
400	13.65							

Campagne : HYDROTHON 03			Station : 33			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
23.14 S	170.58 E	25/ 6/79	6.32	90/10nd	.8/	40/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.88	23.6	22.2	1019.5		7	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.88	35.535	5.97	.44			.18	
20	22.78	35.556	5.52	.44		1.36		
39	22.81	35.579	5.91	.44		1.25	.12	
58	22.54	35.663	5.72	.44	.27	1.23	.20	
78	22.37	35.762	5.65	.41	.28	1.21		
97	21.88	35.753	5.27	.41	.69	1.20	.34	
117	21.46	35.716	5.21	.44	1.36	1.26	.24	
136	20.59	35.674	5.14	.53	2.20	1.42	.20	
156	19.90	35.644	4.89	.59	2.80	1.58	.08	
175	19.32	35.620	4.96	.59	3.60	1.65	.08	
194	18.76	35.588	4.86	.94	4.30	1.89	.07	
213	18.38	35.567	5.02	.65	4.50	1.87		
232	18.07	35.532	5.18	.67	4.90	1.94		
252	17.79	35.523	4.94	.73	5.10	2.00		
271	17.43	35.505	4.94	.73	5.50	2.20		
290	16.88	35.471	4.97	.79	6.20	2.30		
315	16.17	35.401	5.00	.82	6.80	2.60		
339	15.59	35.361	5.00	.91	7.20	2.80		
353	15.09	35.353	5.00	.88	7.40	2.90		
387	14.43	35.236	4.99	1.14	8.80	3.60		
484	11.34	34.895	5.11	1.35	13.20	5.70		
677	7.29	34.513	5.25	1.94	20.10	12.30		
870	5.36		5.05	1.82	19.20	18.30		
1062	4.05	34.485	4.82	2.70	28.70	47.90		

Campagne : HYDROTHON 03			Station : 34			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.49 S	171.11 E	25/ 6/79	10.25	50/18nd	1.0/ 90/12			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.27	24.1	22.5	1019.1		7	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.23							
25	24.23							
50	23.21							
75	22.96							
100	22.07							
124	20.64							
148	19.80							
173	19.35							
197	18.88							
222	18.21							
246	17.71							
271	17.17							
295	16.55							
343	15.64							
390	13.71							

Campagne : HYDROTHON 03			Station : 35			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.26 S	171.23 E	25/ 6/79	14.14	60/15nd	1.5/ 80/ 8			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.65	25.5	23.6	1015.8		7	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.61	35.245	5.38	.41	.13	1.39	.30	
25	24.61	35.246	5.04	.35	.26	1.30	.39	
49	24.64	35.245	4.93	.35	.12	1.30	.36	
73	24.61	35.253	5.42	.47	.18	1.39	.26	
98	22.74	35.743	4.58	.73	1.98	1.65	.19	
122	22.00	35.741	4.38	.53	2.60	1.83		
147	21.56	35.721	4.55	.53	3.40	1.65	.13	
171	20.74	35.683	4.41	.50	3.40	1.65	.04	
196	20.26	35.664	4.59	.65	3.20	1.65	.09	
220	19.36	35.622	4.27	.59	3.40	1.83		
245	18.67							
269	18.15	35.559	5.03	.59	4.10	2.10		
293	17.57	35.513	4.77	.59	4.60	2.20		
339	16.33	35.402	4.63	.79	6.30	2.90		
387	14.80	35.260	4.92	.94	8.20	3.80		

Campagne : HYDROTHON 03			Station : 36			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
22.42 S	170.40 E	25/ 6/79	22.40	30/12nd	/	/	/ /	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.43	25.0	22.6	1015.6		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.43	35.295	5.42	.26	.13	1.29		
20	24.42	35.283	5.04	.26	.19	1.37		
40	24.37	35.309	5.17	.25	.25	1.28		
60	23.10		4.75	.22	.11	1.09		
80	23.09	35.555	4.87	.22	.11	1.17		
100	22.08	35.705	4.52	.30	.50	1.34		
120	21.19	35.690	4.51	.36	1.29	1.42		
140	20.26	35.662	5.17	.41	2.40	1.50		
160	19.81	35.642	5.11	.41	2.70	1.58		
180	19.46	35.624	5.74	.40	3.20	1.66		
200	19.05	35.601	5.67	.58	3.60	1.83		
220	18.61	35.577	5.13	.48	3.80	1.82		
240	18.16	35.548	4.77	.51	4.00	1.90		
259	17.83	35.534	5.20	.51	4.40	2.20		
279	17.37	35.502	6.53	.53	4.90	2.20		
298	16.85	35.452	5.38	.59	5.40	2.40		
323	16.36	35.405	4.75	.61	5.90	2.70		
347	15.50	35.326	5.19	.67	6.80	3.10		
371	14.81	35.256	5.42	.78	7.60	3.60		
396	14.17	35.195	4.65	.81	8.60	3.90		
495	11.01	34.887	5.23	1.10	12.60	6.20		
695	7.43	34.524	5.95	1.62	19.90	12.70		
894	5.32	34.486	5.63	2.00	23.10	25.40		
1093	4.08	34.471	5.12	2.40	28.00	48.20		

Campagne : HYDROTHON 03			Station : 37			Nb Niveaux : 13		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
22.54 S	170.21 E	26/ 6/79	2.15	210/12nd	/	/	/ /	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.24	22.2	21.2	1013.6			+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.24							
25	22.89							
50	22.29							
74	22.20							
98	22.16							
122	21.40							
146	20.49							
170	19.46							
194	18.98							
217	18.65							
240	18.26							
263	17.43							
285	16.85							

Campagne : HYDROTHON 03			Station : 38			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
22.54 S	169.50 E	26/ 6/79	6.47	180	38nd	1.0	190/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	24.34	21.5	20.0	1014.5		7	+11	
Z	T	S	02	P04	N03	SI03	CHL01	
0	24.34	35.301	5.98	.36	.20	1.48		
18	24.33	35.281	5.82	.33	.10	1.48		
36	24.35	35.288	6.04	.33	.10	1.39		
52	24.33	35.286	6.35	.34	.10	1.39		
70	23.76	35.360	6.05	.31	.10	1.39		
87	22.95	35.534	5.85	.34	.10	1.65		
104	22.88	35.557	5.83	.32	.10	1.30		
121	22.81	35.572	5.76	.32	.10	1.30		
138	22.67	35.701	5.78	.32	.10	1.30		
156	22.43	35.739	5.65	.36	.17	1.39		
173	21.74	35.725	5.71	.39	.71	1.57		
190	20.99	35.680	5.51	.36	1.65	2.10		
207	20.67	35.724	5.56	.46	1.58	1.48		
224	20.43	35.664	5.82	.43	2.50	1.65		
241	20.11	35.657	5.34	.43	2.80	1.74		
259	19.78	35.651	5.33	.47	3.10	1.74		
280	19.44	35.632	5.37	.50	3.70	1.83		
304	19.22	35.622	5.53					

Campagne : HYDROTHON 03			Station : 39			Nb Niveaux : 13		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
22.52 S	169.32 E	26/ 6/79	11.45	190	20nd	1.0	210/11	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	24.26	21.9	18.7	1015.1		1	+11	
Z	T	S	02	P04	N03	SI03	CHL01	
0	24.26	35.321						
25	23.80	35.335						
50	23.28	35.447						
75	22.53	35.730						
100	21.83	35.710						
125	21.05	35.686						
150	20.02	35.646						
175	19.60	35.626						
200	18.86	35.561						
225	18.29	35.559						
250	17.73	35.517						
274	17.09	35.477						
298	16.40	35.420						

Campagne : HYDROTHON 03				Station : 40			Nb Niveaux : 24	
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
23.06 S	169.11 E	26/ 6/79	14.28	180	18nd	1.5/190/ 9		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	23.61	23.3	19.0	1013.0		3	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLA1	
0	23.61	35.351	5.95	.43	.10	1.29		
20	23.49	35.379	5.73	.45	.11	1.28		
40	23.42	35.517	5.46	.67	.10	1.19		
60	23.05	35.651	5.32	.46	.09	1.17		
80	22.69	35.714	5.38	.48	.14	1.86		
100	22.27	35.744	5.25	1.09	.20	1.33		
120	21.03	35.678	5.08	.49	1.32	1.49		
140	20.34	35.658	5.76	.51	1.84	1.48		
160	20.16	35.652	5.04	.50	2.20	1.55		
180	19.93	35.642	5.06	.52	2.60	1.63		
200	19.34		5.00	.60	2.70	1.71		
220	18.68	35.586	5.34	.53	3.20	1.96		
240	18.63	35.576	5.43		3.30	1.86		
260	18.26	35.563	5.31		3.50	1.94		
279	18.14	35.559	5.35		3.60	1.92		
298	17.32	35.492	5.31		4.40	2.30		
323	16.17	35.398	5.13		5.90	2.90		
347	15.75	35.383	5.09		6.30	3.10		
372	14.91	35.278	4.99	.87	7.30	3.60		
396	14.57	35.255	4.91	.86	8.10	3.90		
496	11.57	34.966	5.17	1.11	11.70	6.20		
675	7.87	34.630	5.82	1.46	16.90	9.80		
894	5.68		5.08	1.59	18.90	17.40		
1093	4.27	34.480	5.67	2.30	25.40	46.70		

Campagne : HYDROTHON 03				Station : 41			Nb Niveaux : 15	
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
23.23 S	168.51 E	26/ 6/79	18.27	200	20nd	/200/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	22.76	22.0	18.5			2	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLA1	
0	22.76							
24	22.76							
49	22.68							
73	22.47							
98	22.46							
122	21.82							
147	20.52							
171	19.66							
196	19.22							
221	18.70							
245	18.11							
270	17.39							
294	16.77							
342	15.20							
390	14.08							

Campagne : HYDROTHON 03				Station : 42			Nb Niveaux : 24	
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.23 S	168.19 E	26/ 6/79	22.40	200	20nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.51	21.6	19.6	1014.6		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.51	35.640	4.96	.29	.10		.18	
19	22.51	35.641	5.18	.29	.26	2.10	.19	
37	22.56	35.638	5.18	.34	.14	2.00	.25	
55	22.55	35.648	4.81	.28	.10	1.98	.22	
74	22.63	35.650	4.85	.25	.10	1.94	.22	
93	22.56	35.655	6.38	.30	.10	1.82	.29	
112	22.42	35.686	6.38	.30	.20	2.20	.22	
130	21.10	35.686	5.99	.50	1.31	2.30	.12	
149	20.13	35.655	5.84	.50	1.83	2.20	.12	
168	19.34	35.615	5.23	.52	2.90	2.30	.08	
187	18.93	35.596	6.43	.63	3.40	2.40	.07	
206	18.62	35.579	6.16	.60	3.40	2.50		
224	18.49	35.572	5.77	.63	3.30	2.40		
243	18.04	35.548	5.94	.77	3.80	2.70		
261	17.66	35.522	5.13	.68	4.90	2.80		
280	17.49	35.510	6.21	.67	5.40	2.80		
303	17.25	35.495	5.89	.70	5.30	2.80		
327	16.65	35.448	5.15	.70	5.20	3.00		
351	16.02	35.392	6.66	.75	6.20	3.30		
374	15.34	35.328	5.14	.78	6.90	3.70		
468	12.79	35.078	6.55	1.01	9.30	5.10		
622	7.52	34.534	6.10	1.59	15.90	11.90		
842	5.57	34.858	6.03	1.38	14.80	16.10		
1029	4.01	34.518	5.89	2.00	22.10	47.50		

Campagne : HYDROTHON 03				Station : 43			Nb Niveaux : 15	
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P	Houle	
23.09 S	168.28 E	27/ 6/79	2.20	210	18nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.75	22.7	19.4	1013.1			+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.75							
22	23.35							
43	22.84							
64	22.62							
85	22.52							
106	22.25							
127	21.84							
148	20.78							
170	20.16							
191	19.64							
212	19.18							
233	18.49							
254	17.72							
297	16.22							
339	14.89							

Campagne : HYDROTHON 03			Station : 44			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.48 S	168.55 E	27/ 6/79	6.37	230	15nd	.2/230	/ 8	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.72	21.0	10.6	1013.5		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.72	35.518	5.55	.26	.15	2.10	.11	
19	22.71	35.507	5.60	.28	.10	2.10	.13	
37	22.73	35.541	5.53	.31	.10	2.10	.11	
56	22.52	35.616	5.32	.28	.10	2.10	.27	
75	21.71	35.684	5.54	.24	.43	2.20	.23	
93	20.67	35.661	5.41	.27	1.20	2.50	.19	
111	20.08	35.635	5.41	.32	2.00	2.50	.14	
129	19.06	35.605	5.33	.61	2.90	2.70	.08	
147	18.99	35.603	5.31	.55	3.20	2.70	.04	
166	18.67	35.583	5.38	.58	3.70	2.80	.04	
184	18.32	35.577	5.17	.51	4.20	2.90	.06	
203	17.94	35.548	5.56	.63	4.40	3.40		
221	17.72	35.527	5.22	.77	4.70	3.30		
240	17.26	35.505	5.51	.80	4.80	3.30		
258	16.88	35.464	5.15	.91	5.00	3.50		
276	16.52	35.431	5.20	.96	5.70	3.70		
299	15.67	35.350	5.14	.76	6.30	4.10		
322	14.64	35.267	5.12	.69	7.80	4.60		
345	14.33		5.27					
367	13.64	35.142	5.23	1.04	9.70	5.30		
460	11.71	34.952	5.55	1.68	12.30	6.60		
649	7.51	34.511	5.63	1.59	19.60	12.20		
838	5.52	34.422	5.69	1.76	24.30	27.10		
1026	4.35	34.512	5.30	2.30	26.90	41.60		

Campagne : HYDROTHON 03			Station : 45			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.25 S	168.52 E	27/ 6/79	10.22	190	18nd	.1/210	/ 7	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.64	22.2	19.2	1013.6		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.64							
25	22.66							
49	22.72							
73	22.61							
97	22.37							
121	20.91							
145								
168	19.44							
192	18.53							
217	17.62							
241	17.23							
265	16.82							
289	16.22							
337	15.04							
384	13.47							

Campagne : HYDROTHON 03			Station : 46			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P Houle		
22.00 S	168.54 E	27/ 6/79	14.20	210	12nd	.1/210/ 7		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.46	23.0	20.2	1011.3		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.46	35.457	6.05	.29	.11	1.82	.12	
19	23.52	35.458	5.95	.37	.10	1.80	.17	
38	23.29	35.491	5.17	.36	.10	1.79	.02	
57	22.92	35.488	5.76	.53	1.45	1.96	.22	
76	22.80	35.521	5.70	.53	1.57	1.94	.24	
95	22.39	35.640	5.42	.37	1.68	1.93	.18	
114	21.55	35.707	5.67	.37	2.20	2.00	.06	
132	20.86	35.664	5.78	.39	1.77	2.20	.17	
151	19.67	35.629	5.67	.44	2.60	2.30	.13	
170	19.08	35.610	5.80	.43	3.10	2.40	.05	
189	18.92	35.600	5.16	.49	3.20	2.50	.02	
208	18.17	35.567	5.18	.48	3.80	2.80		
227	17.75	35.532		.59	4.30	2.90		
245	17.31	35.520	5.35	.61	4.60	3.10		
264	16.84	35.475	5.22	.67	5.10	3.20		
283	16.41	35.443	5.49	.63	6.10	3.50		
307	16.32	35.426	5.49	.63	5.30	3.50		
331	15.77							
354	14.93	35.279	5.20	.85	7.10	4.20		
378	14.37	35.219	5.25	.79	8.50	4.50		
480	11.83	34.950	5.87	1.08	11.50	6.30		
660	7.18	34.528		1.54	17.80	13.50		
857	5.21		5.61	1.33	15.70	15.80		
1054	3.86	34.500	4.91	2.20	23.90	48.80		

Campagne : HYDROTHON 03			Station : 47			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P Houle		
21.42 S	169.17 E	27/ 6/79	18.30	240	18nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.77	23.0	19.5	1011.5			+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.77							
24	24.76							
49	24.74							
73	23.62							
98	22.24							
146	20.56							
170	19.86							
195	19.33							
219	18.68							
243	18.19							
268	17.16							
292	16.61							
341	15.06							
390	13.70							

Campagne : HYDROTHON 03			Station : 48			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
21.25 S	169.43 E	27/ 6/79	22.43	230	15nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.88	22.8	19.2	1011.2		2	+11	
Z	T	S	O2	P04	NO3	SI03	CHLAI	
0	24.88	35.259		.32	.10	1.38	.31	
20	24.85	35.238	6.64	.29	.10	1.38	.30	
40	24.94	35.234	6.30	.40	.10	1.37	.30	
60	24.92	35.238	6.30	.28	.10	1.35	.27	
79	24.93	35.509	6.67	.20	.67	1.24	.32	
99	23.92	35.818	5.23	.37	3.10	1.30	.27	
119	22.66	35.808	5.72	.60	3.70	1.98	.13	
139	22.23	35.700	5.74	.39	3.50	1.70	.14	
158	21.64	35.752	6.10	.65	3.80	1.59	.11	
178	21.26	35.730	5.05	.59	4.80	1.84	.09	
198	20.50	35.688	5.42	.59	5.30	1.83	.07	
218	19.94	35.649	6.09	.67	5.70	2.00		
237	19.53	35.604	6.10	.70	5.70	2.30		
257	19.23	35.588	4.93	.67	5.50	2.10		
276	18.72	35.552	5.50	.55	5.30	2.20		
296	17.90	35.480	5.52	.69	5.30	2.10		
321	16.73	35.385	6.30	.72	6.30	2.30		
345	16.08	35.367	7.07	.72	5.50	2.80		
370	15.29	35.268	5.98	.98	5.60	3.50		
394	14.30	35.180	6.91	.92	6.10	4.20		
490	11.28	34.892	6.69	1.24	10.70	6.50		
682	6.96	34.525	6.50	1.71	16.60	13.80		
875	5.16		5.53	1.62	16.80	20.40		
1067	3.97		5.12	1.73	18.20	28.10		

Campagne : HYDROTHON 03			Station : 49			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
21.06 S	169.26 E	28/ 6/79	2.15	220	12nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.60	23.4	20.4	1010.8			+11	
Z	T	S	O2	P04	NO3	SI03	CHLAI	
0	24.60							
25	24.58							
50	24.61							
74	23.29							
99	22.10							
124	21.34							
148	20.76							
173	19.99							
198	19.52							
223	18.83							
247	18.22							
271	17.44							
296	16.80							
345	15.17							
394	13.47							

Campagne : HYDROTHON 03			Station : 50			Nb Niveaux : 23		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
21.18 S	168.56 E	28/ 6/79	6.40	180	25nd	1.5/200/ 7		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
5	24.24	20.8	19.6	1012.0		8	+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	24.24	35.265	6.19	.38	.10	1.30	.27	
20	24.24	35.265	6.32	.38	.10	1.29	.17	
40	24.26	35.265	6.07	.34	.10	1.28	.17	
60	23.94	35.396	6.08	.31	.10	1.19	.24	
80	22.62	35.729	5.89	.40	.73	1.44	.24	
100	21.72	35.708	5.54	.45	1.93	1.52	.21	
120	21.32	35.703	5.32	.51	2.70	1.69	.17	
140	20.89	35.682	5.41	.54	2.90	1.68	.13	
160	20.19	35.646	5.33	.51	3.00	1.85	.10	
180	19.65	35.618	5.30	.59	3.70	1.93	.09	
200	19.13	35.577	5.50	.59	4.00	2.00	.08	
219	18.66	35.539	4.92	.65	4.70	2.30		
258	17.59	35.458	5.04	.73	5.50	2.60		
278	17.11	35.423	5.20	.73	5.90	2.80		
298	16.67	35.379	5.01	.81	6.30	3.20		
322	15.95	35.314	5.12	.78	6.50	3.30		
347	14.90	35.325	5.10	.75	6.10	3.10		
372	13.88	35.156	5.05	.92	7.70	4.40		
396	12.94	35.000	5.68	1.07	9.90	5.70		
496	10.39	34.826	5.33	1.39	13.30	7.10		
696	6.53	34.429	5.52	1.91	20.60	17.10		
895	4.92	34.693	5.11	1.79	19.60	23.40		
1095	3.75		4.76	2.40	27.00	53.00		

Campagne : HYDROTHON 03			Station : 51			Nb Niveaux : 13		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
21.27 S	168.31 E	28/ 6/79	10.20	190	14nd	1.0/170/ 9		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.57	22.7	19.0	1013.1		2	+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	23.57							
25	23.57							
50	23.58							
75	23.43							
100	22.38							
124	21.37							
148	20.58							
172	20.02							
197	19.22							
221	18.33							
246	17.90							
270	17.19							
294	17.14							

Campagne : HYDROTHON 03			Station : 52			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
21.50 S	168.20 E	28/ 6/79	14.35	180	15nd	1.0/180/ 9		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.74	25.0	20.2	1011.2		3	+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	23.74	35.395		.76	.10		.03	
19	23.70	35.373	5.53	.41	.10		.20	
38	23.71	35.373	5.72	.65	.10		.03	
57	23.66	35.373	6.09	.62	.10		.05	
76	22.97	35.634	5.75	.59	.10		.63	
95	22.09	35.713	5.55	.44	.38		.26	
114	21.42	35.709	5.75	.44	.98		.25	
133	20.92	35.696	5.06	.50	1.38		.13	
152	20.27	35.661	6.42	.56	1.71		.12	
171	19.83	35.643	5.80	.65	2.20		.10	
190	19.45	35.625	6.38	.53	2.50		.09	
209	19.14	35.614	6.30	.65	3.00			
228	19.04	35.601	5.89	.56	3.00			
238	18.92	35.597	6.65	.65	3.20			
262	18.28	35.562	5.72	.65	3.20	2.60		
286	17.95	35.542	6.15	.76	3.80	2.70		
309	17.53	35.517	5.59	.97	4.00	3.40		
333	16.69	35.462	6.85	.70	4.40	3.60		
356	15.53	35.381	5.55	.76	5.30	3.70		
380	14.77	35.274	3.15	.91	6.40	4.40		
476	11.25	34.900	5.00	1.11	7.20	6.90		
668	6.76	34.490	6.01	1.67	10.80	15.30		
859	5.08		5.91	1.70	19.40	24.80		
1051	4.03		5.74	1.38	20.80	30.10		

Campagne : HYDROTHON 03			Station : 53			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
22.15 S	168.15 E	28/ 6/79	18.19	180	18nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.96	22.5	19.3	1012.0		1	+11	
Z	T	S	O2	P04	N03	SI03	CHLA1	
0	22.96							
25	22.93							
75	22.85							
100	21.78							
124	20.07							
149	19.61							
173	19.33							
198	18.68							
222	18.20							
247	17.31							
271	16.42							
296	15.42							
345	13.96							
494	12.71							

Campagne : HYDROTHON 03			Station : 54			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.31 S	168.08 E	28/ 6/79	22.35	210	12nd	.5	160/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.95	22.5	19.7	1012.8		7	+11	
Z	T	S	O2	P04	NO3	SI03	CHLA1	
0	22.95	35.485	5.40	.28	.13	1.39	.29	
20	22.94	35.507	5.00	.28	.10	1.39	.34	
40		35.529	5.19	.28	.10	1.39	.28	
60	22.78	35.579	4.53	.26	.10	1.39	.16	
80	22.62	35.587	4.37	.27	.10	1.57	.15	
100	22.14	35.658		.30	.67	1.57	.16	
120	21.20	35.693	5.42	.37	1.73	1.83	.17	
140	20.67	35.655	5.07	.37	2.20	1.91	.09	
160	19.74	35.640	4.50	.44	2.80	1.91	.09	
180	19.27	35.615	3.92	.47	3.30	2.10	.07	
200	18.85	35.590	3.71	.51	3.30	2.40	.05	
220	18.45	35.575	4.50	.54	3.30	2.30		
240	18.25	35.555	3.61	.55	4.30	2.60		
260	17.57	35.519	3.98	.61	5.00	3.00		
280	16.75	35.462	4.05	.65	5.90	3.50		
300	16.02	35.390	5.25	.74	5.90	3.80		
325	15.35	35.323	3.71	.81	5.60	3.70		
350	14.63	35.313	4.16	.81	6.30	4.00		
375	14.34	35.283	4.71	.85	8.30	4.90		
400	13.72	35.158	3.90	1.03	14.90	7.70		
500	10.32	34.836	3.73	1.39	18.80	9.60		
700	6.77	34.539	5.35	1.84	22.90	10.40		
900	5.23	34.430	4.88	2.30	24.30	10.00		
1100		34.565	4.97	2.50	26.00	51.80		

Campagne : HYDROTHON 03			Station : 55			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.41 S	167.48 E	29/ 6/79	2.23	230	16nd	1.0	150/ 7	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	22.95	22.5	20.8	1012.7			+11	
Z	T	S	O2	P04	NO3	SI03	CHLA1	
0	22.95							
25	22.60							
50	22.39							
75	21.90							
100	21.42							
125	20.49							
150	19.80							
175	19.02							
200	18.84							
224	18.30							
249	17.86							
273	16.80							
298	15.91							
347	14.56							
396	12.91							

Campagne : HYDROTHON 03			Station : 56			Nb Niveaux : 19		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P Houle		
22.52 S	167.27 E	29/ 6/79	6.05	200	13nd	1.0/150/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.60	21.6	19.7	1012.5		5	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.60	35.690	5.02	.29	.10	1.30	.17	
20	22.61	35.685	4.99	.29	.10	1.30	.19	
40	22.65	35.686	5.00	.29	.10	1.29	.17	
60	22.67	35.704	5.16	.29	.10	1.29	.21	
80	22.59	35.732	4.96	.29	.10	1.28	.23	
100	22.54	35.749	4.80	.26	.22	1.36	.19	
120	22.06	35.697	5.25	.28	.35	1.36	.23	
140	21.71	35.712	4.76	.28	.68	1.44	.16	
160	21.16	35.688	4.71	.40	1.07	1.61	.13	
180	20.51	35.642	4.53	.49	1.73	1.87	.10	
200	19.98	35.624	4.54	.51	2.30	1.95	.06	
219	18.86	35.571	4.62	.57	3.40	2.40		
239	18.22	35.526	4.48	.57	4.20	2.70		
258	17.82	35.500	4.74	.54	4.40	2.90		
278	16.74	35.409	4.48	.69	5.20	3.90		
297	16.02	35.352	4.40	.68	5.90	4.50		
317	15.35	35.256	4.37	.80	6.80	6.00		
336	14.49	35.214	4.36	.68	7.50	6.50		
356	14.37	35.195	4.41	.71		7.00		

Campagne : HYDROTHON 03			Station : 57			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P Houle		
22.26 S	167.43 E	29/ 6/79	10.25	160	10nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
4	23.42	22.9	20.9	1013.1		5	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.42							
25	23.41							
50	23.14							
75	22.14							
100	21.59							
125	20.92							
150	20.67							
174	20.00							
199	19.40							
223	18.96							
248	18.27							
272	17.29							
297	16.55							
346	15.14							
396	13.71							

Campagne : HYDROTHON 03			Station : 58			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
22.02 S	167.46 E	29/ 6/79	14.31	160/10nd	/	/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.77	23.2	20.5	1010.8		4	+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	23.77	35.404	5.77		.10	2.60	.23	
20	23.64	35.384	5.24		.10	1.83	.16	
40	23.69	35.387	5.07		.10	1.48	.16	
60	23.65	35.392	5.35	.49	.10	1.30	.26	
80	23.58	35.708	4.58	.93	.13	1.57	.34	
100	21.58	35.717	5.18	.93	1.00	1.74	.17	
120	21.12	35.699	4.59	.83	1.67	1.74	.16	
140	20.47	35.672	4.96	.65	2.50	1.74	.13	
160	20.19	35.658	5.55	.74	2.70	1.74	.07	
180	20.05	35.650	4.08	.76	2.70	1.83	.06	
200	19.65	35.631	5.28	1.14	3.00	1.91	.03	
220	19.07	35.603	3.28	.61	3.10	1.91		
230	18.78	35.582	4.46	.72	3.30	2.00		
250	18.44	35.570	5.03	.69	3.70	2.10		
275	17.81	35.531	4.38	.77	3.80	2.30		
300	17.13	35.475	4.40	.74	4.30	2.60		
324	15.89	35.349	5.75	1.00	4.80	3.30		
349	15.01	35.304	4.49	2.50	6.30	3.90		
373	14.00		5.23	1.17	7.30	4.50		
398	13.41	35.196	4.92	1.10	8.30	5.50		
496	10.21	34.788	4.61	2.20	10.10	8.60		
692	6.61	34.469	4.84	2.20	14.60	20.40		
888	5.05		5.65	2.10	21.50	34.40		
1084	4.02	34.497	4.23	2.60	24.00	53.90		

Campagne : HYDROTHON 03			Station : 59			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
21.43 S	167.49 E	29/ 6/79	17.48	190/ 8nd	/	/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3		23.2	21.0	1011.5		4	+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	23.65							
25	23.66							
50	23.66							
75	23.58							
100	23.38							
124	23.30							
145	21.41							
173	20.63							
198	19.80							
221	19.10							
246	18.74							
270	17.82							
295	17.04							
344	15.45							
394	14.14							

Campagne : HYDROTHON 03			Station : 60			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/' Vent	H/D/P Houle			
22.42 S	166.25 E	2/ 7/79	21.10	180/10nd	/	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	22.77	20.2	17.0	1018.9		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.77	35.845	5.08	.30	.15	1.28	.16	
20	22.75	35.850		.30	.15	1.28		
40	22.80	35.846	5.62	.30	.15	1.37	.26	
60	22.80	35.843	5.14	.30	.15	1.37	.20	
80	22.82		5.27	.30	.15	1.92	.19	
100	22.78	35.841	5.20	.30	.15	2.75	.19	
120	22.80	35.839	5.24	.30	.15	1.46	.18	
140	21.94	35.704	2.78	.40	.20	1.65	.12	
160	20.77	35.671	4.96	.35	.57	1.83	.09	
180	19.97	35.638	4.45	.50	.20	2.20	.08	
200	19.49	35.616	4.71	.50	.28	2.40	.07	
220	18.97	35.581	4.55	.50	.20	3.50		
240	18.49	35.566	4.68	.60	.15	2.50		
260	17.97	35.529	4.57	.70	.92	2.60		
280	17.37	35.489	4.58	.80	.35	2.70		
300	16.79		4.61	.85	.21	3.20		
324	15.93	35.357	4.53	.85	4.60	3.80		
344	15.26	35.301	4.61	1.00	5.30	4.10		
365	14.42	35.289	4.57	1.00	5.00	4.60		
		35.138	4.56	1.10	5.90	5.60		
		35.832	5.04	.60				
		35.565	4.56	.70				
		35.173	4.49	1.10				
				2.20				

Campagne : HYDROTHON 03			Station : 61			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/' Vent	H/D/P Houle			
23.07 S	166.52 E	3/ 7/79	2.26	90/ 1nd	/	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	22.81	21.8	17.9				+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	22.81							
25	22.81							
50	22.88							
75	22.83							
100	22.86							
125	22.45							
150	20.64							
175	19.80							
200	18.98							
225	18.13							
250	17.49							
278	17.00							
300	16.52							
349	14.70							
389	13.21							

Campagne : HYDROTHON 03			Station : 62			Nb Niveaux : 9		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.53 S	167.13 E	3/ 7/79	7.05	270	3nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	22.25	21.5	14.5	1019.0		6	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.25	35.664	5.04		.20	1.10	.23	
20	22.31	35.658	4.96		.20	1.19	.26	
40	22.27	35.652	5.02		.21	1.19	.24	
60	22.21	35.647	5.21		.57	1.19	.23	
80	22.25	35.646	5.16		1.21	1.19	.26	
100	22.12	35.645	4.95		1.71	1.56	.28	
120	21.78	35.633	4.89		1.64	1.65	.20	
140	21.64	35.633	4.96		2.00	1.65	.18	
160	21.27	35.651	4.99		.28	1.74	.20	

Campagne : HYDROTHON 03			Station : 63			Nb Niveaux : 14		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
22.51 S	167.28 E	3/ 7/79	10.45	80	5nd	1.0/160	9	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	22.51	21.8	15.6	1019.0		6	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.51							
20	22.54							
40	22.53							
60	22.53							
80	22.53							
100	22.51							
120	22.42							
140	21.94							
160	21.41							
180	20.38							
200	19.47							
227	18.35							
253	17.38							
276	16.58							

Campagne : HYDROTHON 03			Station : 64			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P Houle		
22.41 S	167.43 E	3/ 7/79	14.46	270	3nd	.5/200/ 7		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	22.71	23.4	18.5	1016.7		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLRI	
0	22.71	35.547	5.19	.25	.37	1.11	.23	
20	22.61	35.664	5.27	.25	.37	1.11	.31	
40	22.62	35.708	5.32	.25	.37	1.11	.34	
60	22.60	35.754	5.30	.25	.37	1.11	.56	
80	22.49	35.762	5.46	.25	.44	1.30	.49	
100	22.08	35.737		.25	.74	1.48	.20	
120	21.46	35.702	5.11	.25	1.11	1.39	.19	
140	20.81	35.666	5.28	.30	1.48	1.58	.19	
160	20.32	35.624		.25	2.23	1.86	.18	
180	19.58	35.585	4.91	.40	3.20	2.20	.15	
200	19.45	35.595	4.81	.45	3.20	2.10	.13	
220	18.71	35.558	4.75	.55	3.86	2.60		
240	17.90	35.480	4.73	.55	5.10	3.20		
260	17.35	35.488	4.79	.60	5.60	2.70		
280	16.89	35.457	4.68	.60	5.90	2.80		
298	16.53		4.60	.70	7.20	3.20		
319	15.73	35.348	4.54	.70	7.90	3.40		
345	14.84	35.277	4.51	.80	9.20	4.00		
372	13.49	35.115	4.66	1.00	11.70	5.20		
393	12.79	35.037	4.72	1.10	14.00	6.30		
493	10.08	34.758	4.37	1.40	19.40	9.60		
686	6.97	34.474	4.45	2.10	26.40	19.70		
894	4.92	34.428		2.60	32.20	40.70		
1082	3.81	34.757		2.30	29.10	42.70		

Campagne : HYDROTHON 03			Station : 65			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P Houle		
22.19 S	167.44 E	3/ 7/79	19.05	120	4nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
	23.36	21.5	15.6	1017.5		7	+11	
Z	T	S	O2	P04	N03	SI03	CHLRI	
0	23.36							
20	23.36							
40	23.44							
60	23.22							
80	22.77							
100	21.58							
120	21.27							
140	20.28							
160	19.86							
180								
200	18.76							
220	18.43							
240	17.80							
260	17.15							
285	16.70							
300	15.91							
325	15.19							
350	14.45							

Campagne : HYDROTHON 03			Station : 66			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
21.56 S	167.47 E	3/ 7/79	22.48	130/	5nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	23.43	21.7	16.1	1017.8		7	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	23.44	35.412	4.76	.25	.25	1.86	.24	
20	23.44	35.410	4.68	.25	.23	1.84	.30	
40	23.50	35.403	4.73	.20	.22	1.74	.34	
60	23.35	35.410	4.72	.20	.21	1.82	.26	
80	23.29	35.543	4.54	.20	.39	1.90	.48	
100	21.97	35.705	4.29	.20	1.57	2.20	.29	
120	21.40	35.701	4.16	.25	2.20	2.20	.20	
140	20.59	35.671	4.24	.25	2.50	2.30	.15	
160	19.75	35.628	4.21	.25	3.30	2.40	.11	
180	19.27	35.603	4.24	.25	3.90	2.50	.08	
200	19.00	35.585	4.22	.35	4.30	2.50	.08	
220	18.68	35.567	4.21	.35	4.60	2.60		
240	18.34	35.540	4.19	.35	5.20	2.60		
260	17.86	35.508	4.18	.40	4.90	3.00		
278	17.34	35.467	4.19	.40	5.20	3.30		
298	16.96	35.430	4.20	.40	6.00	3.50		
317	16.33	35.381	4.15	.50	6.60	3.80		
331	15.34	35.295	4.10	.55	8.20	4.20		
347	14.77	35.232	4.10	.55	9.40	4.70		
391	13.67	35.118	4.14	.60	11.00	5.70		
485	10.92	34.830	4.22	.70	16.00	8.90		
662	7.11	34.516	4.44	1.00	23.20	18.80		
879	5.32	34.462	4.25	1.30	28.70	35.80		
1067	4.11	34.490	4.51	1.70	32.50	53.40		

Campagne : HYDROTHON 03			Station : 67			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
21.31 S	167.45 E	4/ 7/79	2.39	110/	5nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	23.47	22.4	19.2	1015.9			+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	23.42							
20	23.42							
40	23.48							
60	23.37							
80	22.68							
100	21.67							
120	21.13							
140	20.23							
160	19.77							
180	19.30							
200	18.85							
220	18.29							
240	17.68							
260	17.39							
280	16.94							
300	16.71							
320	15.95							
340	15.40							

Campagne : HYDROTHON 03				Station : 68			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle		
21.00 S	167.44 E	4/ 7/79			220/12nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt		
1	23.46	22.7	18.0	1015.5		7	+11		
Z	T	S	O2	P04	N03	SI03	CHLA1		
0	23.46	35.431	4.68	.25	.96	2.14	.20		
20	23.45	35.430	4.71	.25	.93	2.12	.14		
40	23.51	35.428	4.57	.25	.90	2.11	.17		
60	23.48	35.427	4.68	.30	.87	2.00	.18		
80	23.56	35.450	4.69	.30	.84	2.00	.20		
100	23.00	35.612	4.45	.30	.94	2.20	.20		
120	22.26	35.690	4.21	.30	1.38	2.14	.20		
140	21.65	35.696	4.26	.35	1.35	2.22	.17		
160	21.05	35.683	4.20	.35	2.10	2.40	.10		
180	19.80	35.635	3.94	.40	3.10	2.60	.10		
200	19.38	35.614	4.08	.40	3.40	2.84	.08		
220	18.85	35.590	4.13	.40	4.00	3.40			
240	18.57	35.580	4.09	.50	4.30	2.81			
258	18.13	35.553	4.07	.50	4.40	2.81			
274	17.59	35.510	4.10	.50	5.00	3.08			
288	16.96	35.451	4.05	.50	5.80	3.35			
311	16.43	35.417	4.04	.55	6.10	3.71			
333	15.74	35.369		.60	6.40	4.17			
354	14.95	35.359	4.07	.60	6.70	4.06			
379	14.23	35.249		.70	8.70	4.80			
478	11.21	35.056		1.10	13.20	6.84			
673	6.72								
		34.597		1.80					

Campagne : HYDROTHON 03				Station : 69			Nb Niveaux : 15		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle		
20.38 S	167.44 E	4/ 7/79	10.30		120/ 3nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt		
2	23.50	22.5	18.5	1015.4		2	+11		
Z	T	S	O2	P04	N03	SI03	CHLA1		
0	23.50								
20	23.38								
40	23.43								
60	23.29								
80	23.10								
100	23.00								
120	22.70								
140	21.43								
160	20.75								
180	20.17								
200	19.64								
220	19.02								
240	18.59								
260	18.11								
280	17.58								

Campagne : HYDROTHON 03			Station : 70			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P Houle		
20.17 S	167.41 E	4/ 7/79	14.34	210/	3nd	/	/	/
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	23.98	25.7	22.0	1012.9		4	+11	
Z	T	S	O2	P04	NO3	SI03	CHLR1	
0	23.98	35.393	5.70	.20	.20	1.31	.19	
20	23.65	35.385	5.76	.20	.20	1.21	.14	
40	23.70	35.401	5.74	.20	.20	1.21	.22	
60	23.73	35.520	5.67	.20	.20	1.21	.38	
80	23.29	35.705	4.99	.20	.30	1.40	.59	
100	22.45	35.728	5.01	.25	.59	1.31	.30	
120	21.58	35.715	5.26	.25	1.04	1.40	.24	
140	20.88	35.690	5.01	.25	1.76	1.59	.14	
160	20.24	35.658	5.14	.30	2.10	1.59	.13	
180	19.87	35.641	5.24	.30	2.70	1.68	.10	
200	19.33	35.618	5.29	.30	2.90	1.87	.13	
220	18.78	35.587	5.27	.30	3.50	2.05		
240	18.31	35.565	5.32	.35	3.80	2.15		
260	17.77	35.523	4.94	.35	4.40	2.34		
280	17.39	35.504	5.15	.35	4.90	2.52		
300	16.99	35.463	5.21	.40	5.30	2.71		
325	16.22	35.387	4.77	.40	6.30	3.08		
347	15.52	35.325	4.77	.50	7.10	3.55		
374	14.72	35.288	4.58	.55	7.40	3.74		
395	13.84	35.169	4.42	.55	9.50	4.58		
498	10.66	34.844	4.48	.60	14.60	7.49		
689	6.89	34.523	5.52	.80	22.60	16.58		
896	5.03	34.579	4.49	1.20	26.40	31.22		
1083	3.93	34.630	4.85	1.40				

Campagne : HYDROTHON 03			Station : 71			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P Houle		
19.58 S	167.40 E	4/ 7/79	18.20	200/	6nd	/	/	/
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
1	24.12	21.7	17.8	1013.6		3	+	
Z	T	S	O2	P04	NO3	SI03	CHLR1	
0	24.12							
20	24.05							
40	24.09							
60	23.31							
80	22.58							
100	21.89							
120	21.22							
140	20.72							
160								
180	19.79							
200	19.24							
220	18.72							
240	18.37							
260	17.82							
280	17.16							
300	16.49							
325	15.73							
346	14.49							

Campagne : HYDROTHON 03			Station : 72			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/° Vent	H/D/P Houle			
19.24 S	167.42 E	4/ 7/79	22.55	190/10nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.49	23.0	18.5	1014.4		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.49	35.188	5.64	.22	.22	1.43	.11	
20	25.49	35.177	6.29	.22	.22	1.43	.15	
40	24.40	35.323	6.22	.22	.22	1.27	.22	
60	23.95	35.401	6.34	.22	.22	1.18	.19	
80	23.89	35.297	5.87	.22	.22	1.27	.18	
100	23.82	35.475	5.35	.25	.37	1.27	.33	
120	23.26	35.653	6.04	.27	.53	1.27	.27	
140	21.94	35.730	5.28	.38	1.36	1.43	.18	
160	21.40	35.715	5.27	.41	2.00	1.60	.13	
180	20.47	35.679	5.51	.50	3.10	1.69	.09	
200	19.70	35.634	4.77	.52	3.80	1.94	.05	
220	19.26	35.606	4.98	.55	4.30	2.03		
240	18.82	35.571	4.80	.64	5.20	2.20		
260	18.02	35.482	4.53	.80	7.20	3.38		
280	17.36	35.419	5.51	.89	8.00	4.23		
300	16.36	35.325	4.40	.94	8.70	4.40		
322	15.48	35.244	4.38	1.05	10.70	5.50		
347	14.69	35.182	5.25	1.08	11.10	5.50		
371	13.83	35.133	4.51	1.14	11.80	5.84		
396	13.13	35.021	4.42	1.28	13.80	6.94		
498	10.02	34.746	4.48	1.64	20.10	10.14		
676	6.47	34.559	5.73	2.08	27.60	22.49		
895	4.66	34.489	4.46	2.56	34.80	42.34		
1082	3.75							

Campagne : HYDROTHON 03			Station : 73			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/° Vent	H/D/P Houle			
19.03 S	167.45 E	5/ 7/79	2.36	220/10nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	25.40	24.3	20.4	1013.1			+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.40							
20	25.66							
40	25.45							
60	25.34							
80	24.99							
100	24.33							
120	24.18							
140	23.01							
160	22.24							
180	21.37							
200	20.69							
220	19.96							
240	19.24							
260	18.45							
280	17.41							
300	16.76							
325	15.51							
350	14.64							

Campagne : HYDROTHON 03			Station : 74			Nb Niveaux : 23		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
18.34 S	167.46 E	5/ 7/79		200/12nd		1.0/200/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.96	23.0	19.0	1014.0		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.96	35.106	4.69	.33	.15	1.68	.19	
20	25.95	35.098	4.60	.27	.15	1.68	.26	
40	26.02	35.097	4.59	.27	.22	1.68	.21	
60	25.98	35.101	4.68	.27	.22	1.59	.23	
80	26.03	35.102	4.73	.24	.22	1.84	.23	
100	24.74	35.694	4.42	.35	.37	1.84	.33	
120	24.15	35.741	4.33	.32	.75	1.83	.31	
140	23.09	35.765	4.01	.32	1.51	1.91	.15	
160	22.68	35.755	4.00	.43	2.12	1.91	.17	
180	22.12	35.744	3.96	.43	2.30	2.41	.14	
200	20.85	35.706	4.05	.48	3.60	3.00	.11	
220	19.72	35.624	3.82	.56	5.40	3.08		
240	18.56	35.519	3.88	.68	6.40	3.67		
260	17.80	35.450	3.94	.65	6.80	3.84		
280	17.33	35.409	3.91	.76	7.80	4.77		
300	16.25	35.306	3.82	.87	8.20	5.61		
333	15.13	35.214	4.02	.95	9.10	6.45		
357	14.26	35.189	4.00	1.00	10.70	7.72		
384	13.42	35.123	4.02	1.09	14.20	8.98		
476	10.06	34.765	4.29	1.56	22.50	14.48		
673	6.33	34.535	4.07	2.03	29.20	25.06		
858	4.93	34.566	4.07	2.20	30.80	39.17		
1071	3.89	34.655	3.91	2.22	29.60	46.23		

Campagne : HYDROTHON 03			Station : 75			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
18.34 S	167.23 E	5/ 7/79	10.28	220/10nd		/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.96	23.1	19.2	1014.5		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.96							
20	25.95							
40	25.98							
60	25.89							
80	25.77							
100	24.48							
120	23.36							
140	22.58							
160	21.99							
180	21.20							
200	20.31							
220	19.67							
240	19.04							
260	17.85							
280	17.40							
300	16.99							
325	15.94							
345	15.00							

Campagne : HYDROTHON 03			Station : 76			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.35 S	167.04 E	5/ 7/79	14.45	200	18nd	1.0/200/ 7		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.99	24.6	20.5	1012.7		4	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	25.99	35.158	4.65	.25	.15	1.52	.30	
20	25.97	35.155	4.67	.25	.15	1.52	.34	
40	26.00	35.152	4.67	.25	.15	1.52	.20	
60	25.98	35.170	4.68	.25	.30	1.52	.31	
80	24.56	35.712	4.41	.30	.36	1.52	.45	
100	23.67	35.752	3.43	.44	2.00	1.86	.19	
120	23.02	35.771	3.86	.50	3.00	1.94	.12	
140	22.10	35.750	3.84	.55	3.60	2.11	.08	
160	21.42	35.723	4.04	.58	3.90	2.20	.04	
180	21.08	35.722	3.84	.61	3.90	2.03	.06	
200	20.71	35.704	3.81	.64	4.10	2.03	.06	
220	20.41	35.680	3.92	.64	4.10	2.11		
240	19.39	35.593	4.03	.72	4.80			
260	18.74	35.560	4.03	.69	4.60	2.28		
280	17.82	35.486	4.17	.72	5.40	2.70		
298	17.18	35.418	4.04	.83	6.30	3.13		
323	16.34	35.320	4.15	.97	8.00	4.57		
348	15.23	35.213	3.97	1.05	9.50	5.24		
374	14.28	35.155	4.05	1.11	10.70	5.67		
396	13.19	35.015	3.94	1.30	13.00	7.11		
496	9.54	34.702	4.46	1.61	18.60	9.26		
686	6.20	34.440	4.56	2.17	26.90	22.05		
895	4.60	34.553	4.05	2.39	30.80	39.70		
1084	3.71	34.540	3.82	2.69	35.20	46.31		

Campagne : HYDROTHON 03			Station : 77			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.49 S	167.00 E	5/ 7/79	18.25	190	14nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
	26.03	22.8	18.0	1014.5		1	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	26.03							
20	26.02							
40	26.08							
60	26.04							
80	24.56							
100	23.31							
120	22.74							
140	22.22							
160	21.47							
180	20.83							
200	20.15							
220	19.67							
240	19.09							
258	18.51							
283	17.82							
295	17.21							
318	16.24							
348	15.31							

Campagne : HYDROTHON 03			Station : 78			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
19.20 S	167.01 E	5/7/79	22.50	210	10nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	23.86	22.8	18.1	1015.2		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.86	35.380	4.89	.25	.56	1.31	.19	
20	23.86	35.377	4.83	.22	.54	1.31		
40	23.85	35.390	4.83	.22	.52	1.31	.25	
60	23.70	35.411	4.92	.20	.50	1.31	.27	
80	23.55	35.464	4.89	.20	.48	1.23	.22	
100	23.37	35.523	4.83	.22	.47	1.49	.32	
120	22.54	35.738	4.65	.25	.45	1.40	.24	
140	21.50	35.721	4.47	.38	1.34	1.58	.14	
160	20.89	35.701	4.34	.38	1.90	1.66	.12	
180	20.23	35.668	4.28	.45	2.50	1.75		
200	19.66	35.638	4.37	.45	2.70	1.84	.08	
220	19.27	35.624	4.40	.56	3.20	2.37		
240	18.76	35.587	4.42	.53	3.90	2.10		
260	18.22	35.558	4.32	.56	4.30	2.28		
280	17.73	35.527	4.32	.56	4.40	2.37		
300	17.28	35.491	3.72	.58	5.10	2.54		
324	16.15	35.375	4.27	.68	6.90	3.25		
347	15.10	35.268	4.37	.84	7.90	3.86		
374	13.91	35.189	4.40	.86	9.10	4.39		
394	13.17	35.081	4.31	.96	11.70	5.44		
496	10.14	34.876	4.50	1.40	18.10	8.43		
683	6.20	34.444	4.65	2.11	28.90	21.97		
895	4.41							
1079	3.72	34.542	3.95	2.52	37.90	52.65		

Campagne : HYDROTHON 03			Station : 79			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
19.41 S	167.00 E	6/7/79	2.40	180	12nd	/	/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.55	22.9	18.7	1015.8			+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.55							
20	23.56							
40	23.53							
60	23.40							
80	23.27							
100	22.28							
120	21.85							
140	21.32							
160	20.59							
180	20.29							
200	19.89							
218	19.11							
236	18.59							
255	18.02							
272	17.51							
291	16.78							
316	15.92							
340	15.22							

Campagne : HYDROTHON 03			Station : 80			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
20.08 S	166.59 E	6/7/79		150	14nd	.5/160/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	J Hyg	Neb	D Gmt	
2	23.56	21.2	18.0	1017.0		1	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.56	35.405	4.88	.25	.47	1.31		
20	23.54			.25	.45	1.40		
40	23.57	35.438	4.96	.22	.42	1.31		
60	23.55	35.441		.22	.40	1.40		
80	23.37	35.568	4.85	.25	.40	1.40		
100	22.98	35.668		.38	.85	1.40		
120	22.19	35.739		.40	1.65	1.66		
140	21.36	35.715		.51	2.30	2.37		
160	20.61	35.671		.53	4.00	2.02		
180	20.25	35.657		.56	4.10	2.02		
200	19.55	35.611	4.48	.56	4.50	2.10		
220	18.84	35.592		.56	4.30	2.10		
240	18.37	35.567	4.55	.58	4.60	2.37		
260	17.89	35.548		.63	5.00	2.46		
279	17.62	35.529	3.65	.66	5.11	2.54		
298	17.13	35.494		.68	5.70	2.81		
324	16.37	35.417	4.49	.76	5.60	3.25		
345	15.15	35.324		.79	6.90	3.86		

Campagne : HYDROTHON 03			Station : 81			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
20.07 S	166.46 E	6/7/79	10.26	140	20nd	1.0/160/9		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	J Hyg	Neb	D Gmt	
4	23.51	21.9	17.5	1018.1		3	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.51							
20	23.47							
40	23.54							
60	23.50							
80	23.57							
100	23.28							
120	22.74							
140	21.61							
160	21.08							
178	20.35							
196	19.90							
216	19.41							
233	18.96							
253	18.32							
269	17.88							
288	17.43							
315	17.03							
345	16.23							

Campagne : HYDROTHON 03			Station : 82			Nb Niveaux : 12		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
20.04 S	166.13 E	6/7/79	14.35	140	13nd	1.0	170/8	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.67	24.2	20.2	1016.8		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.67	35.512	3.36	.20	.33	1.05	.29	
20	23.66		4.83	.20	.33	1.05		
40	23.65	35.514	4.73	.20	.41	1.14	.24	
60	23.49	35.585	4.59	.20	.57	1.14	.61	
80	22.86	35.664	4.47	.25	.82	1.31	.26	
100	22.18	35.708	4.27	.30	1.32	1.40	.22	
120	21.86	35.720	4.24	.30	1.57	1.40	.18	
140	21.65	35.721	4.28	.30	1.40	1.40	.19	
160	21.19	35.710	4.26	.33	1.48	1.40	.16	
180	20.58	35.689	4.28	.35	2.20	1.58		
200	20.12	35.658	4.34	.38	2.40	1.66	.14	
220	19.71	35.642	4.10	.40	2.70	1.72		

Campagne : HYDROTHON 03			Station : 83			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
19.39 S	166.12 E	6/7/79	18.30	140	16nd	.7	140/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	23.80	21.7	17.5	1019.0		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	23.72							
20	23.75							
40	23.76							
60	23.73							
80	23.69							
100	23.01							
120	21.75							
140	21.32							
160	20.88							
180	20.21							
200	19.67							
220	19.14							
240	18.67							
260	18.04							
280	17.60							
300	17.01							
324	16.42							
347	15.52							

Campagne : HYDROTHON 03			Station : 84			Nb Niveaux : 20		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
19.10 S	166.13 E	6/ 7/79	22.45	160	16nd	1.0/140/ 8		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.74	21.0	18.6	1020.3		5	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.74	35.302	5.18	.21	.15	1.58	.23	
10	24.75		4.78	.21	.15	1.58	.17	
20	24.56	35.373	4.40	.21	.15	1.58	.21	
30	24.46	35.394	4.61	.21	.15	1.58	.22	
40	24.51	35.403	4.79	.21	.15	1.58	.28	
60	24.49	35.443	4.87	.21	.15	1.93	.29	
80	24.20	35.491	4.74	.21	.15	1.58	.37	
100	23.70	35.664	4.55	.24	.15	1.58		
120	22.61	35.747	4.21	.29	.82	1.93	.23	
140	21.88	35.725	4.33	.37	1.15	1.84	.17	
160	21.50	35.716	4.33	.45	1.40	1.93		
180	21.14	35.702	4.29	.48	1.98	2.28	.12	
200	20.56	35.679	4.20	.40	1.98	2.02		
250	18.23	35.499	3.71	.66	5.20	3.42		
300	16.62	35.436	4.33	.66	5.30	3.16		
350	15.01	35.276		.77	7.90	4.30		
398	13.33	35.109		.82	10.30	5.35		
444	11.53	34.925	4.33	1.20	13.40	6.76		
495	10.20	34.914	4.44	1.20	14.20	7.45		
		34.547	4.65	1.76	22.00	13.30		

Campagne : HYDROTHON 03			Station : 85			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D//	Vent	H/D/P	Houle	
18.51 S	166.14 E	7/ 7/79	2.23	120	14nd	/ / /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.08	23.3	18.8	1018.7		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.08							
20	25.06							
40	24.89							
60	24.73							
80	24.29							
100	23.75							
120	22.96							
140	22.03							
160	21.48							
180	20.37							
200	19.78							
220	19.22							
240	18.62							
260	17.68							
280	17.02							
300	16.41							
322	15.64							
347	14.73							

Campagne : HYDROTHON 03			Station : 86			Nb Niveaux : 21		
Latitude	Longitude	Jo/Mo/An	Heure	D/°	Vent	H/D/P	Houle	
18.26 S	166.13 E	7/ 7/79		140	15nd	.7	150/ 6	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.37	22.5	19.0	1018.5		7	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.37	35.108	4.79	.21	.15	1.66		
20	25.66	35.112	4.69	.24	.15	1.66		
40	25.72	35.113	4.73	.24	.20	1.66		
60	25.24	35.605	4.59	.29	.24	1.75		
80	24.13	35.713		.37	.99	1.84		
100	23.17	35.772	3.93	.50	2.50	2.10		
120	22.69	35.751	4.05	.50	2.30	2.02		
140	21.86	35.726	3.92	.56	3.10	2.28		
160	21.26	35.710	3.93	.58	3.50	2.28		
180	20.68	35.680		.61	4.00	2.37		
200	20.37	35.662	3.96	.61	4.20	2.45		
220	19.64	35.616		.69	4.70	2.72		
240	18.45	35.529	4.11	.69	4.60	2.89		
260	17.91	35.521	4.30	.64	4.20	2.63		
280	17.37	35.468	4.21	.72	5.20	2.89		
300	16.86	35.425	4.25	.77	6.30	3.24		
324	15.65	35.269	4.04	.96	8.70	4.74		
346	14.64	35.158	3.81	1.12	9.10	6.06		
370	14.12	35.158	4.24	1.01	10.30	4.79		
393	12.60	34.975	4.10	1.28	14.20	7.18		
492	9.36	34.662		1.52	17.20	11.17		

Campagne : HYDROTHON 03			Station : 87			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/°	Vent	H/D/P	Houle	
18.25 S	165.50 E	7/ 7/79	10.25	150	16nd	1.0	170/ 8	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	25.55	23.4	19.5	1020.2		6	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.55							
20	25.52							
40	25.53							
60	24.48							
80	24.07							
100	23.32							
120	22.69							
140	21.73							
160	21.03							
180	20.63							
200	20.11							
220	19.41							
240	18.74							
260	18.08							
280	17.06							
300	16.30							
320	15.46							
346	14.59							

Campagne : HYDROTHON 03			Station : 88			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.25 S	165.24 E	7/ 7/79	14.35	130	15nd	1.0	140/ 6	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	26.32	25.8	22.2	1017.5		6	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	25.32	35.319	4.78	.18	.15	1.14	.28	
20	25.32	35.287	4.74	.21	.15	1.14	.26	
40	25.36	35.285	4.72	.21	.15	1.14	.27	
60	25.30	35.290	4.76	.29	.15	1.14	.22	
80	24.83	35.582	4.61	.34	.20	1.14	.70	
100	23.44	35.737	4.28	.37	.99	1.31	.31	
120	22.99	35.768	4.12	.48	1.90	1.49	.27	
140	22.49	35.763	4.23	.50	2.30	1.58	.19	
160	21.44		4.21				.13	
180	20.84	35.715	3.92	.53	3.80	1.93	.08	
200	20.46	35.695	3.88	.53	4.10	1.93	.09	
220	19.89	35.663	4.20	.53	4.00	1.93		
240	18.88	35.621	4.07	.56	4.20	2.10		
252	18.66	35.579	4.05	.58	4.50	2.37		
277	17.97	35.524	4.05	.64	5.20	2.72		
295	17.12	35.432	4.05	.69	6.40	3.33		
320	16.04	35.343	4.10	.77	7.60	3.77		
345	14.61	35.226	4.05	.88	9.10	4.83		
363	13.90	35.190	3.98	.93	9.50	5.62		
389	12.78	35.013	3.89	1.15	12.50	7.79		
489	9.64	34.723	4.76	1.49	18.50	12.35		
680	6.35	34.545	4.34	1.82	24.10	23.33		
889	4.60	34.508	4.01	2.22	30.20	44.84		
1073	3.82	34.611	2.85	2.24	31.00	48.04		

Campagne : HYDROTHON 03			Station : 89			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.49 S	165.19 E	7/ 7/79	18.24	140	18nd	1.0	140/	
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.67	23.2	19.5	1019.5		6	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAI	
0	24.67							
20	24.65							
40	24.35							
60	24.18							
80	23.96							
100	23.34							
120	22.89							
140	22.05							
160	21.12							
180	20.59							
200	19.94							
220	19.50							
240	19.00							
260	17.95							
280	17.33							
300	16.65							
324	15.79							
348	14.48							

Campagne : HYDROTHON 03			Station : 90			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D// Vent	H/D/P Houle			
19.19 S	165.15 E	7/ 7/79	22.50	160/18nd	1.0/140/			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.87	23.1	18.6	1021.4		7	+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	24.87	35.324		.20	.37	1.16		
20	25.07	35.319	4.74	.23	.46	1.25		
40	24.90	35.381	4.73	.23	.55	1.25		
60	24.29	35.598		.25	.55	1.34		
80	23.60	35.721	4.45	.25	.74	1.42		
100	23.11	35.749	4.25	.30	1.39	1.78		
120	22.57	35.749	4.20	.28	1.39	1.60		
140		35.729	4.04	.38	2.10	1.69		
160	21.26	35.706	4.22	.36	1.90	1.69		
179	20.53	35.678	4.04	.41	2.10	1.60		
197	19.91	35.642	4.30	.43	2.60	1.87		
215	19.36	35.605	4.22	.48	3.20	2.41		
225	18.63	35.562	4.42	.43	3.60	2.14		
245	17.80	35.491	4.19	.54	4.50	2.59		
265	17.19	35.432		.56	5.10	2.76		
277	16.64	35.365		.64	6.00	3.30		
315	15.44	35.229	4.42	.72	7.90	4.11		
340	14.09	35.135		.85	8.70	5.00		
370	13.38	35.126	4.62	.82	9.20	5.00		
394	12.93	35.041	4.52	.90	10.70	5.62		
494	9.99	34.725	4.77	1.31	16.50	9.38		
685	6.39	34.615	4.03	1.75	22.30	21.41		
883	4.87	34.461	4.11	2.29	29.60	42.82		
1081	3.84	34.527	3.58	2.39	32.90	63.85		

Campagne : HYDROTHON 03			Station : 91			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D// Vent	H/D/P Houle			
19.38 S	165.13 E	8/ 7/79	2.22	170/16nd	/ /			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
3	24.67	23.8	19.8	1021.3			+11	
Z	T	S	02	P04	N03	SI03	CHLAI	
0	24.67							
20	24.72							
40	24.71							
60	24.42							
80	24.04							
100	23.34							
120	22.54							
140	22.21							
160	21.63							
180	21.01							
200	20.45							
215	19.72							
235	19.02							
250	18.51							
270	17.91							
290	16.99							
313	16.41							
331	15.92							

Campagne : HYDROTHON 03			Station : 92			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
19.59 S	165.19 E	8/ 7/79		140/	6nd	/	/	/
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
		19.8	16.0	1021.0		8	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
		35.328	4.76	.23	.36	1.25	.16	
		35.328	4.74	.23	.34	1.25	.16	
		35.340	4.72	.23	.33	1.25	.14	
		35.369	4.80	.23	.32	1.16	.03	
		35.410	4.81	.20	.40	1.16	.04	
		35.540	4.69	.23	.67	1.16	.24	
		35.677	4.42	.25	1.03	1.42	.26	
		35.734	4.19	.33	1.48	1.60	.19	
		35.705	4.27	.36	1.94	1.60	.13	
		35.680	4.27	.38	2.10	1.60	.11	
		35.662	4.29	.41	2.40	1.69	.08	
		35.629	4.39	.43	2.50	1.78		
		35.606	4.19	.43	2.90	1.96		
		35.579	4.29	.48	3.40	2.05		
		35.529	4.19	.54	4.20	2.32		
		35.481	4.26	.56	4.50	2.59		
		35.425	4.31	.61	5.60	2.94		
		35.361	4.18	.67	6.40	3.39		
		35.299	4.18	.74	7.00	4.02		
		35.192	4.23	.85	10.40	4.73		
		34.774	4.32	1.29	17.70	9.66		
		34.607	4.39	1.59	22.50	18.44		
		34.638	4.20	1.80	24.90	29.79		
		34.503	3.93	2.21	27.80	51.79		

Campagne : HYDROTHON 03			Station : 93			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
19.45 S	164.30 E	9/ 7/79	2.23	170/	10nd	/	/	/
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	24.51	23.9	21.8	1020.0		2	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.51							
20	24.54							
40	24.58							
60	24.20							
80	23.89							
100	23.24							
120	21.95							
140	21.28							
160	20.67							
180	20.25							
200	19.90							
220	19.39							
240	18.97							
260	18.21							
280	17.73							
300	17.05							
324	16.65							
346	15.81							

Campagne : HYDROTHON 03			Station : 94			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D// Vent	H/D/P Houle			
19.12 S	164.30 E	9/ 7/79		170/12nd	.7/150/			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	24.09	22.0	19.0	1019.5		4	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLRI	
0	24.09	35.443	4.85	.24	.33		.16	
20	24.07	35.446	4.78	.24	.32			
40	24.13	35.446	4.84	.24	.21		.17	
60	24.09	35.450	4.65	.24	.20		.18	
80	24.13	35.555	4.80	.24	.18		.31	
100	23.14	35.737	4.53	.27	.43		.36	
120	22.13	35.747	4.25	.30	1.38		.20	
140	21.30	35.721	4.33	.42	1.80		.14	
160	20.96	35.708	4.26	.45	2.14		.14	
180	20.16	35.670	4.15	.51	3.20			
200	19.69	35.628	4.09	.70	4.60		.10	
220	19.29	35.602	4.07	.73	4.70			
230	19.01	35.582	4.00	.73	4.70			
240	18.51	35.585	4.07	.73	5.00			
250	17.98	35.486	3.86	.88	6.30			
260	17.36	35.430	4.07	.91	6.90			
287	16.80	35.370	4.00	.94	8.10			
300	16.77	35.443	4.26	.79	5.20			
321	16.43	35.445	4.39	.79	5.20			
344	15.64	35.351	4.42	.88	6.10			
434	12.44	35.020	4.30	1.34	10.20			
610	7.55	34.593	4.40	2.13	23.80			
796	5.73	34.484	4.30	2.41	30.20			
904	4.59	34.476	4.16	2.74	35.20			

Campagne : HYDROTHON 03			Station : 95			Nb Niveaux : 18		
Latitude	Longitude	Jo/Mo/An	Heure	D// Vent	H/D/P Houle			
18.50 S	164.28 E	9/ 7/79	10.25	180/10nd	1.0/150/ 6			
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	24.04	22.4	17.5	1020.6		3	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLRI	
0	24.04							
20	23.64							
40	23.99							
60	23.94							
80	23.84							
100	22.63							
120	21.66							
140	21.15							
160	20.51							
180	19.92							
200	19.14							
220	18.64							
240	18.01							
258	17.54							
277	16.78							
295	16.35							
314	15.65							
342	14.50							

Campagne : HYDROTHON 03			Station : 96			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
18.27 S	164.30 E	9/ 7/79	15.38	150/	6nd	.5/170/ 6		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	24.26	23.7	20.3	1017.5		4	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	24.26	35.459	4.49	.21	.17	1.14	.25	
20	24.02	35.425	4.59	.24	.17	1.14	.30	
40	24.03	35.431	4.81	.24	.26	1.14	.43	
60	23.99	35.575	4.78	.27	.61	1.58	.48	
80	22.05	35.692	3.96	.36	1.13	1.58	.30	
100	21.55	35.702	4.21	.36	1.57	1.58	.22	
120	21.15	35.691	4.09	.39	1.92	1.67	.19	
140	20.58	35.671	4.17	.45	2.01	1.84	.12	
160	20.07	35.653	4.27	.45	2.40	1.93	.11	
180	19.88	35.640	4.33	.48	2.40	2.02		
200	19.30	35.611	4.32	.48	2.40	1.93	.08	
220	18.99	35.600	4.31	.51	2.40	1.93		
240	18.24	35.553	4.41	.57	2.60	2.11		
260	17.87	35.539	4.38	.57	4.10	2.29		
280	17.06	35.477	4.38	.64	4.90	2.64		
300	16.08	35.375	4.37	.73	4.50	3.08		
325	15.55	35.316	4.25	.85	5.20	3.69		
350	13.78	35.153	4.05	1.00	5.20	6.16		
372	12.90	35.058	3.99	1.15	6.10	7.48		
391	12.57	34.991	4.05	1.22	6.80	8.36		
496	9.39	34.690	4.38	1.61	11.90	13.76		
683	6.20	34.476	4.22	2.13	15.90	26.61		
891	4.54	34.494	3.71	2.47	19.60	48.18		
1084	3.72	34.566	4.03	2.65	22.30	60.84		

Campagne : HYDROTHON 03			Station : 97			Nb Niveaux : 13		
Latitude	Longitude	Jo/Mo/An	Heure	D/Y	Vent	H/D/P Houle		
17.37 S	164.27 E	9/ 7/79	22.37	150/	8nd	/ /		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	25.18	23.0	18.1	1019.4		3	+11	
Z	T	S	O2	P04	N03	SI03	CHLAI	
0	25.18	35.284	4.77	.24		1.21	.31	
20	25.17	35.286	6.03	.24		1.21	.33	
40	25.24	35.301	3.69	.24		1.21	.37	
60	25.22	35.315	4.32	.24		1.21	.37	
80	24.31	35.639	3.39	.27		1.38	.45	
100	22.95	35.721	3.94	.34		1.64	.27	
120	22.15	35.720	4.11	.37		1.64	.19	
140	21.34	35.687	3.98	.49		1.90	.14	
160	20.91	35.670	4.02	.49		1.90	.12	
180	20.45	35.649	3.69	.55		2.16		
200	19.82	35.609	3.76	.55		2.34	.12	
220	18.89	35.544	4.09	.65		3.20		
240	17.98	35.461	4.04	.62		3.12		

Campagne : HYDROTHON 03			Station : 98			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.16 S	165.06 E	10/7/79	9.50	160/	9nd	.2/150/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	J Hyg	Neb	D Gmt	
2	24.13	21.6	17.0	1018.0		1	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAl	
0	24.13	35.266		.27	.18	1.21	.15	
20	25.21	35.265	4.77	.27	.18	1.21	.20	
40	25.27	35.270	4.65	.27	.18	1.21	.20	
60	25.01	35.498	4.77	.27	.45	1.21	.36	
80	24.25	35.712	4.64	.31	.63	1.38	.53	
100	23.45	35.738	4.53	.34	1.00	1.47	.35	
120	22.82	35.764	3.91	.40	1.53	1.64	.20	
140	22.00	35.729	4.10	.43	1.89	1.64		
160	21.53	35.181	4.18	.43	2.10	1.73	.13	
180	20.86	35.686	4.19	.49	2.20	1.73		
200	19.85	35.625	4.14	.80	2.70	1.99	.22	
220	19.00	35.574	4.13	.59	3.20	2.34		
240	18.01	35.490	4.05	.68	4.10	3.03		
260	17.47	35.449	4.07	.71	4.60	3.38		
280	16.66	35.361	3.99	.80	5.90			
300	15.82	35.280	4.01	.83	6.80			
325	15.27	35.224	4.09	.90	6.70			
349	14.21	35.137	4.02	.99	7.50			
375	13.17	35.069	4.18	1.05	8.50			
398	12.48	34.963	4.18	1.24	9.90			
499	9.43	34.677	4.35	1.61	15.00			
690	5.80	34.690	4.20	1.86	17.40			
900	4.56	34.790	4.11	1.67	15.50			
1086	3.79	34.777	3.90	2.04	18.80			

Campagne : HYDROTHON 03			Station : 99			Nb Niveaux : 24		
Latitude	Longitude	Jo/Mo/An	Heure	D/V	Vent	H/D/P	Houle	
18.57 S	165.44 E	10/7/79	14.40	130/	6nd	.5/110/7		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	J Hyg	Neb	D Gmt	
2	25.13	23.8	20.6	1016.5		2	+11	
Z	T	S	O2	PO4	NO3	SI03	CHLAl	
0	25.13	35.256	4.85	.24		1.35	.33	
20	25.00	35.248		.24		1.35	.31	
40	25.03	35.245	5.06	.24		1.35	.44	
60	24.99	35.253	4.89	.24		1.35	.41	
80	24.50	35.529	4.81	.27		1.35	.51	
100	24.14	35.692	4.58	.27		1.80	.34	
120	23.15	35.754	4.30	.30		1.62	.17	
140	22.32	35.738	4.38	.30		1.53		
160	21.42	35.709	4.32	.33		1.71	.10	
180		35.678	4.23	.36		1.71		
200	21.07	35.645	4.40	.40		1.89	.09	
220	19.49	35.608	3.65	.42		2.30		
240	18.77	35.559	4.25	.45		2.30		
260	17.87	35.490	4.24	.45		2.50		
280	16.96	35.405	4.44	.54		3.20		
300	16.29	35.347	4.45	.60		3.50		
325	15.34	35.255		.63		4.10		
349	14.46	35.191	4.46	.72		4.60		
375	13.59	35.117	4.37	.72		5.00		
397	12.84	35.025	4.40	.87		5.90		
498	9.54	34.685	4.36	1.35		9.90		
683	6.36	34.440	4.39	1.95		27.00		
895	4.71	34.493	4.01	2.30		28.00		
1078	3.92	34.526	3.80	2.50		45.00		

Campagne : HYDROTHON 03			Station : 100			Nb Niveaux : 16		
Latitude	Longitude	Jo/Mo/An	Heure	D°/'	Vent	H/D/P	Houle	
22.16 S	167.16 E	13/ 7/79	7.50	160/12nd		.2/180/		
E Mer	T Mer	T A Sec	T A Hum	P Atmo	D Hyg	Neb	D Gmt	
2	22.60	21.8	15.0	1024.5		2	+11	
Z	T	S	O2	P04	N03	SI03	CHL01	
0	22.60	35.518	4.97	.24		1.17	.25	
20	22.79	35.504	4.99	.24		1.17		
40	22.73	35.500	4.81	.24		1.10	.28	
60	22.76	35.533	4.86	.24		1.10	.29	
80	22.06	35.630	4.94	.24		1.17	.42	
100	21.90	35.646	4.92	.24		1.35	.43	
120	21.59	35.658	4.68	.24		1.44	.30	
140	21.47	35.662	4.67	.27		1.53		
160	21.30	35.659	3.57	.30		1.53		
180	20.33	35.631	4.53	.33		2.00		
200	19.68	35.618	4.41	.30		2.00		
220	19.40	35.617	4.18	.27		2.00		
240	18.82	35.587	4.23	.27		1.90		
260	18.19	35.545	4.27	.30		2.25		
280	17.40	35.492	4.59	.33		2.52		
300	16.55	35.424	4.56	.66		3.70		