

CRUISE SUMMARY - SP 35/74  
0900 15/10/74 - 0900 19/10/74

Purpose: To sample puerulus larvae of Western rock lobster, to recover and service current meter at site H, and run a G.E.K. transect.

Location: See chart attached.

Personnel: D. Rimmer (C.L.)  
D. Alderson  
F. Boland  
S. Braine  
I. Cook  
B. Phillips

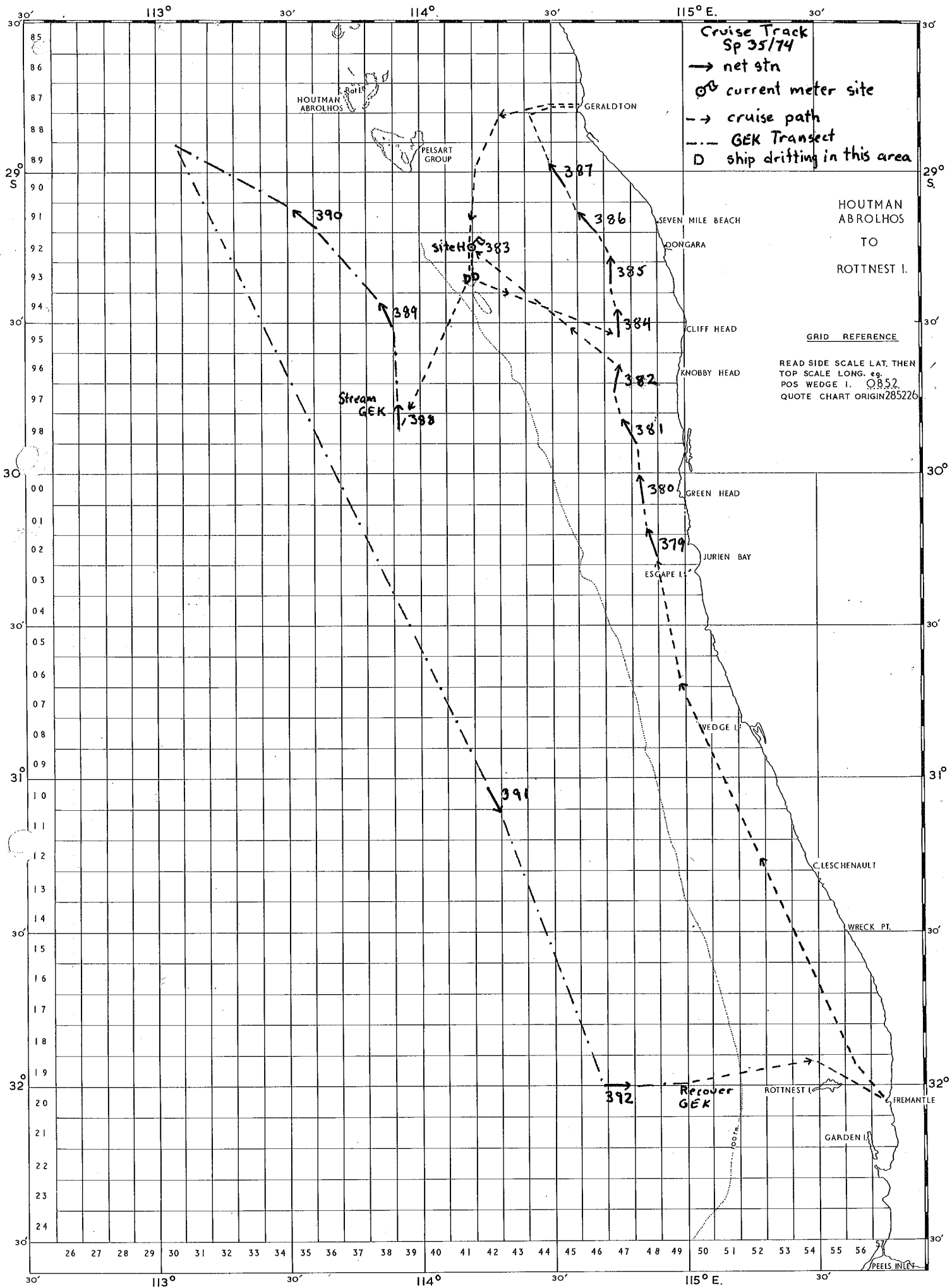
Effective Programme: Net hauls using surface and subsurface samples with 2.5 mm nets, B/T cast, surface hydrology and met. observations - Stns. 379-382, 384-387.  
Surface net hauls with surface hydrology and met. observations.- Stns. 388-392.  
Recover and service current meter at Site H.- Stn. 383.  
Stream G.E.K. as shown on chart.

Equipment Lost: None

Equipment Defective: Poor connection at back of "Rustrak" recorder on moonlight meter caused intermittent record.  
Meter block read-out did not function at times.

Comments and Observations:

A concentration of puerulus larvae was not encountered, therefore plans for a 24 hour diurnal series of samples were abandoned. Otherwise all work was carried out as planned.



# METEOROLOGY LOG

VESSEL SPRIGGLEY CRUISE 35/74 STN. No. 379

YR. 74 MTH. 10 DAY. 15 TIME. 1945 ZONE

LATITUDE 30° 16. LONGITUDE 114 52.

SONIC DEPTH 23 fms. 42. m.

AIR TEMP. WET DRY

WIND DIR. 17. FORCE 05.

WEATHER 02. VISIBILITY 7

CLOUD TYPE AMOUNT 0

SEA DIR. 17 AMOUNT 3.

SWELL DIR. 24 AMOUNT 4.

ATMOS. PRESS. 1023. ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. B/T Cast. + Net haul (Pinnacles Sampling).

Tow. 350° 65 2050 Hauler 35 30° 11' Depth 40m.  
114 51.

# METEOROLOGY LOG

VESSEL *SPRIGHTLY* CRUISE *3874* STN. No. *380*

YR. *74* MTH. *10* DAY. *15* TIME. *2125* ZONE

LATITUDE *30° 06* LONGITUDE *114 50*

SONIC DEPTH *23* fms. *42* m.

AIR TEMP. WET DRY

WIND DIR. *17* FORCE *05*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE AMOUNT *0*

SEA DIR. *17* AMOUNT *3*

SWELL DIR. *24* AMOUNT *3*

ATMOS. PRESS. *1025* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *B/T cast. Puerulus sampling.*  
*Tow. 350 Hauled Posn. 3000 depth. 114.49. 36m.*

# METEOROLOGY LOG

VESSEL *SPRINTLY.* CRUISE *35/74*, STN. No. *381*

YR. *74* MTH. *10* DAY. *15* TIME. *2260* ZONE

LATITUDE *29 54<sup>N</sup>* LONGITUDE *114 48*

SONIC DEPTH *22.* fms. *40.* m.

AIR TEMP. WET DRY

WIND DIR. *14.* FORCE *04.*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE AMOUNT *0*

SEA DIR. *15* AMOUNT *3*

SWELL DIR. *24* AMOUNT *1*

ATMOS. PRESS. *1025.* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *B/T best + Pterodroma Sampling*

*Low 350° Hauled. 29°49'S. 114°42'E. depth 21m 38.4m.*

# METEOROLOGY LOG

VESSEL

"SPRINGM" <sup>35/72</sup>

CRUISE

STN. No.

382

YR. 74 MTH. 10

DAY. 16

TIME.

0110

ZONE

LATITUDE

29° 44' S.

LONGITUDE

114° 44' E

SONIC DEPTH

22

fms.

40.2

m.

AIR TEMP.

WET

DRY

WIND DIR.

12.

FORCE

05.

WEATHER

02

VISIBILITY

7

CLOUD TYPE

AMOUNT

SEA DIR.

12

AMOUNT

3

SWELL DIR.

24

AMOUNT

1

ATMOS. PRESS.

1025.

ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS.

By Cast Pinnacles sampling. Tow 350°.

Haul. 29° 38' S 114° 45' E 22 fm. 40.2 m depth.

# METEOROLOGY LOG

VESSEL

SPRIGHTLY,

CRUISE

35/74

STN. No.

283

YR. 74 MTH. 10 DAY. 16

TIME.

0700

ZONE

LATITUDE

29 15

LONGITUDE

114 12

SONIC DEPTH

29

fms.

53 m.

AIR TEMP. WET

DRY

WIND DIR.

08

FORCE

05

WEATHER

02

VISIBILITY

7

CLOUD TYPE

AMOUNT

0

SEA DIR.

08

AMOUNT

3

SWELL DIR.

24

AMOUNT

3

ATMOS. PRESS.

1025

ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS.

Recovery Service SITE. "H"

# METEOROLOGY LOG

VESSEL *SPRIGHTLY.* CRUISE *35/74.* STN. No. *384*

YR. *74* MTH. *10* DAY. *16.* TIME. *1945.* ZONE

LATITUDE *29° 33'* LONGITUDE *114 45.*

SONIC DEPTH *22.* fms. *40.* m.

AIR TEMP. WET DRY

WIND DIR. *16.* FORCE *06.*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE *-* AMOUNT *0*

SEA DIR. *16.* AMOUNT *4*

SWELL DIR. *24* AMOUNT *1*

ATMOS. PRESS. *1021.2* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *B/T. best Puerulus Sampling.*  
*Tow 350' 1 1/2 hrs. Haul. 29 28. 114 45. Depth 40m.*

# METEOROLOGY LOG

VESSEL *SPRIGHTLY* CRUISE *38/74* STN. No. *385.*

YR. *74* MTH. *10* DAY. *16* TIME. *2145.* ZONE

LATITUDE *29° 22* LONGITUDE *114 43.*

SONIC DEPTH *23* fms. *41.* m.

AIR TEMP. WET DRY

WIND DIR. *15.* FORCE *06.*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE *-* AMOUNT *0*

SEA DIR. *15* AMOUNT *4*

SWELL DIR. *24.* AMOUNT *1.*

ATMOS. PRESS. *1022* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *B/C best & Penulus Sampling*  
*Tow 350° Haul Port. 29° 17' depth 114 43. No*

# METEOROLOGY LOG

VESSEL

BRIGHTLY

CRUISE

3774

STN. No.

386

YR. 74

MTH. 10

DAY. 16

TIME.

2340

ZONE

LATITUDE

29 12

LONGITUDE

114 40.

SONIC DEPTH

22

fms.

40.

m.

AIR TEMP. WET

DRY

WIND DIR.

15.

FORCE

06.

WEATHER

02

VISIBILITY

7

CLOUD TYPE

-

AMOUNT

0

SEA DIR.

15.

AMOUNT

4

SWELL DIR.

24

AMOUNT

1

ATMOS. PRESS.

1022

ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS.

B/F Cast Puerulus Sampling.

Haul. 29°08' S. 114°36' E. 23fm. 40.2. depth.

# METEOROLOGY LOG

VESSEL *"SPRIGHTLY"* CRUISE *35/74* STN. No. *387.*

YR. *74* MTH. *10* DAY. *17.* TIME. *0135.* ZONE

LATITUDE *29° 03' 15* LONGITUDE *114° 33' E.*

SONIC DEPTH *24 fms* fms. *43.9.* m.

AIR TEMP. WET DRY

WIND DIR. *11* FORCE *06.*

WEATHER *02.* VISIBILITY *7*

CLOUD TYPE *-* AMOUNT *-*

SEA DIR. *11* AMOUNT *4.*

SWELL DIR. *24* AMOUNT *1*

ATMOS. PRESS. *1021.5.* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *BT Cast. Pycnocline Sampling. Tow 300'*

*Head. 28° 58' S. 114° 29' E. 24 fms. 43.9 m. depth.*

# METEOROLOGY LOG

VESSEL *SPRIGHTLY* CRUISE *35/74* STN. No. *388*

YR. *74* MTH. *10* DAY. *17* TIME. *2030* ZONE

LATITUDE *29 52* LONGITUDE *113 55.*

SONIC DEPTH *800.* fms. *1463* m.

AIR TEMP. WET DRY

WIND DIR. *05* FORCE *02.*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE AMOUNT *0*

SEA DIR. *99* AMOUNT *1*

SWELL DIR. *24* AMOUNT *2*

ATMOS. PRESS. *1016* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS.

*Puerulus Sampling.*

*Tow 1 1/2 hrs. NORTH. Haul, Posn. 29 47 Depth. 113 55. 800m.*

# METEOROLOGY LOG

VESSEL *SPRIGHTLY,* CRUISE *35/74* STN. No. *389*

YR. *74* MTH. *10* DAY. *17* TIME. *2305* ZONE

LATITUDE *29 31.* LONGITUDE *113 54,*

SONIC DEPTH *330,* fms. *603.* m.

AIR TEMP. WET DRY

WIND DIR. *09.* FORCE *03.*

WEATHER *02* VISIBILITY *7*

CLOUD TYPE AMOUNT *0*

SEA DIR. *99* AMOUNT *1*

SWELL DIR. *24* AMOUNT *2*

ATMOS. PRESS. *1016.5* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS. *Puerulus Sampling*

*Low* *323° - 1 1/2 hrs.* *Haul.* *29 27.* *Depth*  
*113 51. 365 fms. 667.1 m.*

# METEOROLOGY LOG

VESSEL "SPRINTLY" CRUISE 35/74 STN. No. 390.

YR. 74 MTH. 10 DAY. 18 TIME. 0210 ZONE

LATITUDE 29° 11' S. LONGITUDE 113° 37' E.

SONIC DEPTH 465' fms. 850.1. m.

AIR TEMP. WET DRY

WIND DIR. 29. FORCE 02.

WEATHER 02. VISIBILITY 7.

CLOUD TYPE AMOUNT

SEA DIR. 29. AMOUNT 1

SWELL DIR. 24 AMOUNT 2.

ATMOS. PRESS. 1014.5. ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

REMARKS.

Pteropus Sampling ' Tows 308' - 14 hrs.

Haul 29° 08' S. 113° 32' E. 545fm 997m. depth.

# METEOROLOGY LOG

VESSEL *SPRIGHTLY.* CRUISE *3574.* STN. No. *391.*

YR *74* MTH. *10* DAY. *18* TIME. *2025*  
~~2020~~ ZONE

LATITUDE *31 02*  
~~30~~ LONGITUDE *114 15*

SONIC DEPTH *NS* fms. m.

AIR TEMP. WET DRY

WIND DIR. *25* FORCE *05.*

WEATHER *☀ 01.* VISIBILITY *05 7.*

CLOUD TYPE *6* AMOUNT *3.*

SEA DIR. *27.* AMOUNT *4.*

SWELL DIR. *22* AMOUNT *4.*

ATMOS. PRESS. *1015.* ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn)

REMARKS.

*Puerulus Sampling.*

*Tow 160 - 1hr. Haul. Posn <sup>31 07.</sup> 114 18.*

# METEOROLOGY LOG

VESSEL

"SPRIGHTLY"

CRUISE

35/74

STN. No.

392

YR. 74 MTH. 10 DAY. 19

TIME. 0230

ZONE

LATITUDE

32° 00' S.

LONGITUDE

114° 41' E

SONIC DEPTH

810.

fms. 1,481 m.

AIR TEMP. WET

DRY

WIND DIR.

25.

FORCE

05.

WEATHER

02.

VISIBILITY

7.

CLOUD TYPE

AMOUNT

SEA DIR.

27

AMOUNT

3.

SWELL DIR.

22

AMOUNT

4.

ATMOS. PRESS.

1014.5

ANEMOMETER HEIGHT

SET (As calculated; D.R.-observed posn.)

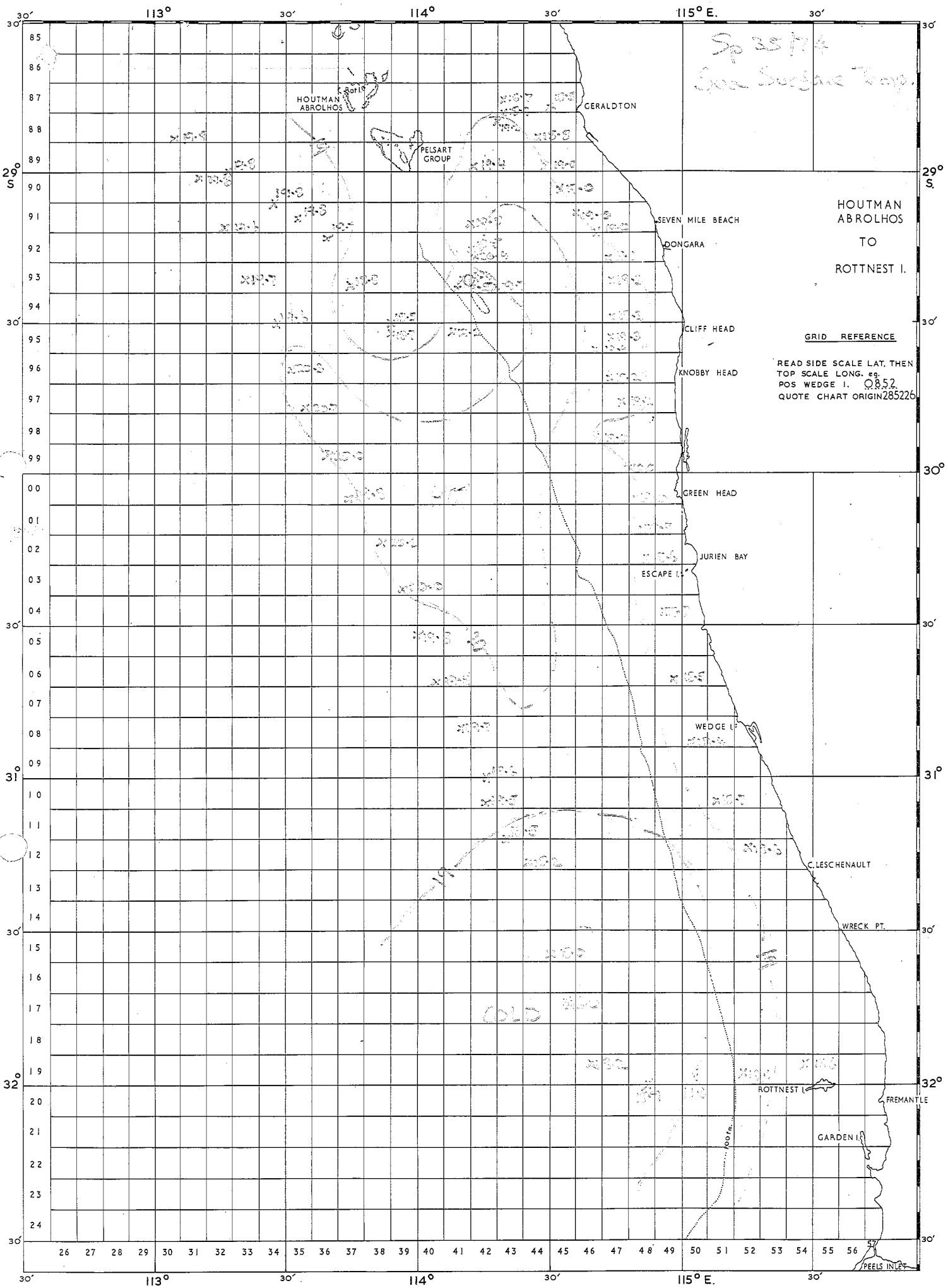
REMARKS.

Pteropus Sampling. Tow 090 1 hr.

Haul,

32° 00' S 114° 47' E.

575 fm. 1,051 m.



Sp 35 714  
Sea Surface Temp.

HOUTMAN  
ABROLHOS  
TO  
ROTTNEST I.

GRID REFERENCE

READ SIDE SCALE LAT. THEN  
TOP SCALE LONG. eg.  
POS WEDGE I. 0852  
QUOTE CHART ORIGIN 285226

OLD

57  
PEEL'S INLET



Sp 35/74

15/10/74

09 depart Ftle

10 31 56 115 38  
 11 31 45 115 32  
 12 31 35 115 26  
 13 31 25 115 22  
 14 31 14 115 15  
 15 31 04 115 08  
 16 30 53 115 02  
 17 30 40 114 58  
 18 30 27 114 56  
 19 30 17 114 53

20 30 16 114 52  
 21 30 11 114 51  
 22 30 04 114 49  
 23 29 59 114 48  
 24 29 52 114 41

Stn. 379 30 17 114 53 30 11 114 59

Stn 380 30 06 114 50 30 00 114 49

Stn 381 29 54 114 48 29 49 114 47

16/10/74

01 30 45 114 46  
 02 29 41 114 44  
 03 29 35 114 41  
 04 29 30 114 30  
 05 29 23 114 10

Stn 382 29 44 114 44 29 58 114 45

06 29 22 114 11  
 07 29 15 114 12  
 08 29 15 114 12  
 09 29 21 114 12

Stn 383 - Current meter site H

drifting TDS till 1535

16 29 29 114 16  
 17 29 27 114 26  
 18 29 32 114 32  
 19 29 33 114 45  
 20 29 32 114 45  
 21 29 28 114 45  
 22 29 21 114 44  
 23 29 17 114 43  
 24 29 12 114 40

Stn 384 29 33 114 45 29 28 114 45

Stn 385 29 22 114 43 29 17 114 43

Stn 386 29 12 114 40 29 08 114 36

17/10/74

01 29 08 114 36  
 02 29 03 114 32  
 03 28 58 114 29  
 04 28 52 114 27  
 05 28 45 114 25  
 06 28 48 114 25  
 07 28 47 114 30

Stn 387 29 03 114 33 28 58 114 29

Geraldton - B. Phillips landed - depart Gtn. 0820

09 28 47 114 29  
 10 28 49 114 18  
 11 28 59 114 13  
 12 29 10 114 12  
 13 29 16 114 13

current meter site H - drifting till 1515

17/10/74

10	29 21	114 11
18	29 31	114 07
19	29 41	114 00
20	29 52	113 55
21	29 50	113 55
22	29 44	113 54
23	29 32	113 54
24	29 30	113 54

1445 Stopped TDS till 1700

Stn 388	29 52	113 55	29 47	113 55
Stream GER				
Stn 389	29 31	113 54	29 27	113 51

18/10/74

01	29 23	113 45
02	29 13	113 39
03	29 09	113 33
04	29 06	113 27
05	29 00	113 17
06	28 53	113 05
07	29 02	113 10
08	29 11	113 16
09	29 21	113 21
10	29 30	113 27
11	29 39	113 31
12	29 47	113 35
13	29 56	113 39
14	30 04	113 43
15	30 14	113 52
16	30 23	113 56
17	30 33	114 00
18	30 41	114 05
19	30 50	114 10
20	31 00	114 15
21	31 05	114 16
22	31 12	114 20
23	31 23	114 25
24	31 35	114 30

Stn 390	29° 11'	113° 37'	29° 08'	113° 32'
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Stn 391	31 02	114 15	31 07	114 18
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19/10/74

01	31 44	114 34
02	31 55	114 39
03	32 00	114 43
04	32 00	114 53
05	31 58	115 02
06	31 57	115 13
07	31 56	115 28
08		

Stn 392	32 00	114 41	32 00	114 47
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0545 bring in GER

Return to cruise file

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Cruise: Sp 35/74

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Thermograph/G.E.K. Summary

Date	Time	Lat.	Long.	Course	Thermograph	G.E.K.	
					°C	Current Speed (Knots)	Current Direction
	0100						
	0200						
	0300						
	0400						
	0500						
	0600						
	0700						
	0800						
	0900						
	1000						
	1100						
	1200						
	1300						
15/10/74	1400	21 14	115 15		18.6		
	1500	" 04	" 08		18.7		
	1600	30 53	" 02		18.4		
	1700	" 40	114 58		18.5		
	1800	" 27	" 56		18.7		
	1900	" 17	" 53		18.6		
	2000	" 16	" 52		18.8		
	2100	" 11	" 51		18.9		
	2200	" 04	" 49		19.0		
	2300	29 59	" 48		19.0		
	2400	" 52	" 41		19.0		
16/10/74	0100	<del>29</del> 29 45	114 46		19.2		
	0200	29 41	" 44		19.2		
	0300	" 35	" 41		19.4		
	0400	" 30	" 30		19.4		
	0500	" 23	" 10		19.5		
	0600	" 22	" 11		19.4		
	0700	" 15	" 12		19.5		
	0800	" 15	" 12		19.5		
	0900	" 21	" 12		19.5		
	1000	" <del>29</del>			19.5		
	1100	" <del>29</del>			19.6		
	1200	" <del>29</del>			19.6		
	1300	" <del>29</del>			19.6		
	1400				19.6		
	1500				19.6		
	1600	29 23	114 16		19.7		
	1700	" 27	" 26		19.6		
	1800	" 32	" 32		19.4		
	1900	" 33	" 45		19.3		
	2000	" 32	" 45		19.3		
	2100	" 28	" 45		19.3		
	2200	" 21	" 44		19.3		
	2300	" 17	" 43		19.1		
	2400	" 12	" 40		19.0		

Cruise: Sp 35 174

Sheet 2 of         

Thermograph/G.E.K. Summary

Date	Time	Lat.	Long.	Course	Thermograph	G.E.K.	
					°C	Current Speed (Knots)	Current Direction
17/10/74	0100	29 08	114 36		19.0		
	0200		32		19.0		
	0300	28 58	29		19.0		
	0400	52	27		18.8		
	0500	45	25		18.7		
	0600	48	25		18.7		
	0700	47	20		18.5		
	0800	General Item			17.8		
	0900	28 47	114 29		18.7		
	1000	" 49	" 18		19.2		
	1100	" 59	" 13		19.4		
	1200	29 10	" 12		19.8		
	1300	29 16	" 13		20.4	8	
	1400				20.8		
	1500				19.8		
	1600	29 21	114 11		20.0		
	1700	" 31			20.3		
	1800	29 31	114 07		19.2		
	1900	" 41	" 00		19.8		
	2000	" 52	113 55		20.0		
2100	" 50	" 55		19.8			
2200	" 44	" 54		(front) 19.6			
2300	" 32	" 54		18.7			
2400	" 30	" 54		18.5			
18/10/74	0100	29 23	113 45		(front) 18.8		
	0200	" 13	" 39		19.7		
	0300	" 09	" 33		19.8		
	0400	" 06	" 27		19.8		
	0500	" 00	" 17		19.8		
	0600	28 53	" 05		19.8		
	0700	29 02	" 10		19.8		
	0800	" 11	" 16		19.6		
	0900	" 21	" 21		19.7		
	1000	" 30	" 27		19.6		
	1100	" 39	" 31		20.3		
	1200	" 47	" 35		20.7		
	1300	" 56	" 39		20.0		
	1400	30 04	" 43		19.8		
	1500	" 14	" 52		20.2		
	1600	" 23	" 56		20.0		
	1700	" 33	114 00		19.8		
	1800	" 41	" 05		19.8		
	1900	" 50	" 10		19.7		
	2000	31 00	" 15		19.6		
2100	" 05	" 16		(front) 19.5			
2200	" 12	" 20		18.5			
2300	" 23	" 25		18.2			
2400	" 35	" 30		18.0			

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Cruise: Sp 35/74

Sheet 3 of           

Thermograph/G.E.K. Summary

Date	Time	Lat.	Long.	Course	Thermograph	G.E.K.	
					°C	Current Speed (Knots)	Current Direction
19/10/74	0100	31 44	114 34		18.0		
	0200	" 53	" 39		18.2		
	0300	32 00	" 43		18.3		
	0400	32 00	" 53		18.7		
	0500	31 58	115 02		19.0		
	0600	" 57	" 13		19.1		
	0700	" 56	" 28		18.6		
	0800				17.6		
	0900				17.8		
	1000						
	1100						
	1200						
	1300						
	1400						
	1500						
	1600						
	1700						
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