

**VERSLAGEN EN TECHNISCHE GEGEVENS**  
**Instituut voor Taxonomische Zoölogie (Zoölogisch Museum)**  
**Universiteit van Amsterdam**

**No. 3**

**Samplelist of the Cicar (Cooperative Investigations in  
the Caribbean and Adjacent Regions) cruises 1970 - 1972**

**S. van der Spoel & M.J. Koperdraat**

**20 February 1974**

Samplelist of the Cicar (Cooperative Investigations in the Caribbean and Adjacent Regions) cruises 1970 - 1972

S. van der Spoel & M.J. Koperdraat

INTRODUCTION

The Royal Dutch Navy participated in the cruises of the Cooperative Investigations in the Caribbean and Adjacent Regions (Cicar) from 1970 up to 1973 with H.Nl.M.S. "Luymes" and made 39 cruises. For general information on these cruises and preliminary results one is referred to the titles in the list of literature marked with a asterisk. Plankton collecting was executed by the ornithologists Drs. S. van Halewijn and Drs. D.M.C. Poppe and when ornithologists were not aboard the crew of the researchship did valuable work by continuing sampling. As plankton samples could in many cases not be correlated with the official Cicar Stations new numbers are added when possible. Confusion of the numbers is impossible as the new numbers are single numbers, the original ones are double numbers separated by a hyphen.

The stationlist is divided into two parts, one dealing with the net samples and one with the pump samples. To correlate the net samples with the pump samples, the list of pump samples (numbers starting with a "P") should be consulted wich gives the correlating net samples also.

Shiptime and assistance by the crew was made available by the Royal Dutch Navy; material for the nets and pump were available by grants of the Netherlands Organization for the Advancement of Pure Research (Z.W.O.).

The nets used were open plankton nets of the Plymouth type, with 0.056 mm diameter meshes. All material was fixed in 4% formaline-seawater solution. During the cruises 1-9 no plankton sampling was executed. Net samples were taken during cruise 10-19 at depth varying between 0 and 6 meter; only during cruise 13 and 14 also samples at 10 and 18 meter were collected; during cruise 21 and 22 some additional net samples were taken.

Sorting of the net samples is done by the second author.

The pump used for sampling of smaller plankton was a 3 pk, Stork/Pelger vacuum pump with an output capacity of 300 liter/min. To collect the samples from the outflow of the pump plankton silk with 0.056 mm mesh diameter was applied. Pump samples were taken during the cruises 21-23, 27-29, 31-35 and 37-38.

All material collected is preserved in the Institute of Taxonomic Zoology of the University of Amsterdam; all non planktonic organisms collected during Cicar are in principle preserved in the Rijks Museum van Natuurlijke Historie at Leiden.

As this plankton collecting program was part of an international project it seems correct to mention that during and after the cruises there was no effective coordination with regard to the plankton investigations. The only coordination was on national level, due to contacts through the plankton research group formed in the working group for systematics and ecology (S.E.Z.) incorporated in BION.

LIST OF NET SAMPLES

Stat.	Cicar Stat.	Position		Date 1970	Time G.M.T. Duration	Depth of net (C) ; of bottom (B)	Sal. ‰	Temperature °C		Clouds	
		north	west					water	air	Amount (N)	Type (C)
1	10-001	12°06.3' 12°07.7'	68°25.6' 68°29.4'	07-04	14.50 100 min.	C B 1000		26.6	26.8	6	8
2	10-002	12°32.1'	70°04.5'	08-04	240 min.	C 4 B 30		25.6	27.7	5	0
3	11-003	12°29'	70°07'	23-04	20 min.	C 4 B 70		26.1	26.8	6	8
4	11-004	12°35.5'	70°09.2'	23-04	20 min.	C 4 B 250		26.2	26.8	5	8
5	11-005	12°39.5'	70°08.3'	23-04	10 min.	C 4 B 300		26.1	26.0	6	0
5A	11-006	12°36'	69°54'	23-04	14.20-14.30 10 min.	C B		26.1	26.9	7	0
6	11-007	12°29.0'	69°50.3'	23-04	19.10 20 min.	C 4 B		26.2	26.7	7	0
7	11-008	12°24.6'	69°50.2'	23-04	15 min.	C 4 B		26.4	26.5	7	0
8	11-009	12°21.5'	69°54.0'	23-04	21.25 20 min.	C B 180		26.1	26.4	7	0
9	12 <sup>A</sup> 001	12°10.7'	69°01.4'	11-05	21.10 35 min.	C 4 B 220		27.1	28.0	7	2
10	12 <sup>A</sup> 002 <sup>A&amp;B</sup>	12°13.2' 12°13.4'	69°05.7' 69°05.8'	11-05	19.00-19.20 20 min.	C 4 B 60					
11	12 <sup>A</sup> 003	12°36.6'	70°03.6'	11-05	12.50-15.50 180 min.	C 4 B 18		26.6	27.6	7	0
12	12 <sup>B</sup> 002	12°18.2'	68°28.8'	19-05 20-05	23.05-00.15 72 min.	C 4 B 1100		27.8	27.6	1	8
13	12 <sup>B</sup> 003	12°13.7'	68°25.8'	20-05	02.20-03.20 60 min.	C 4 B 1200					
14	12 <sup>B</sup> 005	12°11.2' 12°11.0'	68°45.9' 68°46.7'	20-05	06.30-07.52 20 min.	C 4 B 1100					
15	12 <sup>B</sup> 006	12°16.8' 12°17.2'	68°50.7' 68°51.4'	20-05	08.15-09.30 75 min.	C 4 B 1600					
16	12 <sup>B</sup> 008 <sup>A</sup>	12°24.9' 12°24.8'	69°06.6' 69°08.0'	20-05 21-05	23.10-00.30 60 min.	C 4 B 650		27.6	27.4	1	0
17	12 <sup>B</sup> 009	12°21.8' 12°21.7'	69°01.7' 69°02.7'	21-05	03.25-04.30 15 min.	C 4 B 350					
18	12 <sup>B</sup> 010	12°17.7' 12°17.7'	68°55.8' 68°56.6'	21-05	04.35-05.30 40 min.	C 4 B 1400					
19	12 <sup>B</sup> 011	12°23.5' 12°23.7'	68°57.0' 68°57.7'	21-05	06.20-07.10 35 min.	C 4 B 850					
19A	12 <sup>B</sup> 012	12°26.2' 12°26.4'	69°01.6' 69°03.9'	21-05	08.30-10.30 105 min.	C 4 B 1500					
19B	12 <sup>B</sup> 014	12°16.9' 12°16.9'	69°12.9' 69°13.5'	21-05 22-05	23.10-00.00 50 min.	C 4 B 1192		27.5	27.7	4	0
20	12 <sup>B</sup> 015	12°22.3' 12°22.0'	69°14.1' 69°15.0'	22-05	01.00 60 min.	C 4 B 1200					
21	12 <sup>B</sup> 016	12°24.2' 12°23.4'	69°19.2' 69°20.5'	22-05	03.05-04.50 85 min.	C 4 B 1200					
22	12 <sup>B</sup> 017	12°26.9' 12°26.8'	69°12.0' 69°13.5'	22-05	06.00-06.50 4 min.	C 4 B 1200		27.4	27.4	4	8
23	12 <sup>B</sup> 018	12°29.3' 12°30.4'	69°09.0' 69°12.0'	22-05	08.00-09.45 70 min.	C 4 B 1600					
24	12 <sup>B</sup> 020	12°10.6' 12°10.4'	68°23.5' 68°24.1'	22-05 23-05	23.20-00.45 60 min.	C 4 B 900		28.0	27.8	1	8

25	12 <sup>B</sup> 021	12°05.6' 12°05.8'	68°23.4' 68°22.8'	23-05	01.45-02.40 50 min.	C 4 B 770				
26	12 <sup>B</sup> 022	12°01.1' 12°01.1'	68°19.5' 68°21.1'	23-05	03.45-04.55 35 min.	C 4 B 800				
27	12 <sup>B</sup> 024	12°03.4' 12°03.7'	68°25.5' 68°26.9'	26-05	00.25-01.30 60 min.	C 4 B 1364	28.0	28.0	2	8
28	12 <sup>B</sup> 025	12°03.2' 12°02.9'	68°32.3' 68°33.2'	26-05	02.10-03.05 45 min.	C 4 B 1500				
29	12 <sup>B</sup> 026	12°07.0' 12°06.6'	68°34.5' 68°36.1'	26-05	03.35-05.15 95 min.	C 4 B 1500				
30	12 <sup>B</sup> 027	12°08.5' 12°08.5'	68°40.1' 68°41.1'	26-05	05.50-06.45 40 min.	C 4 B 1450	27.6	27.6	2	8
31	12 <sup>B</sup> 029	12°21.4' 12°21.7'	68°13.3' 68°15.7'	27-05	02.45-04.15 90 min.	C 4 B 1700-2000				
32	12 <sup>B</sup> 030	12°13.5' 12°13.1'	68°30.6' 68°30.6'	27-05	06.25-07.35 55 min.	C 4 B 1800				
33	12 <sup>B</sup> 031	12°10.9'	68°34.6'	27-05	08.10-09.10 55 min.	C 4 B 1480				
34	13-001	12°02.0' 12°02.0'	68°51.2' 68°51.7'	11-06	00.20-01.25 40 min.	C 4 B 760	27.5	27.3	7	2
35	13-002	11°59.1' 11°59.4'	68°53.0' 68°53.9'	11-06	02.05-02.47 35 min.	C 4 B 800				
36	13-003	12°00.5' 12°00.7'	68°56.6' 68°57.0'	11-06	03.15-04.00 40 min.	C 4 B 800				
37	13-004	12°01.4' 12°01.8'	68°58.5' 68°59.5'	11-06	04.35-05.30 45 min.	C 4 B 740	27.4	27.0	3	8
38	13-005	11°59.7' 12°00.2'	68°54.9' 68°56.2'	11-06	06.50-07.35 35 min.	C 4 B 800				
39	13-016	12°03.3' 12°03.3'	68°52.1' 68°52.8'	13-06	04.45-05.15 20 min.	C 4 B 502				
40	13-017	12°02.5' 12°02.4'	68°53.9' 68°54.7'	13-06	05.55-06.35 30 min.	C 4 B 724	27.4	27.2	4	8
41	13-018	12°02.0' 12°01.3'	68°52.7' 68°53.6'	13-06	08.00-08.45 35 min.	C 4 B 780				
42	13-020	11°57.8' 11°57.8'	68°39.9' 68°40.2'	13-06	13.50-14.15 13 min.	C 2 B 500	27.6	27.2	7	8
43	13-021	11°56.9' 11°56.8'	68°37.3' 68°37.5'	13-06	14.35-14.46 10 min.	C 3 B 500				
44	13-022	12°00.1' 12°00.1'	68°37.2' 68°37.4'	13-06	15.14-15.35 20 min.	C B 600				
44 <sup>A</sup>	13-027	12°11.6'	68°56.1'	15-06	22.30-22.37 7 min.	C B 65				
45	13-028	12°14.9' 12°14.1'	68°55.8' 68°56.9'	15-06 16-06	23.00-00.25 75 min.	C 4 B 700-900	27.6	27.4	6	0
46	13-029	12°13.2' 12°13.2'	68°52.5' 68°53.5'	16-06	01.40-02.15 25 min.	C 4 B 700-800				
47	13-030	12°12.9' 12°13.1'	68°49.9' 68°51.2'	16-06	02.55-03.50 55 min.	C 4 B 820				
48	13-031	12°11.3' 12°11.8'	68°47.6' 68°48.9'	16-06	06.00-06.50 45 min.	C 4 B 890	27.6	27.2	5	8
49	13-032	12°15.5' 12°15.6'	68°41.9' 68°43.2'	16-06	09.00-10.30 90 min.	C 4 B 1400				

50	13-036	12°03.3' 12°03.7'	68°40.5' 68°41.3'	17-06	01.05-01.40 35 min.	C 4 B 720				
51	13-043	12°23.2' 11°24.0'	69°52.3' 69°54.6'	18-08	07.00-07.44 30 min.	C 4 B 260				
52	13-048	12°36.53'	70°03.40'	18-06	12.15-14.15 93 min.	C 4 B 18	27.0	27.4	3	8
53	13-052/053	12°06.8' 12°06.8'	68°18.0' 68°19.6'	19-06 20-06	22.45-00.45 120 min.	C 2-6-10-18 B 100-260	27.6	27.2	4	0
54	13-054	12°06.7' 12°06.7'	68°19.8' 68°21.7'	20-06	01.00-03.00 120 min.	C 2-6-10-18 B 420-588				
55	13-056/057	12°07.0' 12°08.0'	68°22.9' 68°24.8'	20-06	04.00-06.00 120 min.	C 2-6-10-18 B 580-760				
56	13	12°08.2' 12°09.2'	68°25.2' 68°27.2'	20-06	06.15-08.15 120 min.	C 2-6-10-18 B				
57	13	12°09.0' 12°09.5'	68°27.2' 68°29.6'	20-06	08.30-10.15 105 min.	C 2-6-10-18 B				
58	13-059/063	12°01.5' 12°01.5'	68°15.9' 68°18.0'	22-06 23-06	22.45-00.45 120 min.	C 2-6-10-18 B 280-415	27.4	27.3	2	0
59	13-064/065	12°01.5' 12°01.5'	68°18.6' 68°21.5'	23-06	01.15-03.15 120 min.	C 2-6-10-18 B 696-960				
60	13-066	12°01.6' 12°02.3'	68°22.3' 68°25.0'	23-06	03.45-05.45 120 min.	C 2-6-10-18 B 960-1284	27.3	27.0	6	8
61	13-067	12°07.7' 12°03.5'	68°26.0' 68°27.5'	23-06	06.15-08.15 120 min.	C 2-6-10-18 B 1284-1444				
62	13-69/71	12°08.8' 12°09.3'	69°00.7' 69°02.2'	24-06	05.15-07.15 120 min.	C 2-7-15-27 B 220-520	27.4	27.0	4	9
63	13-072	12°09.4' 12°09.6'	69°02.5' 69°03.9'	24-06	07.45-09.15 90 min.	C 2-7-15 B 724				
64	13-074/076	12°21.0' 12°21.6'	69°00.6' 69°02.1'	25-06 26-06	23.10-01.10 120 min.	C 2-6 B 320-340	26.9	27.0	6	8
65	13-078/079	12°19.1' 12°20.0'	69°00.8' 69°02.4'	26-06	02.34-04.15 90 min.	C 2-6 B 380-410				
66	13-080/085	12°18.4' 12°18.7'	69°09.5' 69°11.0'	26-06	06.35-08.45 130 min.	C 2-6 B 70-835	27.2	27.0	5	8
67	13-088/093	12°15.7' 12°15.6'	69°07.7' 69°09.9'	26-06 27-06	23.00-01.20 140 min.	C 2-6 B 108-720	27.2	27.1	4	0
68	13-094/095	12°15.6' 12°15.6'	69°10.0' 69°11.9'	27-06	01.35-03.25 110 min.	C 2-6-10 B 800-1080				
69	13	12°15.6' 12°16.0'	69°12.0' 69°14.5'	27-06	03.45-05.45 120 min.	C 2-6-10 B				
70	13	12°16.0' 12°14.2'	69°14.8' 69°16.8'	27-06	06.15-08.15 120 min.	C 2-6-10 B				
71	13	12°15.7' 12°15.6'	69°07.7' 69°09.9'	27-06 28-06	23.00-01.20 140 min.	C 10 B				
72	13-096/098	12°11.4' 12°10.7'	68°18.3' 68°19.6'	29-06 30-06	23.45-01.45 120 min.	C 2-6-10 B 62-380	27.4	27.0	3	0
73	13-099/100	12°10.5' 12°10.2'	68°19.8' 68°21.6'	30-06	02.00-04.00 120 min.	C 2-6-10 B 400-440				
74	13-101	12°10.1' 12°10.2'	68°21.9' 68°23.7'	30-06	04.15-06.15 120 min.	C 2-6-10 B 620	27.4	27.0	2	8
75	13-102	12°10.3' 12°10.8'	68°23.9' 68°26.6'	30-06	06.30-08.30 120 min.	C 2-6-10 B 890				

76	13	12°10.9' 12°11.5'	68°26.8' 68°28.6'	30-06	08.45	C 2-6-10 B				
77	14-001/003	12°24.5' 12°24.5'	69°05.0' 69°06.9'	09-07	00.50-02.50 120 min.	C 4 B 848-620				
78	14-004/006	12°24.5' 12°25.0'	69°07.0' 69°09.3'	09-07	03.00-05.00 120 min.	C 4 B 584-452				
79	14-007/008	12°25.3' 12°25.6'	69°09.5' 69°11.7'	09-07	05.15-07.15 120 min.	C 4 B 857-1005	27.0	26.6	3	8
80	14	12°25.6' 12°25.9'	69°12.0' 69°14.5'	09-07	07.20-09.20 120 min.	C 4 B				
81	14-009	12°10.5' 12°10.7'	69°02.3' 69°02.7'	10-07	01.55-02.20 25 min.	C 4 B 470				
82	14-010/011	12°08.9' 12°10.2'	69°01.9' 69°03.9'	10-07	03.10-05.15 125 min.	C 4 B 540-660				
83	14-012/013	12°10.3' 12°11.5'	69°04.0' 69°06.1'	10-07	05.20-07.20 120 min.	C 4 B 610	27.2	26.9	2	8
84	14-014/016	12°23.3' 12°23.7'	69°05.5' 69°07.9'	11-07	00.15-02.15 120 min.	C 4 B 484-400	27.0	27.1	6	2
85	14-019/020	12°25.2' 12°25.0'	69°05.0' 69°07.3'	11-07	04.30-06.30 120 min.	C 4 B 1012-736	27.0	25.8	3	9
86	14-021/023	12°25.0' 12°25.4'	69°07.0' 69°09.6'	11-07	06.35-08.35 120 min.	C 4 B 650-815				
87	14-024	12°25.3' 12°25.1'	69°10.3' 69°11.7'	11-07	09.00-10.10 70 min.	C 4 B 960				
88	14-025/028	12°06.7' 12°07.5'	68°58.4' 69°01.4'	13-07 14-07	23.30-01.30 120 min.	C 4 B 430-740	27.4	27.0	3	0
89	14-030/033	12°12.2' 12°12.4'	68°21.5' 68°23.9'	15-07	01.20-03.20 120 min.	C 2 B 352-530				
90	14-034	12°12.4' 12°12.8'	68°24.0' 68°26.5'	15-07	03.30-05.30	C 2 B 594				
91	14	12°12.9' 12°13.4'	68°26.6' 68°29.1'	15-07	05.35-07.35 120 min.	C 4 B				
92	14-035/039	12°04.3' 12°03.5'	68°17.2' 68°19.1'	15-07 16-07	23.00-01.00 120 min.	C 4 B 44-380	27.1	27.2	7	8
93	14-040	12°03.4' 12°03.9'	68°19.3' 68°20.4'	16-07	01.05-01.50 45 min.	C 4 B 520-563				
94	14-041/042	11°59.4' 11°59.4'	68°13.3' 68°15.6'	16-07	03.30-05.30 120 min.	C 4 B 485-450				
95	14-043/045	11°59.4' 11°59.5'	68°15.7' 68°18.8'	16-07	05.35-07.35 120 min.	C 4 B 560-840	27.1	26.9	5	9
96	14-045/046	11°59.5' 11°59.9'	68°22.3' 68°18.9'	16-07	07.40-09.40 120 min.	C 4 B 840-1040				
97	14-054/057	12°01.8' 12°02.2'	67°42.0' 67°42.7'	17-07	19.00-20.27 87 min.	C 2-6-10-15 B 390-648	27.3	27.2	2	8
98	14-070	12°04.4' 12°05.7'	68°32.3' 68°33.1'	21-07	07.15-08.27 65 min.	C 4 B 1520				
99	15 <sup>D</sup> 001	07°09.8' 07°11.5'	53°37.2' 53°33.2'	23-08 24-08	22.20-00.35 75 min.	C 1-5 B 130-104	28.8	27.9	2	8
100	15 <sup>D</sup> 002	07°07.1' 07°07.8'	53°36.0' 53°37.6'	24-08	02.10-03.55 45 min.	C 1-5 B 93				
101	15 <sup>D</sup> 005	06°35.8' 06°36.8'	53°32.8' 53°34.3'	24-08	14.15-16.26 131 min.	C 1-5 B 44	27.8	27.6	3	9



102	15 <sup>D</sup> 006	06°31.9' 06°32.8'	53°35.9' 53°37.3'	24-08	18.00-18.40 40 min.	C 1-5 B 44	27.9	27.5	2	9
103	15 <sup>D</sup> 007	06°21.0' 06°21.7'	53°40.5' 53°41.8'	24-08	20.20-20.55 35 min.	C 1-5 B 33	27.5	27.4	6	0
104	15 <sup>D</sup> 008	06°15.7'	53°42.0'	24-08 25-08	23.45-00.52 67 min.	C 1-5 B 32	27.2	27.2	3	8
105	15 <sup>D</sup> 011	06°03.2' 06°04.8'	53°41.2' 53°45.6'	25-08	05.31-08.20 109 min.	C 1-5 B 27	27.1	27.0	2	8
106	15 <sup>D</sup> 012	05°53.6'	53°42.4'	25-08	10.30-12.00 90 min.	C 1-5 B 16				
107	15 <sup>E</sup> 013	06°41.0' 06°43.4'	52°46.2' 52°48.8'	25-08	20.35-22.35 120 min.	C 1-5 B 131	27.8	27.5	6	3
108	15 <sup>E</sup> 014	06°43.0' 06°45.4'	52°44.2' 52°45.6'	25-08 26-08	23.50-02.10 140 min.	C 1-5 B 76	27.1	27.0	4	9
109	15 <sup>E</sup> 015	06°36.0' 06°37.4'	52°49.4' 52°51.2'	26-08	03.15-04.50 95 min.	C 1-5 B 72				
110	15 <sup>E</sup> 016	06°17.9' 06°19.0'	52°57.2' 52°58.4'	26-08	07.20-08.15 55 min.	C 1-5 B 56				
111	15 <sup>E</sup> 019	06°13.0' 06°19.7'	53°05.8' 53°07.5'	26-08	12.20-13.50 90 min.	C 1-5 B 42	27.5	27.3	2	8
112	15 <sup>E</sup> 020	06°08.8' 06°08.8'	53°08.8' 53°08.8'	26-08	15.06-15.58 52 min.	C 1-5 B 39	27.5	27.5	2	9
113	15 <sup>E</sup> 021	06°03.0' 06°02.8'	53°12.3' 53°13.3'	26-08	17.00-19.00 120 min.	C 1-5 B 42	27.1	27.0	3	0
114	15 <sup>E</sup> 023	05°49.5' 05°49.0'	53°12.9' 53°13.6'	26-08	21.55-22.40 45 min.	C 1-5 B 29	26.9	27.1	6	9
115	15 <sup>E</sup> 025	05°42.4' 05°42.8'	53°14.0' 53°15.7'	26-08	23.51-01.15 84 min.	C 1-5 B 25	26.7	26.8	1	0
116	15 <sup>G</sup> 032	07°01.8' 07°02.2'	53°53.0' 53°55.7'	27-08	15.10-16.30 80 min.	C 1-5 B 79	28.6	27.8	5	0
117	15 <sup>G</sup> 034	07°39.0' 07°40.3'	53°51.0' 53°54.9'	27-08	20.38-22.05 87 min.	C 1-5 B 500	28.9	28.0	7	0
118	15 <sup>G</sup> 035	07°23.5' 07°23.7'	53°53.6' 53°55.8'	28-08	00.05-01.20 75 min.	C 1-5 B 200	28.6	27.8	3	8
119	15 <sup>G</sup> 036	07°20.7' 07°20.8'	53°55.4' 53°57.1'	28-08	02.18-03.13 57 min.	C 1-5 B 160				
120	15 <sup>G</sup> 037	07°19.5' 07°19.6'	53°56.9' 53°58.3'	28-08	03.55-04.35 40 min.	C 1-5 B 130				
121	15 <sup>G</sup> 038	07°17.8' 07°17.8'	53°57.6' 53°58.5'	28-08	05.35-06.05 30 min.	C 1-5 B 100	28.4	27.4	1	8
122	15 <sup>C</sup> 048	07°45.7' 07°46.1'	57°00.9' 57°02.3'	30-08	07.15-08.40 85 min.	C 1-5 B 500				
123	15 <sup>C</sup> 051	07°41.2' 07°41.6'	57°01.3' 57°02.0'	30-08	15.15-16.15 60 min.	C 1-5 B 98	28.8	27.9	5	1
124	15 <sup>C</sup> 063	07°35.6' 07°36.2'	57°04.2' 57°05.6'	31-08	04.00-04.50 50 min.	C 1-5 B 71				
125	15 <sup>C</sup> 065	07°33.8' 07°33.8'	57°05.2' 57°06.0'	31-08	06.30-07.00 30 min.	C 1-5 B 63				
126	15 <sup>C</sup> 068	07°25.8' 07°26.4'	57°08.3' 57°09.9'	31-08	10.15-11.30 75 min.	C 1-5 B 51	27.8	27.8	6	8
127	15 <sup>C</sup> 069	07°20.3' 07°20.8'	57°10.6' 57°11.8'	31-08	12.36-13.30 54 min.	C 1-5 B 46				

128	15 <sup>C</sup> 072	07°05.9' 07°06.2'	57°14.0' 57°15.5'	31-08	17.40-18.45 65 min.	C 1-5 B 32	28.6	27.8	6	8
129	15 <sup>C</sup> 074	06°46.2' 06°46.5'	57°15.8' 57°17.1'	31-08	21.02-21.44 42 min.	C 1-5 B 28	28.5	28.0	4	1
130	15 <sup>C</sup> 075	06°43.5' 06°44.2'	57°16.9' 57°19.0'	31-08 01-09	23.25-00.35 70 min.	C 1-5 B 26	28.5	27.8	3	0
131	15 <sup>C</sup> 076	06°40.6' 06°41.0'	57°17.3' 57°19.0'	01-09	01.40-02.20 40 min.	C 1-5 B 23				
132	15 <sup>B</sup> 080	07°56.1' 07°56.8'	57°11.9' 57°13.1'	01-09	15.45-18.10 145 min.	C 1-5 B 618	28.5	28.0	6	0
133	15 <sup>B</sup> 081	07°51.2' 07°51.8'	57°14.2' 57°15.0'	01-09	18.55-20.15 80 min.	C 1-5 B 120	28.5	28.2	6	0
134	15 <sup>B</sup> 085	07°39.3' 07°39.9'	57°15.5' 57°16.2'	02-09	02.25-03.10 45 min.	C 1-5 B 69				
135	15 <sup>B</sup> 086	07°36.9' 07°37.1'	57°15.4' 57°16.0'	02-09	03.48-04.30	C 1-5 B 64				
136	15 <sup>B</sup> 087	07°34.0'	57°16.0'	02-09	05.10-05.50 40 min.	C 1-5 B 59				
137	15 <sup>B</sup> 092	07°10.3' 07°10.7'	57°17.1' 57°17.9'	02-09	12.30-13.30 60 min.	C 1-5 B 32				
138	15 <sup>B</sup> 093	07°05.8' 07°08.1'	57°27.9' 57°30.0'	02-09	18.40-19.40 60 min.	C 1-5 B 26	29.3	27.8	4	0
139	15 <sup>B</sup> 094	06°56.4' 06°56.2'	57°30.6' 57°31.1'	02-09	21.20-21.55 35 min.	C 1-5 B 26	29.2	27.8	6	9
140	15 <sup>B</sup> 095	06°54.5' 06°54.0'	57°30.9' 57°30.9'	03-09	11.35-12.15 40 min.	C 1-5 B 25	28.9	27.4	6	9
141	15 <sup>B</sup> 096	06°52.3' 06°52.3'	57°31.0' 57°31.0'	03-09	13.00-14.30 90 min.	C 1-5 B 23				
142	15 <sup>B</sup> 099	06°38.6' 06°39.5'	57°33.8' 57°34.5'	03-09	19.10-20.05 55 min.	C 1-5 B 12				
143	15 <sup>A</sup> 100	07°59.8' 08°00.7'	57°26.5' 57°27.1'	04-09	04.45-06.00 75 min.	C 1-5 B 500	28.1	27.6	1	8
144	15 <sup>A</sup> 101	08°00.7' 08°01.3'	57°23.6' 57°24.0'	04-09	14.40-16.35 115 min.	C 1-5 B 500	28.5	28.0	1	9
145	15 <sup>A</sup> 102	07°53.8' 07°54.1'	57°28.9' 57°29.6'	04-09	17.40-18.10 30 min.	C 1-5 B 90	28.3	28.0	2	8
146	15 <sup>A</sup> 107	07°42.8' 07°43.2'	57°30.8' 57°31.2'	05-09	02.10-02.50 40 min.	C 1-5 B 65				
147	15 <sup>A</sup> 109	07°35.4' 07°35.8'	57°31.5' 57°32.1'	05-09	04.55-05.20 25 min.	C 1-5 B 54				
147 <sup>A</sup>	15 <sup>A</sup> 110	07°29.7' 07°30.0'	57°34.7' 57°35.1'	05-09	06.10-06.35 25 min.	C 1-5 B 47	28.2	27.4	6	0
148	15 <sup>A</sup> 111	07°26.1'	57°35.6'	05-09	07.15-12.55 280 min.	C 1-5 B 44	28.3	28.2	6	8
149	15 <sup>A</sup> 112	07°24.6'	57°36.8'	05-09	14.20-14.48 28 min.	C 1-5 B 40				
150	15 <sup>A</sup> 113	07°22.3' 07°22.8'	57°36.8' 57°37.2'	05-09	15.25-16.10 45 min.	C 1-5 B 32	28.5	28.0	5	8
151	15 <sup>A</sup> 114	06°48.8'	57°48.9'	07-09	09.47-10.15 28 min.	C 1-5 B 6				
152	15 <sup>A</sup> 115	06°50.2' 06°51.0'	57°49.0' 57°50.5'	07-09	10.55-11.55 60 min.	C 1-5 B 10	28.6	27.8	3	8
153	15 <sup>A</sup> 119	07°01.1' 07°01.6'	57°47.0' 57°47.2'	07-09	16.00-17.00 60 min.	C 1-5 B 23	28.9	27.8	5	8

154	15 <sup>A</sup> 121	07°13.0'	57°41.2'	07-09	20.38-20.55 17 min.	C 1-5 B 25	28.3	27.4	1	8
155	15 <sup>A</sup> 123	07°22.9' 07°22.9'	57°38.5' 57°39.0'	07-09	22.02-22.45 43 min.	C 1-5 B 26	28.0	27.6	1	9
156	16/17-001	06°13.5'	55°20.7'	24-09	15.20-17.30 130 min.	C 2 B 15	35.3	26.6		
157	16/17-002	06°15.6'	54°39.6'	24-09	21.30-22.30 60 min.	C 2 B 13		27.2		
158	16/17-006	05°10.1' 05°11.9'	52°18.9' 52°20.9'	25-09	20.56-22.52	C 2 B 23	29.8	28.2		
159	16/17-007	04°46.1' 04°47.7'	51°39.9' 51°42.2'	26-09	04.10-04.45 35 min.	C 2 B 23	32.5	27.4		
160	16/17-008 <sup>A</sup>	04°52.0'	51°41.0'	26-09	09.10-13.00 230 min.	C 2 B 42	29.9	27.4		
160 <sup>A</sup>	16/17-008 <sup>B</sup>	04°52.0'	51°39.2'	26-09	14.30-15.30 60 min.	C 1 B 42	26.9	28.1		
161	16/17-016	06°43.9' 06°28.2'	50°27.1' 50°38.2'	29-09	06.15-16.30 615 min.	C 2 B 3910-3800	36.0	27.8	28.6	
162	16/17-019	07°42.2' 07°43.9'	52°03.5' 52°03.9'	30-09	19.00-22.00 180 min.	C 2 B 3360	34.2	29.0		
163	16/17-020	07°21.2' 07°26.1'	52°16.9' 52°22.6'	01-10	01.40-06.05 265 min.	C 2 B 2380	32.5	27.9	28.2	
164	16/17-023	06°27.1' 06°30.3'	52°43.0' 52°45.8'	01-10	20.30-22.03	C B	34.0	28.4		
165	16/17-026	06°20. 06°26.	52°52. 53°00.	02-10	14.13-21.20 413 min.	C 3 B 64-58		27.8		
166	16/17-026	06°32' 06°37'	53°07' 53°14'	02-10 03-10	21.20-01.10 230 min.	C 3 B 64-58	35.0	27.8		
166A	16/17-026	06°37' 06°43'	53°14' 53°21'	03-10	01.10-08.10 480 min.	C 3 B 64-58		27.2		
167	16/17-029	07°37.0' 07°39.2'	53°46.2' 53°48.0'	03-10	19.55-22.00 125 min.	C 3 B 520	35.7	27.5		
168	16/17-032	09°36.1' 09°45.8'	52°57.6' 52°50.4'	04-10 05-10	19.30-04.35 545 min.	C 2 B 4750	34.9	27.8		
169	16/17-035	07°44.8' 07°47.2'	52°50.0' 52°51.1'	05-10	14.50-16.10 80 min.	C 2 B 1266	32.1	28.5		
170	16/17-036	07°39.0' 07°41.2'	52°50.9' 52°51.3'	05-10	17.22-18.35	C 2 B 1250	32.5	28.6		
171	16/17-037	07°16.1' 07°19.6'	52°52.2' 52°52.8'	05-10	21.35-22.40 65 min.	C 2 B 800-875	32.1	26.8	27.5	
172	16/17-039	06°05.2'	53°25.9'	06-10	09.00-10.00 60 min.	C 2 B 34	35.95	26.9	27.5	
173	16/17-041	07°59.5' 07°59.7'	55°13.6' 55°14.6'	07-10	09.30-10.25 55 min.	C 2 B 2408	35.6	27.5		
174	16/17-063	04°48.6'	51°42.9'	12-10 13-10	01.00-09.00 480 min.	C 2 B 27	{30.7 {33.2			
175	16/17	06°26' 06°32'	53°00' 53°07'	14-10	18.20-21.20 180 min.	C 3 B	{33.3 {35.0	{28.4 {28.0		
176	16/17-072	06°35.3'	55°15.3'	22-10	21.36-23.59	C B 40	35.8	27.8		
177	16/17-073	06°14.4' 06°14.7'	55°21.8' 55°22.2'	23-10	02.15-02.45 30 min.	C B 16	35.8	27.8		
178	16/17-074	06°18.0' 06°18.1'	54°44.0' 54°44.5'	24-10	07.40-08.22	C B 16	35.7	27.6		

179	16/17-082	05°29.0' 05°31.0'	52°13.5' 52°14.6'	27-10	04.50-05.40 50 min.	C 3 B 48	32.4	28.3			
180	16/17-083	05°39.1' 05°41.0'	52°01.0' 52°02.0'	27-10	08.20-09.20 60 min.	C 2 B 71	30.7	28.4			
181	16/17-084	05°51.9' 05°53.0'	51°44.4' 51°46.1'	27-10	12.40-15.15 155 min.	C 2 B 76	29.4	29.5			
182	16/17-086	06°21.7' 06°23.1'	51°12.5' 51°12.6'	27-10 28-10	23.30-00.15 45 min.	C 3 B 3100	27.4	28.8			
183	16/17-087	06°37.0' 06°38.6'	50°53.7' 50°53.4'	28-10	04.30-05.28	C B	28.6	28.6			
184	16/17-088	06°52.1' 06°53.1'	50°33.4' 50°32.9'	28-10	09.48-10.50 62 min.	C 3 B 4020	31.1	28.4			
185	16/17-090	07°16.4' 07°18.8'	49°56.1' 49°54.8'	28-10	19.30-20.45 75 min.	C 2 B 4190	33.5	30.0			
186	16/17-091	07°29.2' 07°30.1'	49°34.9' 49°34.0'	28-10 29-10	23.35-00.15 40 min.	C 2 B 4240	33.6	28.5			
187	16/17-092	07°40.0' 07°41.1'	49°13.9' 49°13.4'	29-10	02.40-03.30 50 min.	C 2 B 4330	33.2	28.6			
188	16/17-093	07°50.9' 07°51.2'	48°53.8' 48°53.2'	29-10	05.50-06.45 55 min.	C 2 B 4350	32.8	28.4			
189	16/17-094	08°00.9' 08°01.1'	48°34.9' 48°34.5'	29-10	08.52-09.38 46 min.	C 2 B 4400	33.5	28.0			
190	16/17-095	08°12.1' 08°11.6'	48°23.6' 48°23.0'	29-10	11.30-12.25 55 min.	C 3 B 4440					
191	16/17-096	08°25.2' 08°25.1'	48°08.2' 48°10.1'	29-10	14.35-15.25 50 min.	C 1 B 4512		28.7			
192	16/17-098	09°13.5' 09°14.3'	47°35.5' 47°34.5'	29-10	21.55-22.45	C B 4700	34.3	28.0			
193	16/17-102	09°52. 09°52.	59°53.6' 59°54.2'	01-11	15.45-16.40 55 min.	C 3 B 200	35.6	28.1			
194	16/17-103	10°36.9' 10°37.3'	59°56.6' 59°57.2'	01-11	20.45-22.20	C B 924	35.6	28.1			
195	16/17-104	11°28.9' 11°29.9'	59°59.0' 60°00.0'	02-11	02.45-04.03 78 min.	C 3 B 1928	35.5	28.0			
196	16/17-105	12°19.5' 12°20.9'	60°01.8' 60°02.8'	02-11	08.24-09.37	C B 1920	35.7	28.1			
197	16/17-106	11°53.9' 11°53.9	60°53.0' 60°53.5'	02-11	14.55-15.37 52 min.	C B 1844	30.7	28.0			
198	16/17-107	11°40.3' 11°41.1'	62°11.1' 62°13.9'	02-11	21.55-23.08	C B 880	32.0	28.0			
199	16/17-109	12°13.1' 12°13.9'	63°04.8' 63°07.0'	03-11	07.45-09.00 75 min.	C 2 B 2708	33.7	28.1			
200	18-001	12°33.8' 12°28.8'	69°16.0' 69°21.7'	13-11	00.10-09.30 560 min.	C 2 B 1752		28.2	27.3	3	8
201	18-002	12°38.5' 12°37.4'	68°30.9' 68°38.8'	14-11	02.15-08.30 375 min.	C 2 B 3240-2950		28.1	27.4	3	8
202	18-003	12°39.5' 12°32.1'	68°10.5' 68°19.3'	16-11 17-11	22.20-06.50 510 min.	C 2 B 3730-3976		28.2	26.3	6	9
203	18-004	12°40.5' 12°40.9'	68°55.0' 69°02.6'	18-11	00.50-07.15 395 min.	C 2 B 2496-2347		28.1	27.4	3	8
204	18-005	12°24.2' 12°21.0'	68°43.4' 68°49.3'	19-11	01.35-07.40 365 min.	C 2 B 2328-2064		28.2	27.1	4	8

205	18-006	12°45.0' 12°44.3'	69°30.4' 69°35.1'	20-11	01.20-07.15 355 min.	C 2 B 1836-1640	28.0	27.0	2	8
206	18-008	12°26.6' 12°17.5'	69°33.8' 69°37.5'	21-11	00.40-08.30 470 min.	C 2 B 1160-632	28.1	27.2	7	3
207	18-009	12°51.0' 12°48.9'	69°07.8' 69°10.1'	26-11	04.40-07.05 145 min.	C 2 B 2270	28.0	27.6	3	8
208	19-001	12°02.2' 12°03.3'	69°01.0' 69°03.3'	10-12	17.30-18.30 60 min.	C 2 B 970-1166	27.9	27.6	3	9
209	19-003	12°00.0' 12°01.8'	69°05.2' 09°16.3'	10-12 11-12	23.45-06.05 410 min.	C 2 B 1310-1100	27.9	27.2	3	8
210	19-004	12°40.6' 12°38.6'	69°43.6' 69°56.6'	11-12 12-12	22.35-08.30 595 min.	C 2 B 1300-992	27.5	27.0	2	8
211	19-005	12°26.7' 12°32.5'	69°57.3' 70°17.0'	15-12	00.05-07.05 420 min.	C 2 B 156-183-84	27.5	27.6	2	8
212	19-015	12°22.9' 12°32.6'	69°50.9' 70°11.7'	16-12	00.10-08.30 500 min.	C 2 B 325	27.7	27.4	2	8
213	19-009	12°22.3' 12°25.2'	69°56.1' 70°07.8'	17-12	05.10-09.00 230 min.	C 2 B 155-56	27.3	27.0	6	0
214	19-016	12°22.5' 12°27.7'	69°53.7' 70°12.3'	18-12	01.00-08.00	C 2 B 220-50-80	27.3	27.3	2	8
					<u>1971</u>					
215	22-002	13°02.3' 13°02.7'	62°57.0' 62°55.0'	12-03	04.35-07.00 145 min.	C 2 B 1880	25.8	23.2	5	8
216	22-003	12°00.1' 12°00.5'	62°56.0' 62°59.0'	12-03	12.45-15.30 165 min.	C 2 B 2200-1800	25.9	26.0	5	8
217	22-012	08°40.2' 08°38.0'	55°24.3' 55°31.1'	16-03	16.45-20.55 250 min.	C 1 B 3020	26.5	25.7	7	3
218	22-013	08°10.0' 08°10.8'	55°29.2' 55°31.8'	16-03	23.30-02.00	C 2 B 2400	26.5	25.9	6	8
219 <sup>A</sup>	22-020	06°35.2'	55°13.8'	18-03	18.00 120 min.	C 2 B 40	26.2	26.5	3	1
219 <sup>B</sup>	22-020	06°35.2'	55°13.8'	19-03	00.00 120 min.	C 2 B 40	26.0	25.2	1	1
219 <sup>C</sup>	22-020	06°35.2'	55°13.8'	19-03	02.00 120 min.	C 2 B 40	26.0	25.2	1	1
219 <sup>D</sup>	22-020	06°35.2'	55°13.8'	19-03	06.00 120 min.	C 2 B 40	26.2	26.2	5	3
219 <sup>E</sup>	22-020	06°35.2'	55°13.8'	19-03	09.00 120 min.	C 2 B 40	26.2	26.2	5	3
219 <sup>F</sup>	22-020	06°35.2'	55°13.8'	19-03	12.00 120 min.	C 2 B 40	26.1	26.5	7	3
219 <sup>G</sup>	22-020	06°35.2'	55°13.8'	19-03	14.00 120 min.	C 2 B 40	26.1	26.5	7	3
220	22-035	05°33.4' 05°33.5'	51°05.9' 51°06.9'	23-03	13.00	C B 124	26.9	26.3	4	8
221	22-036	05°32.0' 05°32.0'	51°12.0' 51°12.6'	23-03	14.00	C B 96	26.9	26.3	4	8
222	22-039	05°04.2' 05°04.2'	51°29.2' 51°30.2'	23-03	18.00	C B 65	27.3	26.7	3	8
223	22-046	06°46.0' 06°48.0'	52°26.2' 52°31.8'	24-03	13.00	C B 400-460	27.0	26.1	6	0

224	22-047	07°05.0' 07°07.0'	52°17.1' 52°19.2'	24-03	18.00	C B 2348-1920	26.9	26.3	5	8
225 <sup>A</sup>	22-048	07°33.7' 07°37.2'	52°01.0' 52°06.8'	24-03	22.00	C B 3650	26.5	26.0	3	6
225 <sup>B</sup>	22-048	07°33.7' 07°37.2'	52°01.0' 52°06.8'	24-03	24.00	C B 3650	26.5	26.0	3	6
226	22-049	07°58.0' 07°54.3'	51°35.2' 51°36.4'	25-03	06.00	C B 4400	26.3	24.7	5	9
227	22-050	08°55.7' 08°48.9'	50°58.8' 51°02.0'	25-03	18.00	C B 4468	26.8	25.9	6	6
228 <sup>A</sup>	22-064	06°28.4'	53°45.2'	29-03	12.00	C B 43	26.5	26.5	7	8
228 <sup>B</sup>	22-064	06°28.4'	53°45.2'	29-03	15.00	C B 43	26.5	26.5	7	8
228 <sup>C</sup>	22-064	06°28.4'	53°45.2'	29-03	18.00	C B 43	26.5	26.8	8	9
228 <sup>D</sup>	22-064	06°28.4'	53°45.2'	30-03	06.00 120 min.	C 2 B 43	26.0	26.0	4	8
229 <sup>A</sup>	23-002	04°32.7'	51°36.4'	18-04	14.30-16.30 120 min.	C 2 B 8	28.1	27.2	7	9
229 <sup>B</sup>	23-002	04°32.7'	51°36.4'	18-04	16.30-18.30 120 min.	C 2 B 8	28.1	27.2	7	9
229 <sup>C</sup>	23-002	04°32.7'	51°36.4'	18-04	18.30-20.30 120 min.	C 2 B 8	28.1	27.2	7	9
229 <sup>D</sup>	23-002	04°32.7'	51°36.4'	18-04	20.30-22.30 120 min.	C 2 B 8	28.1	27.2	7	9
230	23-003	04°42.4'	51°48.1'	19-04	18.23-19.05 42 min.	C 2 B 8	26.9	27.0	8	9
231	23-004	04°35.3'	51°32.6'	19-04	21.00-22.00 60 min.	C 2 B 11	26.9	27.0	8	9
232	23-007	04°42.2'	51°33.8'	20-04	05.00-07.00 120 min.	C 2 B 25	26.3	26.6	2	8
233	23-077	12°10.4' 12°10.2'	68°18.3' 68°20.4'	01-05	13.30-15.15 105 min.	C 2 B 218-400	26.1	26.3	5	8
234 <sup>A</sup>	23	12°08.4'	68°16.9'	02-05	11.00-13.00 120 min.	C 2 B				
234 <sup>B</sup>	23	12°08.4'	68°16.9'	02-05	17.00-19.00 120 min.	C 2 B				

LIST OF PUMP SAMPLES

Stat.	Cigar Stat. cruise	Position		Date 1971	Time G.M.T. Duration	Depth of net (C) ; of bottom (B)	Net Stat.	Temperature °C		Clouds	
		north	west					water	air	Amount (N)	Type (C)
P001	21	11°53.1'	67°46.3'	04-01	18.00						
P002	21	11°44.0'	67°08.0'	04-01	22.00						
P003	21	11°39.9'	66°49.0'	05-01	00.00						
P004	21	11°39.3'	65°52.1'	05-01	06.00						
P005	21	11°38.2'	64°54.8'	05-01	12.00						
P006	21	11°40.0'	63°56.4'	05-01	18.00						
P007	21	11°46.9'	62°58.4'	06-01	00.00						
P008	21	11°53.2'	61°58.5'	06-01	06.00						
P009	21	12°00.0'	61°03.0'	06-01	12.00						
P010	21	12°06.5'	60°00.6'	06-01	18.00						
P011	21	12°13.5'	58°58.7'	07-01	00.00						
P012	21	12°04.0'	57°58.9'	07-01	06.00						
P013	21	11°50.0'	57°16.9'	07-01	12.00						
P014	21	11°12.9'	58°11.2'	07-01	18.00						
P015	21	10°31.7'	59°15.0'	08-01	00.00						
P016	21	09°56.0'	60°18.8'	08-01	06.00						
P017	21	09°11.2'	60°21.6'	08-01	12.00						
P018	21	09°22.7'	59°57.7'	03-01	18.00						
P019	21	09°57.8'	58°53.0'	09-01	00.00						
P020	21	10°34.6'	58°06.1'	09-01	06.00						
P021	21	11°02.0'	57°31.0'	09-01	12.00						
P022	21	10°14.0'	57°42.6'	09-01	18.00						
P023	21	09°19.0'	57°55.0'	10-01	00.00						
P024	21	08°17.0'	58°20.6'	10-	06.00						
P025	21	07°30.1'	57°51.2'	10-01	18.00						
P026	21	08°32.1'	57°29.8'	11-01	00.00						
P027	21	09°34.6'	57°07.0'	11-01	06.00						
P028	21	10°36.7'	57°13.2'	11-01	12.00						
P029	21	11°37.1'	57°32.0'	11-01	18.00						
P030	21	11°44.5'	56°18.1'	12-01	00.00						
P031	21	10°39.2'	56°22.2'	12-01	06.00						
P032	21	09°39.0'	55°34.6'	12-01	12.00						
P033	21	08°43.8'	55°33.1'	12-01	18.00						
P034	21	07°45.5'	55°30.9'	13-01	00.00						
P035	21	08°04.1'	55°01.8'	15-01	12.00						
P036	21	08°52.0'	51°30.2'	17-01	06.00						
P037	21	07°03.9'	52°44.4'	17-01	12.00						
P038	21	07°48.0'	54°20.1'	18-01	18.00						
P039	21	07°47.5'	55°38.3'	19-01	00.00						
P040	21	08°39.0'	56°51.8'	19-01	12.00						





P077	22-020	06°35.2'	55°13.8'	19-03	14.00-14.15 15 min.	C 2 B 40	219 <sup>0</sup>	26.1	26.5	7	3
P078	22	06°35'	55°15'	19-03	18.00-18.15 15 min.	C 2 B 40		26.1	26.5	7	3
P079	22	06°32'	55°09'	19-03	19.00						
P080	22	06°13'	54°23'	20-03	00.00						
P081	22	06°00'	53°35'	20-03	06.45						
P082	22	05°33'	52°57'	20-03	12.00						
P083	22	05°10'	52°15'	20-03	18.00						
P084	22-027	04°52.1'	51°42.5'	21-03	00.00-00.15 15 min.	C 2 B 43		27.0	26.2	2	8
P085	22-027	04°52.1'	51°42.5'	21-03	06.00-06.15 15 min.	C 2 B 43		26.8	26.3	2	5
P086	22-027	04°52.1'	51°42.5'	21-03	12.00-12.15 15 min.	C 2 B 43		26.8	26.5	3	8
P087	22-027	04°52.1'	51°42.5'	22-03	00.00-00.15 15 min.	C 2 B 43		27.3	26.9	7	1
P088	22-029	04°59.0' 05°00.5'	51°35.2' 51°37.5'	22-03	04.50-05.05 15 min.	C 2 B 57		26.9	26.2	6	0
P089	22-030	05°13.8' 05°14.0'	51°21.8' 51°23.2'	22-03	07.30-07.45 15 min.	C 2 B 69		26.9	26.2	6	0
P090	22-031	05°31.8' 05°32.1'	51°07.8' 51°08.2'	22-03	09.45-10.00 15 min.	C 2 B 100		27.1	26.2	4	8
P091	22-032	05°45.1' 05°46.0'	50°55.4' 50°56.1'	22-03	12.04-12.19 15 min.	C 2 B 2300		27.1	26.2	4	8
P092	22-033	06°04.0' 06°04.9'	50°37.0' 50°41.0'	22-03	15.00-15.15 15 min.	C 2 B 3160		27.2	26.4	4	8
P093	22-034	06°48.6' 06°39.0'	50°18.8' 50°11.1'	23-03	00.00-00.15 15 min.	C 2 B 3960-4090		26.8	26.0	0	
P094	22	06°15'	50°18'	23-03	06.00						
P095	22	05°44.1'	50°28'	23-03	09.00						
P096	22	05°27'	50°31'	23-03	10.00						
P097	22	05°28'	50°43'	23-03	11.00						
P098	22	05°31'	50°50'	23-03	12.00		220				
P099	22-037	05°21.9' 05°22.2'	51°20.2' 51°21.2'	23-03	15.00-15.15 15 min.	C 2 B 75-74	221	26.9	26.3	4	8
P100	22-038	05°14.1' 05°14.1'	51°26.3' 51°27.8'	23-03	16.30-16.45 15 min.	C 2 B 80		27.3	26.7	3	8
P101	22-040	04°54.2' 04°54.3'	51°31.8' 51°32.7'	23-03	19.00-19.15 15 min.	C 2 B 55	222	27.3	26.7	3	8
P102	22-041	04°45.0' 04°45.1'	51°34.5' 51°35.4'	23-03	20.15-20.30 15 min.	C 2 B 37,5		27.3	26.7	3	8
P103	22-042	04°44.4'	51°47.0'	23-03	22.00-22.15 15 min.	C 2 B 10,5		26.9	26.3	0	
P104	22	05°00'	51°57'	24-03	00.00						
P105	22-043	05°36.5'	52°57.5'	24-03	05.00-05.15 15 min.	C 2 B 25		26.5	26.1	0	
P106	22	05°42'	52°52'	24-03	06.00						
P107	22-044	06°00.8' 06°00.7'	52°46.0' 52°47.3'	24-03	07.15-07.30 15 min.	C 2 B 49		26.5	26.1	0	

P108	22-045	06°27.0' 06°27.2'	52°35.5' 52°36.8'	24-03	10.04-10.19 15 min.	C 2 B 76		27.0	26.1	6	0
P109	22	06°43'	52°29'	24-03	12.00		223				
P110	22	08°15'	51°23'	25-03	12.00						
P111	22	08°55'	51°32'	26-03	00.00						
P112	22-051	09°07.8' 09°04.8'	52°28.0' 52°26.1'	26-03	06.00-06.15 15 min.	C 2 B 4700-4720		26.8	25.7	3	6
P113	22	08°36'	52°35'	26-03	12.00						
P114	22-052	08°18.5' 08°20.2'	52°42.1' 52°43.1'	26-03	15.00-15.15 15 min.	C 2 B 3060-2880		26.8	26.0	6	6
P115	22-052	08°18.5' 08°20.2'	52°42.1' 52°43.1'	26-03	17.00-17.15 15 min.	C 2 B 3060-2880		26.8	26.0	6	6
P116	22-053	07°35.0' 07°36.0'	52°57.6' 52°58.8'	26-03	22.00-22.15 15 min.	C 2 B 1000		26.7	25.0	3	6
P117	22	07°30'	53°00'	27-03	00.00						
P118	22	06°35'	53°16'	27-03	06.00						
P119	22-056	06°24.5' 06°25.0'	53°18.2' 53°19.0'	27-03	06.55-07.10 15 min.	C 2 B 50		26.4	26.3	8	9
P120	22-057	05°50.1' 05°50.7'	53°27.3' 53°28.2'	27-03	10.20-10.35 15 min.	C 2 B 21.5		25.6	23.3	8	4
P121	22-058	06°07.0' 06°08.0'	53°58.2' 53°58.6'	27-03	13.30-13.45 15 min.	C 2 B 19		25.6	23.3	8	4
P122	22-059	06°36.4' 06°37.2'	53°56.8' 53°58.9'	27-03	15.55-16.10 15 min.	C 2 B 44		27.0	25.3	7	8
P123	22	07°00'	53°56'	27-03	18.00						
P124	22-060	07°22.8' 07°23.9'	53°54.7' 53°55.2'	27-03	20.00-20.15 15 min.	C 2 B 150		27.0	25.3	7	8
P125	22-061	07°59.2' 08°03.1'	53°53.2' 53°56.8'	28-03	00.00-00.15 15 min.	C 2 B 1040		26.8	26.6	5	3
P126	22-062	08°41.7' 08°48.7'	54°01.1' 54°07.8'	28-03	05.00-05.15 15 min.	C 2 B 1250		26.8	26.5	2	8
P127	22-062	08°41.7' 08°48.7'	54°01.1' 54°07.8'	28-03	06.00-06.15 15 min.	C 2 B 1250		26.8	26.5	2	8
P128	22-063	09°36.8' 09°31.2'	54°12.1' 54°09.7'	28-03	12.00-12.15 15 min.	C 2 B 3280-4280		26.7	25.2	7	9
P129	22	09°10'	54°06'	28-03	18.00						
P130	22	08°01'	53°55'	29-03	00.01						
P131	22	06°55'	53°48'	29-03	06.00						
P132	22-064	06°28.4'	53°45.2'	29-03	10.00-10.15 15 min.	C 2 B 43	228 <sup>A</sup> 228 <sup>B</sup>	26.5	26.5	7	8
P133	22-064	06°28.4'	53°45.2'	29-03	21.00-21.15 15 min.	C 2 B 43	228 <sup>C</sup> 228 <sup>D</sup>	26.5	26.8	8	9
P134	22-064	06°28.4'	53°45.2'	30-03	00.01-00.16 15 min.	C 2 B 43	228 <sup>D</sup>	26.6	26.2	4	6
P135	22-064	06°28.4'	53°45.2'	30-03	03.00-03.15 15 min.	C 2 B 43		26.0	26.0	4	8
P136	22-064	06°28.4'	53°45.2'	30-03	06.00-06.15 15 min.	C 2 B 43		26.0	26.0	4	8
P137	22-064	06°28.4'	53°45.2'	30-03	09.00-09.15 15 min.	C 2 B 43		26.0	26.0	4	8

P138	22	06°24'	54°23'	30-03	12.00								
P139	23	06°13.2'	53°52.0'	15-04	00.01								
P140	23	07°11.0'	53°27.5'	15-04	06.00								
P141	23	06°09.7'	53°37.4'	15-04	12.00								
P142	23-001	05°47.7'	53°47.8'	15-04	18.00-18.15 15 min.	C 2 B 10		27.7	27.2	6	9		
P143	23	05°59.6'	53°25.7'	16-04	00.01								
P144	23	06°46.5'	52°52.5'	16-04	06.00								
P145	23	06°16.2'	52°40.0'	16-04	18.00								
P146	23	05°55.0'	52°33.2'	17-04	00.00								
P147	23	05°35.0'	52°21.0'	17-04	06.00								
P148	23	06°00.2'	51°44.4'	17-04	12.00								
P149	23	05°05.0'	52°19.5'	17-04	18.00								
P150	23	05°47.5'	51°35.0'	18-04	00.01								
P151	23	05°20.6'	51°37.0'	18-04	06.00								
P152	23	04°45.0'	51°47.0'	18-04	12.00								
P153	23-002	04°32.7'	51°36.4'	18-04	17.30-17.45 15 min.	C 2 B 8	229 <sup>A</sup>	28.1 27.8	27.2 26.8	7 3	9 8		
P154	23-002	04°32.7'	51°36.4'	18-04	19.30-19.45 15 min.	C 2 B 8	229 <sup>B</sup> 229 <sup>C</sup>	28.1 27.8	27.2 26.8	7 3	9 8		
P155	23-002	04°32.7'	51°36.4'	18-04	21.30-21.45 15 min.	C 2 B 8	229 <sup>D</sup>	28.1 27.8	27.2 26.8	7 3	9 8		
P156	23	05°03.5'	51°21.5'	19-04	06.00								
P157	23	05°22.0'	51°35.5'	19-04	12.00								
P158	23-003	04°42.4'	51°48.1'	19-04	18.00-18.15 15 min.	C 2 B 8	230	26.9	27.0	8	9		
P159	23-004	04°35.3'	51°32.6'	19-04	21.30-21.45 15 min.	C 2 B 11	231	26.9	27.0	8	9		
P160	23-005	04°50.1' 04°51.0'	51°32.8' 51°33.2'	19-04		B 52		27.8	26.8	3	8		
P161	23-007	04°42.2'	51°33.8'	20-04	01.45-02.00 15 min.	C 2 B 25		26.3	26.6	2	8		
P162	23-007	04°42.2'	51°33.8'	20-04	06.00	C 2 B 25	232	26.3	26.6	2	8		
P163	23-008	05°02.2' 05°03.5'	51°49.0' 51°50.7'	20-04	13.30-13.45 15 min.	C 2 B 50		26.6	27.0	5	8		
P164	23-009	04°59.5' 05°00.2'	51°51.4' 51°53.2'	20-04	14.30-14.45 15 min.	C 2 B 40		26.6	27.0	5	8		
P165	23-010	04°55.5' 04°56.0'	51°53.7' 51°54.7'	20-04	15.45-16.00 15 min.	C 2 B 32		27.9	26.1	6	9		
P166	23-013	05°03.6'	52°06.2'	20-04	22.20-22.35 15 min.	C 2 B 29		27.4 27.1	27.0 26.8	2 1	9 8		
P167	23-013	05°03.6'	52°06.2'	21-04	00.10-00.25 15 min.	C 2 B 29		27.4 27.1	27.0 26.8	2 1	9 8		
P168	23-013			21-04	06.00								
P169	23-014	05°07.0' 05°07.3'	52°05.3' 52°05.8'	21-04	11.45-12.00 15 min.	C 2 B 32		26.9	27.0	1	8		

P170	23-015	05°14.2' 05°15.4'	52°00.0' 52°01.4'	21-04	13.00-13.15 15 min.	C 2 B 52	26.9	27.0	1	8
P171	23-016	05°20.5' 05°21.2'	51°55.8' 51°56.7'	21-04	14.15-14.30 15 min.	C 2 B 60	26.9	27.0	1	8
P172	23-017	05°29.0' 05°31.6'	51°47.8' 51°50.9'	21-04	16.00-16.15 15 min.	C 2 B 67	27.9	27.7	2	8
P173	23-018	05°38.6' 05°42.1'	51°44.9' 51°49.0'	21-04	18.00-18.15 15 min.	C 2 B 75	27.9	27.7	2	8
P174	23-019	05°31.4' 05°32.8'	51°15.0' 51°16.6'	21-04	21.15-21.30 15 min.	C 2 B 50	27.2	27.2	2	5
P175	23-020	05°26.4' 05°27.0'	52°22.6' 52°24.3'	21-04	23.00-23.15 15 min.	C 2 B 32	27.2	27.2	2	5
P176	23	05°23'	52°22'	22-04	00.00					
P177	23-021	05°17.5' 05°17.5'	52°18.5' 52°18.8'	22-04	01.10-01.20 10 min.	C 2 B 29	27.2	27.2	2	5
P178	23-022	05°13.4' 05°13.5'	52°21.9' 52°22.8'	22-04	02.00-02.15 15 min.	C 2 B 26	27.2	27.2	2	5
P179	23-023	05°08.4'	52°25.6'	22-04	03.15-03.30 15 min.	C 2 B 8	27.4	27.0	2	8
P180	23-023	05°08.4'	52°25.6'	22-04	06.00-06.15 15 min.	C 2 B 8	27.4	27.0	2	8
P181	23	05°09'	52°26'	22-04	12.00					
P182	23-024	05°17.8' 05°18.7'	52°33.8' 52°34.5'	22-04	13.15-13.30 15 min.	C 2 B 16	27.2	26.9	3	8
P183	23-025	05°22.0' 05°22.5'	52°31.5' 52°33.3'	22-04	14.15-14.30 15 min.	C 2 B 26	27.2	26.9	3	8
P184	23-026	05°24.0' 05°24.4'	52°30.0' 52°31.1'	22-04	15.15-15.30 15 min.	C 2 B 29	27.2	26.9	3	8
P185	23-027	05°28.8' 05°30.6'	52°26.5' 52°30.0'	22-04	16.30-16.45 15 min.	C 2 B 44	27.4	27.3	4	8
P186	23	05°44'	52°32'	22-04	18.00					
P187	23-028	05°54.3' 05°56.0'	52°33.3' 52°35.4'	22-04	18.45-19.00 15 min.	C 2 B 54	27.4	27.3	4	8
P188	23-029	05°49.5' 05°52.4'	52°37.7' 52°41.1'	22-04	20.30-20.45 15 min.	C 2 B 45	27.4	27.3	4	8
P189	23-030	05°46.4' 05°47.7'	52°40.2' 52°41.6'	22-04	22.15-22.30 15 min.	C 2 B 46	26.9	27.2	2	6
P190	23-031	05°38.7' 05°39.4'	52°43.5' 52°45.6'	22-04	23.30-23.45 15 min.	C 2 B 41	26.9	27.2	2	6
P191	23-032	05°30.6'	52°47.4'	23-04	01.15-01.30 15 min.	C 2 B 19	26.5	26.8	4	8
P192	23	05°31'	52°47'	23-04	06.00					
P193	23-033	05°27.5'	52°49.0'	23-04	12.00-12.15 15 min.	C 2 B 12	26.9	27.0	6	8
P194	23-034	05°34.5'	52°57.3'	23-04	14.00-14.15 15 min.	C 2 B 14	26.9	27.0	6	8
P195	23-035	05°37.0' 05°38.2'	52°56.7' 52°58.0'	23-04	15.15-15.30 15 min.	C 2 B 24	26.9	27.0	6	8
P196	23-036	05°48.1' 05°50.2'	52°54.3' 52°56.6'	23-04	16.45-17.00 15 min.	C 2 B 43	27.3	27.9	4	8
P197	23-037	05°57.1' 05°58.6'	52°54.0' 52°55.7'	23-04	18.15-18.30 15 min.	C 2 B 44	27.3	27.9	4	8

P198	23-038	06°04.3' 06°06.6'	52°53.5' 52°56.0'	23-04	19.30-19.45 15 min.	C 2 B 48	27.3	27.9	4	8
P199	23-039	06°15.0'	52°52.5'	24-04	00.01	C 2 B 61	27.2	27.0	3	3
P200	23-039	06°15.0'	52°52.5'	24-04	00.00-00.15 15 min.	C 2 B 61	27.2	27.0	3	3
P201	23-040	06°21.6' 06°22.5'	52°46.7' 52°47.6'	24-04	01.30-01.45 15 min.	C 2 B 66	27.2	27.0	3	3
P202	23-041	06°26.8' 06°27.8'	52°42.0' 52°43.0'	24-04	03.00-03.15 15 min.	C 2 B 72	27.2	27.0	3	3
P203	23-042	06°31.8' 06°32.9'	52°37.1' 52°38.2'	24-04	04.15-04.30 15 min.	C 2 B 79	27.1	26.6	2	8
P204	23	06°05'	52°59'	24-04	12.00					
P205	23-044	05°58.4' 05°58.6'	52°59.0' 52°59.7'	24-04	12.30-12.45 15 min.	C 2 B 43	26.8	25.6	7	9
P206	23-045	05°43.7'	52°59.3'	24-04	14.30-14.45 15 min.	C 2 B 36	26.8	25.6	7	9
P207	23-046	05°39.2'	53°09.2'	24-04	15.15-15.30 15 min.	C 2 B 24	26.8	25.6	7	9
P208	23-047	05°36.0'	53°00.3'	24-04	18.00-18.15 15 min.	C 2 B 13	27.4	26.9	5	8
P209	23-048	05°45.7'	53°32.1'	24-04	22.45-23.00 15 min.	C 2 B 16	26.7	26.9	7	3
P210	23-049	05°50.5' 05°50.8'	53°30.3' 53°31.1'	25-04	00.35-00.50 15 min.	C 2 B 18	26.7	26.9	7	3
P211	23-050	05°57.8' 05°58.1'	53°28.7' 53°29.5'	25-04	01.40-01.55 15 min.	C 2 B 32	26.7	26.9	7	3
P212	23-051	06°06.7' 06°06.9'	53°26.5' 53°27.1'	25-04	02.55-03.10 15 min.	C 2 B 38	26.7	26.9	7	3
P213	23-052	06°14.1' 06°14.8'	53°24.6' 53°26.6'	25-04	04.15-04.30 15 min.	C 2 B 40	26.8	26.6	1	8
P214	23-053	06°20.1' 06°20.4'	53°24.3' 53°25.1'	25-04	05.07-05.22 15 min.	C 2 B 48	26.8	26.6	1	8
P215	23-054	06°28.2' 06°28.5'	53°39.7' 53°40.5'	25-04	06.25-06.40 15 min.	C 2 B 48	26.8	26.6	1	8
P216	23-055	06°16.2' 06°17.4'	53°46.3' 53°49.5'	25-04	08.30-08.45 15 min.	C 2 B 32	26.8	26.6	1	8
P217	23-056	06°09.2' 06°09.6'	53°53.6' 53°54.8'	25-04	09.40-09.55 15 min.	C 2 B 26	26.2	26.8	3	8
P218	23-057	06°03.1' 06°03.5'	53°52.3' 53°52.6'	25-04	10.55-11.10 15 min.	C 2 B 23	26.2	26.8	3	8
P219	23-058	05°59.9' 06°00.3'	53°51.2' 53°51.5'	25-04	11.35-11.50 15 min.	C 2 B 16	26.2	26.8	3	8
P220	23-059	05°55.3' 05°55.8'	53°49.5' 53°49.9'	25-04	12.30-12.45 15 min.	C 2 B 14	26.2	26.8	3	8
P221	23-060	05°50.4' 05°50.8'	53°46.6' 53°46.9'	25-04	13.40-13.55 15 min.	C 2 B 12	26.2	26.8	3	8
P222	23-061	05°55.3' 05°55.5'	53°42.1' 53°42.5'	25-04	14.45-15.00 15 min.	C 2 B 18	26.2	26.8	3	8
P223	23-062	06°00.0' 06°00.3'	53°37.9' 53°38.6'	25-04	16.00-16.15 15 min.	C 2 B 30	26.8	26.8	4	8
P224	23-063	06°02.2' 06°02.5'	53°36.5' 53°37.2'	25-04	16.45-17.00 15 min.	C 2 B 31	26.8	26.8	4	8

P225	23-064	06°04.7' 06°04.9'	53°34.7' 53°35.2'	25-04	17.40-17.55 15 min.	C 2 B 34	26.8	26.8	4	8	
P226	23-065	06°10.3' 06°10.5'	53°29.4' 53°29.9'	25-04	18.55-19.10 15 min.	C 2 B 38	26.8	26.8	4	8	
P227	23-066	06°19.9'	53°19.7'	25-04	22.00-22.15 15 min.	C 2 B 54	26.7	26.9	3	3	
P228	23	06°16.7'	54°09.4'	26-04	00.01						
P229	23	06°07'	55°13'	26-04	06.00						
P230	23-067	06°14.3'	55°13.5'	27-04	11.30-11.45 15 min.	C 2 B 21	27.0	25.4	4	9	
P231	23-068	06°28.3'	55°15.5'	27-04	17.15-17.30 15 min.	C 2 B 36	27.0	25.4	4	9	
P232	23-069	06°49.2'	55°18.1'	27-04	20.00-20.15 15 min.	C 2 B 49	27.0	25.4	4	9	
P233	23-070	07°10.1' 07°11.0'	55°18.8' 55°20.2'	27-04	23.00-23.15 15 min.	C 2 B 75	27.1	26.0	1	8	
P234	23	07°18'	55°20'	28-04	00.00						
P235	23-071	07°27.7' 07°30.1'	55°18.7' 55°22.7'	28-04	00.50-01.05 15 min.	C 2 B 1400	27.1	26.0	1	8	
P236	23	08°07'	55°19'	28-04	06.00						
P237	23-072	08°14.3' 08°16.9'	55°18.0' 55°22.2'	28-04	07.00-07.15 15 min.	C 2 B 2768-2670	27.0	26.6	1	8	
P238	23-073	08°37.0' 08°38.0'	55°19.0' 55°22.5'	28-04	11.30-11.45 15 min.	C 2 B 2940-2950	27.1	26.8	4	9	
P239	23	08°52'	56°09'	28-04	18.00						
P240	23-074	08°56.3' 08°57.0'	56°24.0' 56°26.0'	28-04	20.00	C 2 B 3130	27.3	26.7	6	9	
P241	23	08°59'	56°47'	29-04	00.01						
P242	23	09°06'	58°13'	29-04	06.00						
P243	23-075	09°09.1' 09°09.6'	58°36.9' 58°40.2'	29-04	08.00-08.15 15 min.	C 2 B 1620	27.0	25.7	6	9	
P244	23	10°18'	59°56'	29-04	18.00						
P245	23	11°04.0'	60°44.0'	30-04	00.01						
P246	23	11°22.0'	62°10.0'	30-04	06.00						
P247	23	11°50.0'	63°40.0'	30-04	12.00						
P248	23	12°17.0'	65°04'	30-04	18.00						
P249	23-076	12°32.2' 12°32.7'	65°59.9' 66°00.8'	30-04	22.40-22.55 15 min.	C 2 B 4800	27.0	26.9	8	8	
P250	23	12°33'	66°02'	01-05	00.01						
P251	23	12°18'	67°18'	01-05	06.00						
P252	23-077	12°10.4' 12°10.2'	68°18.3' 68°20.4'	01-05	13.00-13.15 15 min.	C 2 B 218-400	246	26.1	26.3	5	8
P253	23-077	12°10.4' 12°10.2'	68°18.3' 68°20.4'	01-05	13.45-14.00 15 min.	C 2 B 218-400	26.1	26.3	5	8	
P254	27	17°47'	63°16'	26-08	12.00						
P255	27	16°58'	63°59'	26-08	18.00						
P256	27	16°16'	64°31'	27-08	00.01						
P257	27	15°25'	65°20'	27-08	06.00						
P258	27	14°49'	66°07'	27-08	12.00						

P259	27	14°08'	67°10'	27-08	18.00
P260	27	13°26.0'	68°14.0'	28-08	00.01
P261	27	12°43'	69°18'	28-08	06.00
P262	27	12°15'	69°18'	06-09	18.00
P263	27	12°11'	70°12'	22-09	18.00
P264	28	11°43.5'	70°19.8'	24-09	12.00
P265	28	12°30'19"	70°27'53"	27-09	18.00
P266	28	12°20'02"	70°27'26"	28-09	00.01
P267	28	12°21'49"	70°28'33"	28-09	06.00
P268	28	12°04'09"	70°26'18"	28-09	12.00
P269	28	12°30'19"	70°27'53"	28-09	18.00
P270	28	12°17'49"	70°24'46"	29-09	00.01
P271	28	12°12'09"	70°26'34"	29-09	06.00
P272	28	12°17'26"	70°20'56"	29-09	12.00
P273	28	12°07'32"	70°25'24"	29-09	18.00
P274	28	12°04'16"	70°22'07"	30-09	00.01
P275	28	12°07'37"	70°21'22"	30-09	06.00
P276	28	12°17'26"	70°20'56"	30-09	12.00
P277	28	12°28'10"	70°20'30"	30-09	18.00
P278	28	12°29'04"	70°19'11"	01-10	00.01
P279	28	12°24'50"	70°18'57"	01-10	06.00
P280	28	12°07'01"	70°17'59"	02-10	00.01
P281	28	12°14'47"	70°17'32"	02-10	06.00
P282	28	12°25'56"	70°16'55"	02-10	12.00
P283	28	12°32'51"	70°15'58"	02-10	18.00
P284	28	12°20'44"	70°15'34"	03-10	00.01
P285	28	12°10'35"	70°14'39"	03-10	06.00
P286	28	12°14'55"	70°14'06"	03-10	12.00
P287	28	12°06'41"	70°12'59"	03-10	18.00
P288	28	12°17'38"	70°13'13"	04-10	00.01
P289	28	12°28'11"	70°12'14"	04-10	06.00
P290	28	12°11'22"	70°11'20"	04-10	12.00
P291	28	12°33'23"	70°09'56"	04-10	18.00
P292	28	12°29'22"	70°09'56"	05-10	00.01
P293	28	12°12'06"	70°09'07"	05-10	06.00
P294	28	12°33'49"	70°08'49"	05-10	12.00
P295	28	12°11'37"	70°07'37"	05-10	18.00
P296	28	12°20'10"	70°05'40"	06-10	18.00
P297	28	12°17'05"	70°04'47"	07-10	00.01
P298	28	12°19'42"	70°04'15"	07-10	06.00



P299	28	12°20'58"	70°03'12"	07-10	12.00	
P300	28	12°25'35"	70°02'21"	07-10	18.00	
P301	28	12°22'19"	70°00'04"	08-10	00.01	
P302	28	12°18'22"	69°59'35"	08-10	06.00	
P303	28	12°18'54"	69°58'09"	08-10	12.00	
P304	28	12°07'14"	70°11'04"	08-10	18.00	
P305	28	12°06'04"	70°15'27"	09-10	00.01	
P306	28	12°12'12"	70°03'01"	09-10	12.00	
P307	28	12°28'27"	70°01'50"	09-10	18.00	
P308	28	11°51'00"	70°23'00"	12-10	12.00	
P309	28	12°09'	69°01'	20-10	24.00	
P310	28	12°24'	70°20'	21-10	02.00	
P311	28	12°03.8'	69°47.0'	21-10	12.00	
P312	28	12°28'	69°51'	21-10	18.00	
P313	28	12°24.5'	69°47.0'	22-10	00.01	
P314	28	12°16'	69°55'	22-10	06.00	
P315	28	12°15.8'	69°54.5'	22-10	12.00	
P316	28	12°18.0'	69°53.0'	22-10	18.00	
P317	29	12°11.0'	69°52.0'	22-10	24.00	
P318	29 <sup>A</sup>	12°00'	68°48'	23-10	06.00	
P319	29	12°23.5'	69°59.0'	23-10	12.00	
P320	29	12°25'	69°54'	23-10	18.00	
P321	29	12°15.5'	69°52.0'	24-10	06.00	
P322	29	12°11.7'	69°58.0'	24-10	12.00	
P323	29	12°17'	69°54'	24-10	18.00	
P324	29	12°53.3'	69°43.8'	25-10	00.01	
P325	29	12°18'	69°50'	25-10	06.00	
P326	29	12°	69°44.0'	25-10	12.00	
P327	29	12°18'	69°46'	25-10	18.00	
P328	29	12°20.5'	69°53.5'	25-10	24.00	
P329	29 <sup>A</sup>	12°07'	68°41'	26-10	06.00	
P330	29	12°22.5'	69°48.7'	26-10	12.00	
P331	29	12°36.3'	70°11'	28-10	00.02	
P332	29	11°57'	70°21'	28-10	06.00	
P333	29	11°43'	70°17'	30-10	12.00	
P334	29	12°08'	70°18'	30-10	14.20	26.5
P335	29	12°10'	70°17'	30-10	14.30	26.5
P336	29	12°30'	70°00'	30-10	18.15	
P337	29	12°17.5'	69°54.2'	31-10	00.01	
P338	29	12°06'	69°20'	31-10	06.00	

P339	29	12°56'	69°04'	31-10	18.00	
P340	29	12°11'	68°48'	31-10	20.02	
P341	29	11°43'	69°33'	01-11	00.00	
P342	29 <sup>A</sup>	11°56'	68°40'	01-11	06.00	
P343	29	12°04.7'	65°55.4'	01-11	12.00	
P344	29	11°45'	69°24'	01-11	18.00	
P345	29	11°49'	69°20'	01-11	18.45	27.5
P346	29	11°49.5'	69°20.4'	01-11	24.00	
P347	29	12°08'	69°00'	02-11	06.00	
P348	29 <sup>A</sup>	11°32'	68°53'	02-11	12.00	
P349	29	12°02'	69°48'	02-11	12.00	
P350	29	12°21'	69°47'	02-11	18.00	
P351	29	12°22'	69°43'	03-11	00.00	
P352	29	12°13.5'	69°40.0'	03-11	06.00	
P353	29	12°10.3'	69°43.5'	03-11	12.00	
P354	29	12°06.5'	69°45.5'	03-11	18.00	
P355	29	12°02.5'	69°42.1'	03-11	24.00	
P356	29 <sup>A</sup>	11°47'	68°09'	04-11	06.00	
P357	29	12°20'	69°27'	04-11	12.00	
P358	29	11°52'	69°41'	04-11	18.00	
P359	29	12°08'	69°33'	04-11	24.00	
P360	29	12°10'	69°31'	05-11	06.00	
P361	29	12°05.2'	69°50.2'	05-11	12.00	
P362	29	12°01'	69°48'	05-11	18.00	
P363	29	11°48.0'	69°37.1'	06-11	00.01	
P364	29	12°04'	69°06'	06-11	06.00	
P365	29	11°49.6'	69°30.7'	07-11	00.00	
P366	29A	11°54'	68°33'	07-11	06.00	
P367	29	12°11'	69°07'	07-11	12.00	
P368	29	11°37.7'	69°40.0'	07-11	18.00	
P369	29	11°44'	69°35'	08-11	00.30	
P370	29	12°11'	69°16'	08-11	06.00	
P371	29	12°02'	69°24'	08-11	12.00	
P372	29	11°51.3'	69°33.2'	08-11	18.00	
P373	29	11°42'12"	69°43'30"	09-11	00.00	
P374	29	11°51.3'	69°36.0'	09-11	06.00	
P375	29	12°00.6'	69°24.7'	09-11	16.00	
P376	29A	11°49.3'	69°12.5'	22-11	18.00	
P377	29A	12°12.8'	69°18.0'	22-11	24.00	
P378	29A	11°53.7'	68°56.9'	23-11	00.00	

P379	29 <sup>A</sup>	12°02'	69°31'	23-11	06.00
P380	29 <sup>A</sup>	11°38'	69°28.6'	23-11	12.00
P381	29 <sup>A</sup>	11°49'	69°10'	23-11	18.00
P382	29 <sup>A</sup>	11°46'	69°02.5'	24-11	00.00
P383	29 <sup>A</sup>	11°47'	69°10'	24-11	06.00
P384	29 <sup>A</sup>	11°52'	68°55'	24-11	12.00
P385	29 <sup>A</sup>	11°42'	69°16'	24-11	18.00
P386	29 <sup>A</sup>	11°50'	68°50'	25-11	06.00
P387	29 <sup>A</sup>	11°35.5'	69°22.3'	25-11	12.00
P388	29 <sup>A</sup>	11°34.5'	69°21.5'	25-11	18.00
P389	29 <sup>A</sup>	11°38.7'	69°16.0'	25-11	24.00
P390	29 <sup>A</sup>	11°34'	69°06.5'	26-11	00.00
P391	29 <sup>A</sup>	11°37'	69°11'	26-11	06.00
P392	29 <sup>A</sup>	12°06'	68°56'	26-11	12.00
P393	29 <sup>A</sup>	11°33.5'	69°09'	26-11	18.00
P394	29 <sup>A</sup>	11°35.0'	68°50.3'	27-11	00.00
P395	29 <sup>A</sup>	11°28'	69°02'	27-11	06.00
P396	29 <sup>A</sup>	12°01'	68°52'	27-11	18.00
P397	29 <sup>A</sup>	11°07'05"	68°12'00"	28-11	06.00
P398	29 <sup>A</sup>	11°40'	68°14'	29-11	18.00
P399	29 <sup>A</sup>	12°14.8'	68°53.6'	30-11	00.00
P400	29 <sup>A</sup>	11°44'	68°48'	30-11	00.00
P401	29 <sup>A</sup>	12°25'	69°11'	30-11	06.00
P402	29 <sup>A</sup>	12°05'	68°56'	30-11	12.00
P403	29 <sup>A</sup>	11°38'	68°46'	30-11	18.00
P404	29 <sup>A</sup>	11°41.3'	69°02.0'	01-12	00.00
P405	29 <sup>A</sup>	11°50'	68°49'	01-12	06.00
P406	29 <sup>A</sup>	11°58'	68°52'	01-12	12.00
P407	29 <sup>A</sup>	11°36'	68°54'	01-12	18.00
P408	29 <sup>A</sup>	11°33.2'	68°42.7'	02-12	00.00
P409	29 <sup>A</sup>	11°38'	69°03'	02-12	06.00
P410	29 <sup>A</sup>	11°31.5'	68°15.8'	02-12	18.00
P411	29 <sup>A</sup>	11°55.8'	68°37.5'	03-12	00.00
P412	29 <sup>A</sup>	11°45'	68°42'	03-12	06.00
P413	29 <sup>A</sup>	11°59.4'	68°40.1'	03-12	12.00
P414	29 <sup>A</sup>	11°37.3'	68°38.7'	03-12	18.00
P415	29 <sup>A</sup>	11°48'	68°35'	04-12	06.00
P416	29 <sup>A</sup>	11°40.5'	68°33.5'	04-12	12.00
P417	29 <sup>A</sup>	11°31'	68°31'	04-12	18.00
P418	29 <sup>A</sup>	12°04'	68°30'	04-12	24.00

P419	29 <sup>A</sup>	12°05'	68°29'	05-12	06.00
P420	29 <sup>A</sup>	11°45'	68°30'	05-12	12.00
P421	29 <sup>A</sup>	11°42.7'	68°28.0'	05-12	16.00
P422	29 <sup>A</sup>	11°49'	68°25.1'	06-12	
P423	29 <sup>A</sup>	11°57.5'	68°17.5'	06-12	00.00
P424	29 <sup>A</sup>	11°21'	68°23'	06-12	06.00
P425	29 <sup>A</sup>	11°26'	68°22.5'	06-12	12.00
P426	29 <sup>A</sup>	11°47'	68°20'	06-12	18.00
P427	29 <sup>A</sup>	11°57'	68°16.5'	07-12	00.00
P428	29 <sup>A</sup>	11°37'	68°35'	07-12	06.00
P429	29 <sup>A</sup>	12°03.6'	68°54.0'	07-12	12.00
P430	29 <sup>A</sup>	12°01'	68°48'	07-12	18.00
P431	29 <sup>A</sup>	11°23'	68°33.5'	08-12	00.00
P432	29 <sup>A</sup>	11°17'	68°26'	08-12	08.00
P433	29 <sup>A</sup>	11°26'	60°27'	08-12	12.00
P434	29 <sup>A</sup>	11°28'	68°38'	08-12	18.00
P435	29 <sup>A</sup>	11°16.3'	68°26.8'	09-12	00.00
P436	29 <sup>A</sup>	11°24'	68°34'	09-12	12.00
P437	29 <sup>A</sup>	11°22'	68°29'	09-12	18.00
P438	29 <sup>A</sup>	11°14.0'	68°25.0'	10-12	12.00
P439	29 <sup>A</sup>	11°49'	68°43'	10-12	18.00
P440	29 <sup>A</sup>	11°59.2'	68°39.0'	12-12	00.00
P441	29 <sup>A</sup>	11°34'	68°32'	12-12	06.00
P442	29 <sup>A</sup>	11°58'	68°39'	12-12	12.00
P443	29 <sup>A</sup>	11°59'	68°39'	13-12	00.00
P444	29 <sup>A</sup>	12°02'	68°34'	13-12	12.00
P445	29 <sup>A</sup>	12°01.0'	68°16.5'	13-12	18.00
P446	29 <sup>A</sup>	11°59'	68°40'	14-12	13.00
P447	29 <sup>A</sup>	12°05'	68°36'	14-12	18.00
P448	29 <sup>A</sup>	11°35'	67°52'	18-12	00.00
P449	29 <sup>A</sup>	11°18'	67°36'	18-12	06.00
P450	29 <sup>A</sup>	11°13'	67°44'	22-12	18.00
P451	31	12°02.0'	68°42.3'	<sup>1972</sup> 23-02	00.01
P452	31	12°35.0'	68°13.5'	23-02	06.00
P453	31	13°20.5'	67°27.0'	23-02	12.00
P454	31	13°52.5'	66°56.5'	23-02	18.00
P455	31	14°33.0'	66°14.5'	23-02	24.00
P456	31	15°10'	65°33.5'	24-02	06.00
P457	31	15°47'	64°54'	24-02	12.00
P458	31	16°17'	64°13'	24-02	18.00

P459	31	17°13.2'	63°31.4'	24-02	24.00
P460	31	17°18'	63°31'	25-02	00.30
P461	31	17°33'	63°23'	25-02	06.00
P462	31	17°43'	63°16'	26-02	12.00
P463	31	17°40.5'	63°30'	28-02	00.01
P464	31	17°56.8'	64°47'	28-02	06.00
P465	31	17°25'	66°07'	28-02	24.00
P466	31	13°38'	68°36'	29-02	00.01
P467	31	16°08.0'	66°47.5'	29-02	06.00
P468	31	15°24.0'	67°18.0'	29-02	12.00
P469	31	14°28'	67°56'	29-02	18.00
P470	31	12°38'10"	69°16'15"	01-03	06.00
P471	32	15°25'	67°29.7'	13-03	24.00
P472	32	14°16'	66°43'	14-03	06.00
P473	32	14°58.5'	65°57.5'	14-03	12.00
P474	32	15°40'	65°17.0'	14-03	18.00
P475	32	16°31.5'	64°11'	14-03	24.00
P476	32	17°26'	63°33'	15-03	06.00
P477	32	17°49.5'	63°11'	20-03	24.00
P478	32	17°31.4'	63°27.4'	22-03	00.00
P479	32	17°47'	63°25'	22-03	06.00
P480	32	17°31.4'	63°20.7'	22-03	12.00
P481	32	17°30'	63°00'	22-03	18.00
P482	32	17°27.5'	63°21'	23-03	00.01
P483	32	17°41'	63°27'	23-03	06.00
P484	32	17°27'	63°21'	23-03	12.00
P485	32	17°27'	63°21.0'	23-03	13.00
P486	32	17°40'	63°06'	23-03	18.00
P487	32	18°00'	63°05'	24-03	18.00
P488	32	17°42.4'	63°27.3'	25-03	06.00
P489	32	17°27'	62°51'	26-03	00.01
P490	32	17°57.8'	63°05.6'	26-03	06.00
P491	32	17°27.5'	63°21.0'	27-03	24.00
P492	32	16°33'	64°01'	28-03	08.00
P493	32	15°43.0'	64°51.0'	28-03	12.00
P494	32	14°44'	64°52'	28-03	18.30
P495	32	14°00'	66°40'	29-03	00.01
P496	32	13°05'	67°25'	29-03	06.00
P497	32	12°20'	68°33'	29-03	12.00

P498	33	13°52'	66°55'	13-04	06.00
P499	33	14°21'	66°24.5'	13-04	12.00
P500	33	15°08'	65°47'	13-04	18.00
P501	33	17°21.5'	63°08'	14-04	00.01
P502	33	16°42'	63°52'	14-04	06.00
P503	33	17°27.5'	63°09'	15-04	12.00
P504	33	17°39'	63°21'	15-04	18.00
P505	33	17°34'	63°33'	16-04	00.01
P506	33	17°36'	63°24'	16-04	00.01
P507	33	17°21'	63°25'	16-04	06.00
P508	33	17°25'	63°28'	16-04	12.00
P509	33	17°32'	63°31'	16-04	16.00
P510	33	17°13'	63°37'	17-04	06.00
P511	33	17°27'	63°28'	17-04	12.00
P512	33	17°28.5'	63°44'	18-04	06.00
P513	33	17°22'	63°40'	18-04	12.00
P514	33	17°28.5'	63°19.0'	18-04	24.00
P515	33	17°22'	63°20'	19-04	06.00
P516	33	17°13.0'	63°17.0'	19-04	12.00
P517	33	17°32'	63°13'	19-04	18.00
P518	33	17°47'	63°37'	20-04	00.01
P519	33	17°40'	63°32.5'	20-04	06.00
P520	33	17°42'	63°24'	20-04	12.00
P521	33	17°36.5'	63°04.2'	21-04	00.01
P522	33-B2-3			21-04	05.00
P523	33			22-04	06.00
P524	33	18°30'	65°25'	22-04	08.00
P525	33	18°30'	65°27'	22-04	09.00
P526	33	18°27'	65°16'	24-04	18.00
P527	33	18°01'	64°46'	24-04	22.00
P528	33	17°54'	64°23'	24-04	24.00
P529	33			25-04	06.00
P530	33	18°06'	63°17'	25-04	12.00
P531	33	18°17'	63°20'	25-04	18.00
P532	33	17°58'	63°30'	26-04	00.01
P533	33	17°56'	63°32'	26-04	06.00
P534	33	18°04'	63°36'	26-04	12.00
P535	33	18°06.5'	63°41.0'	27-04	00.01
P536	33	18°08'	63°43'	27-04	06.00
P537	33	18°08.0'	63°48.5'	27-04	12.00

P538	33	17°19.5'	63°52'	27-04	16.00				
P539	33	17°25'	63°47'	28-04	00.01				
P540	33	17°28'	63°21'	28-04	06.00				
P541	33	16°36'	64°21'	29-04	06.00				
P542	33	14°48'	66°02'	29-04	18.00				
P543	33	14°08'	66°53'	30-04	00.01				
P544	33	13°11'	67°50'	30-04	06.00				
P545	34	12°29.6'	68°08.3'	10-05	18.00				
P546	34	14°03'	66°33'	11-05	06.00				
P547	34	15°21'	65°11'	11-05	18.00				
P548	34	16°07'	64°20'	12-05	00.01				
P549	34	16°55'	62°33'	12-05	06.00		26.3	25.3	3 8
						B 65			
P550	34	17°23'	63°18'	13-05	06.00		26.6	25.1	2 8
P551	34	17°30'	63°35'	14-05	12.00		26.3	25.7	6 8
						B 35			
P552	34	17°20'	63°33'	15-05	16.00		26.1	25.6	6 8
						B 44			
P553	34	17°42'	63°24'	16-05	06.00		26.4	25.3	3 8
						B 878			
P554	34	17°20'	63°40'	16-05	12.00		26.3	25.6	6 8
						B 43			
P555		17°20'	63°21'	16-05	18.00-18.10 10 min.		26.6	26.0	2 8
						B 22			
P556	34	17°10'	63°38'	17-05	06.00		26.6	25.7	3 8
						B 360			
P557	34	17°28'	63°13'	17-05	16.00		26.6	25.3	1 8
						B 35			
P558	34	17°20'	63°15'	18-05	12.00		26.5	25.1	7 8
						B 23			
P559	34	17°09'	63°42'	18-05	18.00		27.1	26.0	6 8
						B 500			
P560	34	17°16.8'	63°47.0'	19-05	00.00		26.7	25.8	5 8
						B 620			
P561	34	17°24'	63°49'	19-05	06.00		26.7	26.0	5 8
						B 765			
P562	34	17°45'	63°29'	19-05	12.00		26.4	26.0	6 8
						B 260			
P563	34	17°33.5'	63°15'	19-05	18.00		26.6	25.7	5 8
						B 17			
P564	34	17°35'	63°10'	20-05	00.01		26.6	25.2	4 9
						B 26			
P565	34	17°15'	62°04'	22-05	24.00		26.6	26.0	2 8
						B 30			
P566	34	17°15.5'	63°27'	24-05	00.01		27.0	26.4	2 8
						B 540			
P567	34	17°06'	63°23'	24-05	06.00		26.9	26.5	5 8
						B 16			
P568	34	17°11'	63°27.5'	24-05	24.00		26.8	26.8	6 8
P569	34			25-05	06.00				
P570	34	17°55'	63°05'	25-05	18.00				

P571	34	16°52'	63°51'	27-05	00.00
P572	34	16°14'	64°46'	27-05	06.00
P573	34	14°50'	66°20'	27-05	18.00
P574	34	14°05'	67°08'	27-05	24.00
P575	34	13°17.8' 13°19'	67°49' 67°50'	28-05	06.00
P576	35	13°23.2'	67°36.8'	07-06	12.00
P577	35	14°05.5'	66°47'	07-06	18.00
P578	35	15°33'	65°32'	08-06	06.00
P579	35	16°50'	64°03'	08-06	18.00
P580	35	17°32.2'	63°26.8'	12-06	18.00
P581	35			13-06	06.00
P582	35	17°26'	63°44'	13-06	12.00
P583	35	17°25'	63°40'	13-06	18.00
P584	35	17°29'	63°13'	14-06	18.00
P585	35	17°42'	63°24.7'	15-06	06.00
P586	35	17°34'	63°31.5'	15-06	12.00
P587	35	17°43'	63°09'	16-06	06.00
P588	35	17°50'	63°03'	16-06	12.00
P589	35	18°00'	63°00.0'	16-06	16.00
P590	35	17°20'	63°08'	16-06	24.00
P591	35	16°35.6'	63°15.0'	17-06	06.00
P592	35	15°10'	65°23'	17-06	17.00
P593	35	14°28'	66°11'	18-06	00.00
P594	35	13°55'	66°42'	18-06	06.00
P595	35	13°10'	67°26'	18-06	12.00
P596	35	12°27'	68°15'	18-06	18.00
P597	37	12°40'	70°01'	23-08	
P598	37	12°38.0'	70°02.6'	23-08	12.00
P599	37	12°39'	70°03'	24-08	00.01
P600	37	12°40'	70°04'	24-08	06.00
P601	37	12°50'	70°35'	24-08	12.00
P602	37	12°40'	70°25'	24-08	18.00
P603	37	12°40'	70°08'	25-08	06.00
P604	37	12°39'	70°02'	25-08	12.00
P605	37	12°39'	69°59'	25-08	12.00
P606	37	12°	69°	25-08	18.00
P607	37	12°32'	70°05'	26-08	00.01
P608	37	12°46.0'	68°15.5'	26-08	12.00
P609	37	12°46'	70°16'	26-08	16.00



P610	37	12°37'	70°25'	27-08	00.01
P611	37	12°31'	70°03'	01-09	00.00
P612	37	12°40'	71°11.2'	01-09	06.00
P613	37	12°25'	72°25'	01-09	12.00
P614	37	12°25'	72°25'	01-09	12.00
P615	37	11°58'	73°26'	01-09	18.00
P616	37	11°15'	74°53'	02-09	01.00
P617	37	10°50'	75°39'	02-09	06.00
P618	37	11°07'	75°10'	05-09	06.00
P619	37	11°55.4'	74°12.5'	05-09	12.00
P620	37	12°05'	73°10'	05-09	16.00
P621	37	12°37.0'	72°12.1'	06-09	00.01
P622	37	12°40'	71°05'	06-09	06.00
P623	37	12°28.2'	70°07.3'	06-09	12.00
P624	38	12°39.8'	68°31.8'	25-09	18.00
P625		13°26.3'	67°50.6'	26-09	00.00
P626	38	14°12.0'	67°05.0'	26-09	06.00
P627		14°56'	66°20'	26-09	12.00
P628		16°15'	65°16'	27-09	00.00
P629	38	16°51'	64°31'	27-09	06.00
P630		17°35'	63°36'	27-09	12.00
P631	38	17°41'	63°54'	28-09	18.00
P632	38	17°45'	62°58'	30-09	00.30
P633	38	17°33'	62°59'	02-10	00.01
P634	38	17°46.8'	63°15.4'	02-10	06.00
P635	38	17°40'	63°08'	02-10	12.00
P636	38	17°32.0'	62°52.2'	02-10	18.00
P637	38	17°35.0'	63°26.0'	05-10	06.00
P638	38	17°30.0'	64°01.8'	05-10	12.00
P639	38	17°41'	64°12.5'	05-10	18.00
P640	38	17°46.5'	64°20.2'	06-10	00.00
P641	38	17°58'	63°20'	06-10	06.00
P642	38	17°58'	64°27'	06-10	12.00
P643	38	18°12.0'	64°12.0'	07-10	00.00
P644	38	18°01.2'	64°25.8'	10-10	00.25
P645	38	17°39'	63°20'	10-10	06.00
P646	38	17°32'	63°02'	10-10	12.00
P647	38	17°30.2'	63°00.2'	10-10	18.00
P648	38	17°31.3'	63°00.1'	11-10	00.00
P649	38	17°39.1'	63°04.9'	11-10	06.00

P650	38	17°29.3'	62°55.8'	11-10	12.00
P651	38	17°29'	62°59'	11-10	18.00
P652	38	17°33'	62°57.5'	12-10	00.00
P653	38	17°36'	63°04'	12-10	06.00
P654	38	17°25'	63°08'	12-10	12.00
P655	38	18°03.8'	63°14.3'	13-10	00.00
P656	38	18°03'	63°20'	13-10	06.00
P657	38	18°00.8'	63°10'	13-10	12.00
P658	38	17°45.4'	63°28.5'	13-10	18.00
P659	38	16°17.0'	63°59.0'	14-10	06.00
P660	38	15°26'	64°45'	14-10	12.00
P661	38	14°28.0'	65°41.0'	14-10	18.00

LITERATUUR

- CICAR: First Interim Report, 1972. IN: Netherlands Co-ordinating Commission for CICAR. Review 1971 and programme for 1972. Mimeographed, Ministerie van Defensie, Afd. Hydrografie, no.: 182810/18572/BUR, 25 May, 1972.
- Stock, J.H., 1973. *Nannallecto fusii* n.gen. n.s.p. a copepod parantic in the pteropod *Pneumodernopsis*- Bull. Zool. Mus. 3(4): 21-24.
- Troost, D.G. & Van der Spoel, 1972. Juveniles of *Cavolinia inflexa* (Lesueur, 1813) and *Cavolinia longirostris* (de Blainville, 1821), their discrimination and development (Gastropoda, Pteropoda). - Bull. Zool. Mus. Univ. Amsterdam, 2 (20):221-235.
- Troost, D.G., 1973. Onderzoek aan enkele groepen uit het plankton verzameld in het kader van "Cooperative Investigations in the Caribbean and Adjacent Regions"- Verslagen en Technische Gegevens 1: 1-93. (See also 1973. Netherlands Coord. Comm. for Cicar Review (1972): 5-9).
- Van der Spoel, S., 1972a. Notes on the identifications and speciation of Heteropoda (Gastropoda). -Zool. Med., 47 (45): 545-560.
- Van der Spoel, S. & D.G. Troost, 1972. *Atlanta tokiokai*, a new heteropod (Gastropoda). - Basteria, 36 (1): 1-6.
- Van Soest, R.W.M., 1972. Latitudinal variation in Atlantic *Salpa fusiformis* Cuvier, 1804 - Beaufortia 20 (262): 59-68.
- , 1973. The genus *Thalia* Blumenbach, 1789 with descriptions of two new species - Beaufortia 20 (271): 193-212.

Additional unpublished reports and lists:

- "Commanding officers brief report on CICAR-cruises".
- "K.N.M.I.-N.I.O.Z. B.T. Data, H.N.L.M.S. luymes, CICAR 16/17, sept./oct. 1970"
- "Programme and/or Review reports".
- "Records of oceanographic station observations".
- "Summary current measurements H.N.L.M.S. luymes, CICAR 16/17".

