

RV KILO MOANA

[illegible]

AT/ON GRUPE WOMENS 341 COSMIC AIC

BERTH USCG FUEL P/M

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE
01															
02															
03															
04															
05															
06															
07															
08		MOORED		PUDDY	12	-	0	-	CALM	-	-	45	43	Cs	3
09															
10															
11															
12															
13															
14															
15															
16															
17															
18	018	012	007	PUDDY	12	320	14	320	SLT	-	-	50	45	Ci	3
19															
20	001	STATION		PUDDY	12	290	10	290	SLT	-	-	48	44	Ci	3
21															
22	001	STATION		CLR	12	290	15	290	SLT	-	-	50	44	Ci	1
23															
24	001	STATION		CLR	12	270	15	270	SLT	-	-	48	43	ST	2
STEAMING TIME		TOTAL STEAMING TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND		
HRS.	7	55		73.4	73.4	1203	75557	13	612						
MIN.		55		MILES	MILES	GAL.	GAL.	GAL.	GAL.						

[illegible]

2512 SS

POSITION BY OBSERVATION

LEGEND

1	CELESTIAL	3	VISUAL
2	ELECTRONIC	4	D.R.

TIME		TYPE OBS.	1200	TIME	TYPE OBS.
LATITUDE			LATITUDE	LATITUDE	
LONGITUDE			LONGITUDE	LONGITUDE	

REMARKS

00-01 J. GULL ON WATERS w/ ABS GRUBS AND MILLS. STAR MOONS PORT SIDE TO USCA FULL P.M. WATERS BAY. STANWAS MOORWY LINES SET AND DOUBLS. ON SWBS POWN (G.WATH), RECIAMUN POTABSE WATER AND TELEPHONE SERVICE FROM STANWAS. 0020 COMPLETED PRODUCE AND LOSS CHECKS / TESTS - ALL SAT. LINES AND WATERS TUBES FREQUENT ROUNDS MRS. OSUS RELIEVED BY CLM J. STALL

0400-0800 J. STALL ON WATTS WITH ABS PERRY & MERRIMAN. MOORED AS BEFORE. ROUNDS MADE. GANGLAY & MARKING LINES CHECKED THROUGHOUT THE WATTS. ALL IN GOOD ORDER. VSL FIRST AT BERTH UNDER CLEAR SKY, W/ CALM WINDS, STEADY BAR. 0745 WATTS RELIEVED BY 3 PM SCANLAND.

REMARKS

PAGE NO. 55

0800-1200 E. SCANLAND ON WATCH W/ABO GOODMAN AND WYLIE. MOORED AS BEFORE. 0800 COLORS RAISED. 1000 PRE-DEPARTURE STABILITY AND DECOMMENT TAW 46 CFR 97.15-7. 1145 IAW 33 CFR 164.25 AND 46 CFR 97.153 ALL PERFORMANCE CHECKS COMPLETE: STABILITY TESTS, BMS, ALL MANS OF COMS, ANAIS/ASSTW, GUN STUNNING, W/15122/GUNVAL ALARM.

12-16 5:14A ON WATCH. MAKE FINAL PREPARATIONS TO GET UNDERWAY, GWS # 1, 2, 4 ONLINE SERVICES DISCONNECTED, GUNVALVE BEING SLOWED. 1202 SINGLE UP. 1205 CAST LINE UNDERWAY ON EMO30N LEG 2. CAPT DERMANY HAS 543 CANN, COME OFF THE DECK AS HAVE TO FOR FINDER RECOVERY. 1227 FINDING ON DECK, U/W. AD-ON/2 DEST. C. SET, STUNNING, VARIOUS CHECKS AND REMS TO DEPART MANS BY. 1237 GET BOAT 16. 1244 ~~GO~~ BOAT 14. 1303 ~~GO~~ WOMMS BY 2/3. 1313 ~~GO~~ ST PAUL 2/3. 1316 ADCHUR DETAIL SLOWED. 1318 ~~GO~~ SP BOAT, SET COURSE 103° TRUE @ 100 RPM. 1332 C/C TO 090° TRUE, INC TO 125 RPM. 1400 C/C TO 120° TRUE. 1440 HUAJ TO IN 110 FA FOR TEST W/144T CAST. 1444 W/144T DEPLOYED @ 905. 57°-39.83N 151° 57.60W. 1500 TEST CAST COMPLETE, SET COURSE 025° TRUE - INVERSE REMS TO 125. 1510 C/C TO 022° TRUE. STUNNING 019 PSC. 022° PSC. 1545 RELINQUISHED BY C/M S. STANLEY *JS*

1600-2000 J. STANLEY ON WATCH WITH ABO PERRY & MERRIMAN AT HELM & LOOKOUT. U/W AS BEFORE. 1704 A/C 012° T16. 1750 K13 TO 115 RPM. 1807 C/C TO 333° PGC 322° PSC 1915 SLOWED TO 35 RPM. 1930 ALL STOP W/STA. L58° 25.0'N 151° 48.4'W. 1935 SECURED SSDG#4. 1945 WATCH RELIEVED BY JIM SCANLAND *JS*

2000-2400 E. SCANLAND ON WATCH W/ABO GOODMAN AND WYLIE ON STATION AS BEFORE. 2015 B/T ON LINE. 2030 CTD DEPLOYED ON DECK 2053. 2055 C/C TO 083° PGC 074° PSC AND 115 TO 100 RPM'S ON WAY TO NEXT STATION. 2148 CTD AP-7 DEPLOYED 2015 CTD ON DECK. 2221 REPOSITION FOR BOND NET TOW. 2236 B/T SECURED, HYDROPHONE OVER. 2238 H/PH ABOARD. 2243 BOND DEPLOYED 58° 25.7N 151° 32. W AT SPD APPROX. 1.5 KTS HDG 270°. 2312 BOND ON DECK. 2315 REPOSITION FOR REPEAT OF CTD AP-7 AT 58° 25.8N 151° 32. W. 2339 CTD DEPLOYED. 2345 WATCH RELIEVED BY A/M J. GAUL. *J. Gaulland*

John Stall

FIRST OFFICER

John Gaulland

MASTER

RV KILO MOANA ZONE DESCRIPTION +0(u) DATE WDS 30 APR 2003
ACTION CRUISE 1CM0309 FOCI CCHZ BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS		
	TRUE	STAND. OR GYRO STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE	AMOUNT
01															
02	084	075	CLR	10	285	17	285	SLT	-	-	1018.2	47	43	-	
03															
04	ON STATION		PCUDY	10	285	17	285	SLT	-	-	1018.1	47	43	AS 3	
05															
06	ON STATION		PCUDY	10	290	18	290	SLT	-	-	1017.1	46	43	P's 3	
07															
08	348	345	PCUDY	10	290	17	290	SLT	-	-	1017.4	46	43	A 3	
09															
10	ON STATION		CLR	12	290	18	290	SLT	-	-	1018.5	47	43	ST 2	
11															
12	ON STATION		CLR	12	285	15	285	SLT	-	-	1018.5	48	44	ST 2	
13															
14	352	352	PCUDY	12	270	17	270	SLT	-	-	1019.0	52	46	CS 3	
15															
16	ON STATION		PCUDY	12	260	11	260	SLT	260	3	1019.5	51	47	CS 4	
17															
18	ON STATION		PCUDY	10	LIGHT AIRS		CAUM	-	-	-	1018.8	52	48	CS 3	
19															
20	730	730	185	PCUDY	10	LIGHT AIRS		CAUM	-	-					
21															
22	385	288	271	PCUDY	10	270	15	270	SLT	260	3	1020.0	47	45	ST 3
23															
24	ON STATION		CLR	10	310	10	310	SLT	-	-	1022.4	47	42	ST 1	
STEAMING TIME	MIN	HR.	TOTAL STEAMING TIME	DAYS	HR.	MIN.	DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND	
13	35		21	30			105.2	170.6	1311	74246		612		7220	

STATION TIME	DETECTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
HR.	MIN.	HR.		DEPARTING	ARRIVING						
10	25										
TOTAL STATION TIME	MIN.	HR.	GYRO	PWD.	PWD.	TYPE	CO.	TYPE	CO.	TREATED	YES NO
14	25										

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 3 VISUAL
2 ELECTRONIC 4 D.R.

TIME	0400	TYPE OBS.	2	TIME	2000	TYPE OBS.	2
LATITUDE	58°28.1'N			LATITUDE	59°01.7		
LONGITUDE	150°56.6'W			LONGITUDE	151°18.3		

REMARKS

00-04 J-CALL ON WATCO. ASS. BRUNSE AND MILLER ASSISTING WITH DZIC OPS, CTD
CAST IN PROGRESS. UNDERWAY ON COURSE KM0309 CCHZ, GWS # 1/2 ONLWZ, 85 ONLWZ
0001 POS: 58°25.6'N 151°32.0'W. SW. REMARKS TO STERNAL PUMPS # 1. 0008 CTD ON DZIC.
0010 SET COURSE 083° TRUE @ 100 RMS FOR STA AP3. 85 SECURE. 0013 85 ONLWZ.
0016 HURT TO @ STA AP3. 0059 CTD DEPLOYED. 0119 85 SECURE. 0121 CTD ON DZIC.
0124 SET COURSE 085° TRUE @ 100 RMS FOR AP4. 0203 85 ONLWZ. 0208 HURT TO @ STA AP4.
0211 CTD DEPLOYED. 0226 CTD ON DZIC. 0237 BOWHD DEPLOYED. 0246 85 SECURE. 0248
BOWHD ON DZIC. 0250 SET COURSE 085° TRUE @ 100 RMS FOR STA APS. 0329 85 ONLWZ.
0335 HURT TO @ APS. 0339 CTD DEPLOYED. 0345 RELINQUISHED BY C/M J. STANLEY

2000-2400 E. SCANLAND ON WATCH W/ABS WYLIE AND GOODMAN. U/M AD BEEFURC
2000K C/LC TO 270° T 270° PGC 243° PSC. 2121 C/LC TO 285° T 288° PGC 271° PSC
2035 C/LC TO 000° T 002° PGC 359° PSC 2335 SLOW FOR CTD SITE KE1, B/T ON LINE.
2345 WATCH RELIEVED BY 2/M J. GAY. ² Scanland

R/V KILO MOANA ZONE DESCRIPTION +8(0) DATE THU 01 MAY 2003

AFT/ON CRUISE KM0309 FOCI 442 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE AMOUNT
01														
02	ON STATION		PCUDY 10		240	19	240	SLT	-	-	1022.7	46	43	AS 3
03														
04	ON STATION		PCUDY 10		255	18	255	SLT	-	-	1023.6	45	43	AS 5
05														
06	ON STATION		PCUDY 10		240	18	240	SLT	-	-	1023.3	44	43	AS CS 5
07														
08	ON STATION		NCST 6		240	22	240	SLT	-	-	1024.0	43	42	AS ST 10
09														
10	ON STATION		CLDY 8		235	22	235	SLT	-	-	1025.5	47	44	ST 9
11														
12	ON STATION		CLDY 8		240	25	240	SLT	-	-	1025.3	48	44	CLEAR ST 8
13														
14	090	090	CLDY 8		260	16	260	SLT	-	-	1026.1	47	45	CS 8
15														
16	143	139	CLDY 10		320	12	320	RIP	340	3	1025.8	52	48	CS 8
17														
18	162	162	BWST 10		320	05	320	RIP	190	4	1025.0	51	49	CS AS 10
19														
20	162	165	OCST 10		LT AIRS	CAIM	-		190	3	1025.0	49	48	AC CS 10
21														
22	ON STATION		CLDY 8		250	5	-	RIP	220	3	1025.0	48	46	CU 10
23														
24	ON STATION		CLDY 8		235	12	-	-	-	-	1024.5	50	47	- 10

STATION TIME		DETECTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED			
HR.	MIN.	HR.	MIN.		GYRO	DEPARTING	ARRIVING		GAL.		GAL.	TREATED	YES	NO
TOTAL STATION TIME		TOTAL DETECTION												
DAYS	HR.	MIN.	HR.	MIN.	DEV.	AFT.	AFT.	CO.	TYPE	CO.	TYPE			
1	05	25												

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 2 ELECTRONIC 3 VISUAL 4 D.R.

TIME 0400	TYPE OBS. 7	1200 2	TIME 2000	TYPE OBS.
LATITUDE <u>59° 03.6' N</u>		LATITUDE <u>58° 42.3' N</u>		
LONGITUDE <u>152° 14.3' W</u>		LONGITUDE <u>152° 24.9' W</u>		

REMARKS

00-04 J-CALL ON WATCH. ARES BRUNST AND MILITARY ASSISTANTS WITH DECK OPERATIONS UNDERWAY ON CRUISE KM0309 LEG 2. HAVE TO IN VICINITY OF STA K61, ROWS #1/2 ONLINE, 0001 POS: 59°14.0'N 152°01.9'W, SWITCHED TO #2 STANBY PUMAS.

2356(30) CTD DEPLOYED. 0014 CTD ON DECK, 0015 SRT CDS 208° TRUE FOR STA K62.

0038 HUAU TO @ STA K62. 0042 CTD DEPLOYED. 0101 CTD ON DECK, 0102 SRT CDS 204° TRUE FOR STA K63. 0130 HUAU TO @ STA K63. 0135 CTD DEPLOYED 0155 CTD ON DECK. 0157 SRT CDS 209° TRUE FOR K64. 0223 HUAU TO @ STA K64. 0226 CTD DEPLOYED. 0247 CTD ON DECK. 0252 BOWHD DEPLOYED. 0307 BOWHD ON DECK.

BT SECONDS. 0311 SRT CDS 209° TRUE FOR STA K65. 0339 HUAU TO @ STA K65.

BT ONLINE. 0342 CTD DEPLOYED. 0345 RECEIVED BY CLM J-STANBY *[Signature]*

0400-0800 J. STAHL ON WATCH WITH ABO'S PERRY & MERRIMAN AFT AT CRANE & WYLIE. U/LW AS BEFORE. 0405 CTD ON DECK. 0408 SET CSE 210° T, 1/3 100 RPM. 0441 ALL STOP ON STA KE6. 159° 01. 0409 N 152° 14. 166 W, CTD IN THE WATER. 0503 CTD ON DECK. 0509 BONGLO IN THE WATER. HDG 240° T, SPD 2.0-2.8 KTS. 0525 BONGLO ON DECK. 0526 SET CSE 220° T, 1/3 100 RPM. 0546 ALL STOP. 0551 1/3 75 RPM, HDG 230° PGC. 0601 ALL STOP ON STA KE7. 0603 CTD IN THE WATER. 158° 58. 93° N 152° 17. 91 W. 0612 CTD 11 PM. 0622 CTD ON DECK. 0623 SET CSE 220° T, 1/3 100 RPM. 0646 N 11 W PT. USHAGAT 1. 0658 T, 2.5 NM, C/LC TO 730° T. 0655 C/LC TO 200° T. 0657 C/LC TO 180° T. 0721 SW PT. USHAGAT 1. 0758 T, 2.15 NM, C/LC TO 150° T. 0726 C/LC TO 180° T. 0737 C/LC TO 130° T. 0748 ALL STOP ON STA SET. WATCH RELIEVED BY 3/m SCANLAND. *for 3/m scanland*

0800-1200 E. SCANLAND ON WATCH W/ ABO'S WYLIE AND GOODMAN. 0755 B/T ON LINE. 0811 CTD SET. DELYD 58° 49. 67 N 152° 20. 28 W. CTD ABORD 0831. 0836 I/S TO 100 RPMs, C/LC TO 209° T. 220° PGC. 177° PSC, HEADING FOR SITE SE2. 0908 CTD SE2 DELYD 58° 47. 02 N 152° 21. 76 W TO 130 MTRS. 0924 CTD ON DECK. A/T SECURED. 0937 BONGLO NET TOW DELYD 58° 47. 03 N 152° 21. 4 W. 0949 ON DECK. 0954 I/S TO 80 RPMs, C/LC TO 182° T. 188° PGC. 148° PSC. 1012 A/T ON LINE. 1028 CTD SE3 DELYD AT 58° 44. 62 N 152° 22. 68 W. 1045 CTD ON DECK. HEAD SOUTH AT 100 RPMs FOR SITE SE4. 1105 SLOW TO POSITION. 1115 CTD DELYD AT 58° 42. 22 N 152° 23. 54 W TO 150 DECIBARS ON DECK. 1132 REPOSITION FOR BONGLO SE4. 1135 WATCH RELIEVED BY 2/m J. GALL. *2. scanland*

12-16 J. GALL ON WATCH. ABO'S BRUNSE AND MILLER ASSISTING WITH GREK OPS. 1140 BONGLO DEPLOYED. 1154 BONGLO ON DECK. 1155 SET CSE 210° T. 100 RPMs FOR STA KE9S. 1226 H2AVE TO @ STA KE5. 1228 CTD DEPLOYED @ SE5. 1243 CTD ON DECK. 1245 SET CSE 020° T. 1255 C/LC TO 090° T. 1257 W. 1258 RPMs TO 100. 1415 HW # 1, 3, 4 ONLINE. 1425 RPMs TO 125. 1428 C/LC TO 143° T. 1430 INCURSED FOR C/LC OFF. 1545 BRUNSE BY C/M J. STAHL *for 3/m scanland*

1600-2000 J. STAHL ON WATCH WITH ABO'S PERRY & MERRIMAN AT HELM & LOOKOUT U/LW AS BEFORE. 1633 SEA U/LW KE 269 T, 9.9 NM, C/LC TO 26 162° PGC 130° PGC. 1644 A/C TO 165° PGC. 1633° PSC. 1645 WATCH RELIEVED BY 3/m SCANLAND. *for 3/m scanland*

2000-2400 E. SCANLAND ON WATCH W/ ABO'S GOODMAN AND WYLIE. U/LW AS BEFORE. 2025 B/T ON LINE, SLOW FOR STATION CBA-9. 2035 #3 M/E SECURED. 2038 CTD CBA-9 DELYD TO DEPTH 77 DECIBARS. 2052 CTD ON DECK. 2054 I/S TO 100 RPMs, C/LC TO 237° T. 240° PGC. 201° PSC. 2138 CTD CBA-8 DELYD AT 57° 30. N 151° 10. W. TO 2152 CTD ON DECK. 2157 BONGLO DELYD AT 57° 30. 07 N 151° 10. 3 W. 2204 BONGLO CBA-8 ON DECK. 2205 PROCEED TO SITE CBA-7 ON A COURSE OF 226° T. 222° PGC. 179° PSC AT 100 RPMs. 2245 CTD CBA-7 DELYD TO DEPTH OF 88 DECIBARS AT 57° 27. 29 N 151° 16. 38 W. 2259 ON DECK. 2300 C/LC TO 219° T. I/S TO 90 RPMs FOR STATION CBA-6. 2326 CTD CBA-6 DELYD AT 57° 25. 71 N 151° 18. 62 W TO DEPTH OF 100 DECIBARS. 2342 WATCH RELIEVED BY 2/m J. GALL. *2. scanland*

J. Stahl

FIRST OFFICER

Debra Amey

MASTER

R/V KILO MOANA ZONE DESCRIPTION +6(0) DATE FRI 02 MAY 2003
AT/ON CRUISE KM0309 FOCI 0662 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION		CLDY	10	240	11	240	SLT	UNDB	4	1024.7	47	45	UNDB
03			CLDY DRZL	10	240	12	240	SLT	UNDB	4	1023.7	46	45	ST 10
04	ON STATION		OCST	10	255	09	255	RIP	140	3	1022.6	47	46	AS 10
05			OCST DRZLE	6	114LT AIRS			Summ	190	4	1022.2	47	46	AS 10
06	ON STATION		CLDY	6	290	8	290	RIP	190	4	1022.2	47	45	AS 10
07			DRZ.	6	290	10	290	RIP	190	3	1020.5	47	45	ST 10
08	ON STATION		OCST	10	295	08	295	RIP	200	5	1019.7	50	47	ST 9
09			CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
10	ON STATION		CLDY	12	305	14	305	SLT	200	4	1016.5	51	49	SLAC 3
11	ON STATION		CLDY	12	305	14	305	SLT	200	4	1016.5	52	49	AC 1
12	ON STATION		CLDY	12	300	14	300	SLT	200	4	1017.0	49	46	ST 2
13			CLDY	12	310	7	-	SLT	-	-	1016.3	49	45	ST 2
14	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
15	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
16	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
17	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
18	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
19	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
20	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
21	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
22	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
23	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6
24	ON STATION		CLDY	12	300	12	300	SLT	200	5	1018.2	53	49	CCS AS 6

STEERING TIME	TOTAL STATION TIME	GYRO	STAND. OR STEER.	WEATHER	VISIBILITY	WIND	SEA	SWELL	TEMP.	CLOUDS
2	15	15	15	CLDY	10	240	11	240	SLT	UNDB

STATION TIME	DETENTION	COMPASS ERROR	DRAFT	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
17	30	4	15	1345	71009	0	612	7078	0

LEGEND 1 CELESTIAL 2 ELECTRONIC 3 VISUAL 4 D.R.

TIME	TYPE OBS.	1200	TIME	TYPE OBS.
0800	2	1200	2	2
LATITUDE 57° 16.8' N		LATITUDE 57° 39.5' N		
LONGITUDE 151° 37.1' W		LONGITUDE 151° 25.5' W		

REMARKS

00-04 SIGAN ON WATCIT, ABS SOUNDST AND MILLER ASSISTING WITH DECK OPERATIONS.
UNDECKWAY ON CRUISE KM0309 124.2, GWS #1/4 ONLINE, ST ONLINE, CTD EAST IN
PROMISS. 2345 (01) CTD ON DECK. 2347 ST SECURED. 2348 BOWHO DEPLOYED. 0001
POS. 57° 25.3' N 151° 19.1' W, SWITCHED TO STERNW PUMPS #1. 0006 BOWHO ON DECK.
0009 ST CRSE 225° T FOR STA CBA 5. 0023 HAVE TO @ STA CBA 5. 0026 CTD DEPLOYED.
0046 CTD ON DECK. 0049 ST CRSE 200° T FOR STA CBA 4. 0100 HAVE TO @ STA CBA 4.
0115 CTD DEPLOYED. 0136 CTD ON DECK. 0141 BOWHO DEPLOYED. 0200 BOWHO ON DECK.
0202 ST CRSE 200° T FOR STA CBA 3. 0217 HAVE TO @ STA CBA 3. 0221 CTD DEPLOYED.
0236 CTD ON DECK. 0237 ST CRSE 225° T FOR CBA 2. 0301 HAVE TO @ STA CBA 2. 0303
CTD DEPLOYED. 0316 CTD ON DECK. 0321 BOWHO DEPLOYED. 0330 BOWHO ON DECK.

0331 SET COURSE 238°T FOR STA CB81. 0345 RELIEVED BY C/M J-STAHN *J-Stahl*

0400-0800 J-STAHN ON WATCH WITH AFS PERRY & MERRIMAN AT CRANE & WINCH & LOOKOUT & HELM. 0415 BEFORE. 0355 STOPPED IN STATION CB81: L 57°16.7'N & 151°37.066'W. CTD IN THE WATER. 0411 CTD ON DECK. MAX DEPTH 60M. 0414 CSE 345°P6C. 1/5 100 RPM. 0505 ALL STOP ON STA CB81: L 57°22.67'N & 151°42.98'W. CTD IN THE WATER. ↓. 0522 CTD ON DECK. MAX DEPTH 64M. 0523 CSE 045°P6C. 1/5 TO 100 RPM. 0550 ALL STOP ON STA CB82: L 57°24.89'N & 151°38.54'W. CTD IN THE WATER ↓. 0605 CTD ON DECK. MAX DEPTH 65M. CSE 047°T. 1/5 100 RPM. 0630 ALL STOP ON STA CB83: L 57°26.42'N & 151°35.44'W. CTD IN THE WATER. 0645 CTD ON DECK. MAX DEPTH 65M. 0646 CSE 041°T. 1/5 100 RPM. 0705 Hove to on STA CB84: L 57°28.03'N & 151°32.72'W. CTD IN THE WATER. ↓. 0727 CTD ON DECK. MAX DEPTH 133M. CSE 048°T. 040°P6C. 1/5 100 RPM. 0745 Hove to on STA CB85. WATCH RELIEVED BY 3/m SCANLAND. *J-Stahl* c/m

0800-1200 E. SCANLAND ON WATCH W/ AFS WYLIE AND GOODMAN. CTD CB85 DPLYD AT 0748 AT POSITION 57°29.22'N 151°30.49'W TO DEPTH 155 DECIBARS. 0810 ON DECK. C/C TO 46°T 43°P6C. 39°P5C AND 100 RPM. HEADING FOR SITE CB86. 0835 CTD CB86 DPLYD AT 57°30.67'N 151°28.18'W TO 140 DEC. 0855 CTD ON DECK. REPOSITION 1.2 NM AWAY FOR SITE CB87. 0922 CTD CB87 DPLYD AT 57°31.5'N 151°26.6'W. ON DECK 0935 0938 ENROUTE TO SITE CB88 52°T 47°P6C. 43°P5C. 100 RPM. 1016 CTD CB88 DPLYD AT 57°34.3'N 151°21.2'W TO 68 DEC. 1029 CTD SECURED. COURSE 56°T 55°P6C. 51°P5C AND 100 RPM. TO SITE CB89. 1103 CTD CB89 DPLYD AT 57°36'N 151°17.3'W 1114 CTD ON DECK. 1119 B/T SECURED. 1125 COURSE 306°T 308°P6C. 297°P5C AND 100 RPM. ENROUTE TO CB89. 2345 WATCH RELIEVED BY 2/m J. GALL. E. SCANLAND

12-16 J-STAHN ON WATCH. AFS BOWEN AND MILLON AT HELM/LOOKOUT. U/W TO STA CB89 AS BEFORE. 1238 Hove to on STA CB89. 1240 CTD WINCH MALFUNCTION REPORTED. 1250 DESECISION MADE TO DISCONTINUE WIRE. STANDING BY. 1545 RELIEVED BY C/M J-STAHN *J-Stahl*

1600-2000 J-STAHN ON WATCH WITH AFS PERRY & MERRIMAN AFT AT WINCH & CRANE. U/W AS BEFORE. D.L.W. 1600 MANEUVERING TO RETURN TO STA. 1406 205°T. 1/5 TO 50 RPM. 1615 ALL STOP. 1622 SET HOB 6770°T. 1/3 TO 100 RPM. 1633 C/C TO 110°T. R/S TO 50 RPM. 1652 Hove to on STATION. 1707 CTD IN THE WATER CB89 L 57°42.02'N & 151°34.36'W. 1720 CTD ON DECK. 1721 SET CSE. 215°T. 1/5 100 RPM. 1752 Hove to on STATION CB88 L 57°40.23'N & 151°37.97'W. 1810 CTD ON DECK. 1817 HOB 285°T. SPD 2.0-3.0 kts. 1838 BONGO IN WATER. 1823 BONGO ON DECK. 1824 SET CSE 704°T. 1/5 TO 100 RPM. 1857 Hove to on STA CB87 L 57°36.94'N & 151°41.36'W. 3/m VIB. EXPECTED LIFERAFTS AND LAUNCHING APPARATUS. RESCUE BOAT STAYED OVERHEAT ALARM AFTER 5 MINUTES IN NEUTRAL. INSPECTIONS JAW 46 GR. 199.190. 1917 CTD ON DECK. CSE SET: 710°T. 1/5 TO 100 RPM. 1931 Hove to on STA CB86 L 57°35.73'N & 151°43.70'W. CTD IN THE WATER. 1945 WATCH RELIEVED BY 3/m SCANLAND. *J-Stahl* c/m

2000-2400 E. SCANLAND ON WATCH W/ AFS WYLIE AND GOODMAN. 1947 CTD ON DECK (115 MTRS WIRE PAID OUT). 1956 BONGO CB86 DPLYD AT 57°35.44'N 151°43.4'W. 2010 BONGO ABOARD. 2015 CIRCLE AROUND A FLOAT THROUGHT TO BE MISSING SCIENTIFIC GEAR. 2030 RESUME LINE. 230°T FOR SITE CB85. 90 RPM. 2050 CTD CB85 DPLYD AT 57°33.71'N 151°45.04'W TO 143 DEC. ALL CTD ON DECK. HEAD SOUTH 2.2 NM TO SITE CB84. 2116 BONGO DPLYD AT 57°33.83'N 151°45.06'W. 2134 BONGO ABOARD. 2140 B/T SECURED PER ENGINEER REQUEST. HEAD SOUTH 2.2 NM TO SITE CB84. 2205 B/T ON LINE. CTD CB84 DPLYD AT 57°31.79'N 151°47.02'W TO 128 DECIBARS. 2123 CTD ON DECK. C/C TO 204°T 207°P6C. 165°P5C AND 1/5 TO 80 RPM. FOR SITE CB83. 2255 CTD CB83 DPLYD AT 57°30.28'N 151°49.01'W TO 89 DECIBARS. 2315 BONGO ABOARD. 2310 CTD ABOARD. 2341 DPLYD AT 57°30.39'N 151°49.1'W. 2326 BONGO ABOARD. SET COURSE 193°T. SPD 100 RPM. FOR SITE CB82. 2341 WATCH RELIEVED BY 2/m J. GALL. E. SCANLAND

J-Stahl

FIRST OFFICER

J. Perry

MASTER

WEATHER OBSERVATIONS

STATION TIME		DETENTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED	LUB. OIL RECEIVED	FRESH WATER RECEIVED	
HR.	MIN.	HR.	MIN.		DEPARTING	ARRIVING			QAL.	QAL.
18	45			GYRO	1.5 E					
TOTAL STATION TIME		TOTAL DETENTION		STAND.	PWD.	PWD.	TYPE	CO.		
DAYS	HR.	MIN.	HR.	MIN. <th>DEV.</th> <th>AFT.</th> <th>CO.</th> <th></th> <th></th> <th></th>	DEV.	AFT.	CO.			
2	17	45	4	15						

POSITION BY OBSERVATION				LEGEND			
		1200		1		2	
		TYPE OBS. 2		CELESTIAL		ELECTRONIC	
				3		4	
				VISUAL		D.R.	
SR 6612							
SR 2156							
TIME 0400		TYPE OBS. 2	1200	2	TIME 2000	TYPE OBS. 2	
LATITUDE 57° 39.0' N			LATITUDE 57° 52.5' N		LATITUDE 58° 12.6		
LONGITUDE 157° 04.7' W			LONGITUDE 151° 36.1' W		LONGITUDE 151° 20.1		

REMARKS

EO-04 J. HALL ON WATCH. ABS GROUND AND MILLER ASSISTING WITH DECK OPERATIONS.
UNDERWAY ON CRUISE KM0309 LEG 2. HWS # 1/Y ONLINE, GT ONLINE, U/W TO STA
CSC 2. 2346(02) GT SECUED. 0001 POS: 57°26.8'N 151°52.4'W, SWITCHING TO STANBY
PUMPS # 2. 0002 HALL TO @ STA CSC 2, 0007 STD DEPLOYED. 0022 STD ON DECK.
0023 STD CRSE 203°T FOR STA CSC 1. 0101 HALL TO @ STA CSC 1, 0103 STD DEPLOYED.
0117 STD ON DECK. 0123 SONAR DEPLOYED. 0132 SONAR ON DECK. 0135 STD CRSE 000°T @
100 RPMs FOR STA CC 1. 0245 C/C TO 325° TRUE. 0308 C/C TO 295°T. 0315 GT ONLINE
0328 HALL TO @ STA CC 1, 0330 STD DEPLOYED. 0346 STD ON DECK. 0347 RELIABLE BY
C/M J. STANLEY

REMARKS

PAGE No. 6

0400-0800 J. STAHL ON WATCH WITH ABO PERRY & MERRIMAN AFT AT ORDNAL 9 WINCH. U/L AS BEFORE.
 0356 Hdg 010°G, SPD 2.0 KTS, BONGGO NET IN THE WATER. 0406 NET ON DECK. 0407 Hdg 020°G, SPD 75 RPM.
 0419 HOLE TO ON STA CC2, L 57°39.58'N X 152°02.98'W. CTD IN THE WATER. 0436 CTD ON DECK. MAX
 DEPTH 100M. 0443 BONGGO NET IN THE WATER. Hdg 335°G, 2.0 KTS. 0456 NET ON DECK. Hdg 085°G,
 100 RPM. 0517 HOLE TO ON STA CC3, L 57°40.28'N X 152°00.46'W. CTD IN THE WATER. 0541 CTD ON
 DECK. MAX DEPTH 198M. 0547 SET CSE 075°T, 1/5 100 RPM. 0600 HOLE TO ON STA CC4, L 57°40.83'N
 X 151°58.08'W. CTD IN THE WATER. 0622 CTD ON DECK. M. DEPTH 185M. 0630 Hdg 140°G, SPD 2.5-3.0 KTS.
 BONGGO NETS IN WATER. 0654 B. NET ON DECK. 0655 CSE 000°PSC, 1/5 100 RPM. 0714 HOLE TO ON STA CC5,
 L 57°41.55'N X 151°56.48'W, CTD IN THE WATER. 0733 CTD ON DECK. M. DEPTH 171M. 0755 SET CSE 080°
 PSC, 1/5 35 RPM. 0745 WATCH RELIEVED BY 3/M SCANLAND. *for steel c/w*

0800-1200 E. SCANLAND ON WATCH W/ABO WYLIE AND GOODMAN. 0813 B/T
 ON LINE. 0824 CTD DEPLOYD AT 57°42.0'N 151°54.37'W. 0835 CTD CCG ON BOARD.
 0843 BONGGO CCG DEPLOYD AT 57°41.95'N 151°54.39'W. 0852 BONGGO SECURED.
 0855 HEAD 61°T 52°PSC 48°PSC AT 100 RPMs FOR SITE CCG. 0930 CTD CCG
 DEPLOYD AT 57°43.08' 151°49.63' TO 53 DECIBARS. 0942 CTD ON DECK. 0944
 COURSE 60°T 55°PSC ENROUTE TO SITE CCG. 100 RPMs. 1025 CTD CCG DEPLOYD
 AT 57°44.99'N 151°43.03'W TO 53 DECIBARS. B/T SECURED. 1035 CTD ON DECK.
 1036 BONGGO CCG DEPLOYD AT 57°45.05'N 151°42.9'W. 1048 BONGGO ABOARD. 1050
 C/L TO 034°T. 0235°PSC 023°PSC AND 100 RPMs FOR START OF NEXT LINE. MA8
 1145 WATCH RELIEVED BY 2/M J. GALL. E. SCANLAND

12-16 J. GALL ON WATCH. ABO SENCOT AND MILLER ASSISTING WITH DECK OPERATIONS.
 1155 HOLE TO @ STA MA8, 1157 CTD DEPLOYED. 1211 CTD ON DECK. 1213 SET CSE 352°T
 FOR STA MA7. 1230 HOLE TO @ STA MA7. 1232 CTD DEPLOYED. 1247 CTD ON DECK. 1254 BONGGO
 DEPLOYED. 1302 BONGGO ON DECK. 1303 SET CSE 320°T FOR STA MA6. 1322 HOLE TO @ STA
 MA6. 1323 CTD DEPLOYED. 1340 CTD ON DECK. 1341 SET CSE 329°T FOR MA5. 1355 HOLE
 TO @ STA MA5. 1357 CTD DEPLOYED. 1417 CTD ON DECK. 1422 BONGGO DEPLOYED. 1434 BONGGO ON
 DECK. 1436 SET CSE 342°T FOR MA4. 1500 HOLE TO @ STA MA4. 1502 CTD DEPLOYED. 1525
 CTD ON DECK. 1526 SET CSE 339°T FOR MA3. 1545 RELIEVED BY C/M J. STANLEY *JG*

1600-2000 J. STAHL ON WATCH WITH ABO PERRY & MERRIMAN AT HELM & LOOKOUT. U/L AS BEFORE.
 1550 PERRY & MERRIMAN AFT AT ORDNAL WINCH. RESCUE BOAT OPERATED AND IN GOOD
 WORKING ORDER AS PER CFR 46 199.190. 1554 HOLE TO ON STA MA3, CTD IN THE WATER L 58°
 04.22'N X 151°45.63'W. 1622 CTD ON DECK. MAX DEPTH 168M. 1627 BONGGO NETS STREAMED AFT. 1649
 BONGGO NETS ON DECK. 1650 SET CSE 342°T, 1/5 100 RPM. 1727 HOLE TO ON STA MA2, CTD IN THE WATER L 58°02.31'N
 X 151°47.56'W. 1743 CTD ON DECK. 1745 SET CSE 325°T, 1/5 90 RPM. 1759 HOLE TO ON STA MA1. 1759 CTD
 IN THE WATER L 58°08.27'N X 151°48.88'W. S. FT. WARMOT CAPE @ 317.5°T, 7.3 NM. 1812 CTD ON DECK,
 M. DEPTH 67M. Hdg 175°G, SPD 2.0 KTS. 1817 BONGGO STREAMED AFT. 1822 BONGGO AT SURFACE. 1823 BONGGO
 SECURED. 1824 SET CSE 071°T, 1/5 TO 100 RPM. 1945 WATCH RELIEVED BY 3/M SCANLAND. *for steel c/w*

2000-2400 - E. SCANLAND ON WATCH W/ABO WYLIE AND GOODMAN. U/L AS BEFORE.
 2032 A/T ON LINE. 2044 CTD USTA DEPLOYD AT 2044 58°14.17'N 151°10.8'W TO 67 DEC.
 2058 CTD ON DECK. 2100 STEERING 58°T 54°PSC 49°PSC AT 100 RPMs FOR SITE USTA.
 2132 CTD USTA DEPLOYD AT 58°15.96'N 151°06.06'W TO 65 DECIBARS. CTD ON DECK.
 2147. 2150 HEAD FOR USTA 2030 ARRIVE ON STATION; RETURN TO USTA DUE TO
 EQUIPMENT PROBLEMS ON LAST TWO STATIONS. COURSE 237°T 237°PSC 197°PSC AT
 100 RPMs. 2311 CTD USTA (RE) DEPLOYED AT 58°14.1'N 151°11.1'W TO 106 DECIBARS.
 2338 CTD ON DECK. 2340 COURSE 51°T 49°PSC 45°PSC AND 90 RPMs TO REPEAT
 SITE USTA. 2345 RELIEVED BY 2/M J. GALL. E. SCANLAND

J. Stahl

FIRST OFFICER

Shirley

MASTER

R/V KILO MOANA ZONE DESCRIPTION +6(U) DATE SUN 04 MAY 2003
AT/ON CRUISE KM0309 FOCI 0242 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.		DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION		OCST P.FOG	6	155	08	155	SLT	UNDB	-		45	ST	10
03														
04	ON STATION	034	OCST P.FOG	6	065	09	065	SLT	UNDB	-	1007.1	43	ST	10
05														
06	ON STATION		OCST P.FOG	3	080	15	080	SLT	-	-	1006.0	44	ST	10
07														
08	ON STATION		OCST P.FOG	3	080	15	080	SLT	-	-	1006.5	46	ST	10
09														
10	ON STATION		CUDY	8	195	18	195	SLT	-	-	1005.5	45	ST	10
11														
12	191	188	CUDY	8	190	15	190	SLT	-	-	1006.2	45	ST	10
13														
14	ON STATION		OCST	8	160	16	160	SLT	200	5	1006.7	49	ST	10
15														
16	ON STATION		OCST	8	185	16	185	MOD	200	5	1006.8	50	ST	10
17														
18	ON STATION		OCST	8	200	17	200	SLT	200	5	1006.6	48	ST	10
19														
20	ON STATION		OCST OKRAE	6	205	18	205	SLT	200	5	1007.5	47	ST	10
21														
22	ON STATION		CUDY	6	210	20	210	SLT	-	-	1008.4	45	ST	10
23														
24	018	016	CUDY	6	225	15	225	SLT	-	-	1009.2	45	ST	10

STEAMING TIME		TOTAL STATION TIME		TOTAL DISTANCE		FUEL OIL CONSUMED		FUEL OIL ON HAND		LUB. OIL CONSUMED		LUB. OIL ON HAND		FRESH WATER CONSUMED		FRESH WATER ON HAND	
HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.
4	00	1	18	104.1	581.4	1696	68269	68269	68269	0	0	612	0	0	0	6662	0

STATION TIME		DETENTION		COMPASS ERROR		DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.	HR.	MIN.
20	00												

TOTAL STATION TIME		TOTAL DETENTION		STAND.		P.W.D.		TYPE		CO.		TREATED		YES		NO	
DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.	DAYS	HR.
3	13	4	15														

POSITION BY OBSERVATION				LEGEND			
SR 0600		SS 2158		1	CELESTIAL	3	VISUAL
				2	ELECTRONIC	4	D.R.

TIME 0400		TYPE OBS. 2		TIME 2000		TYPE OBS. 2	
LATITUDE 58°34.3'N		LATITUDE 58°07.6'N		LATITUDE 57°39.6'		LATITUDE 57°39.6'	
LONGITUDE 150°39.1'W		LONGITUDE 150°46.0'W		LONGITUDE 150°28.5'		LONGITUDE 150°28.5'	

REMARKS

00-04 J-GAN ON WATER. ABS BARGE AND MILLER ASSISTING WITH DECK OPERATIONS.
UNDERWAY ON CRUISE KM0309 LEG 2. GWS # 1/4 ONLY, U/W TO STA USF 2 @ 90 RPM.
0001 POS; 58°15.9'N 151°06.0'W, SWIRCH TO #1 STEERING PUMPS, 0004 HANG TO @
STA USF 2. 0008 CTD DEPLOYED. 0024 CTD ON DECK, 0025 SET CRSE 050° FOR STA USF 3.
0018 HANG TO @ STA USF 3, 0050 CTD DEPLOYED. 0109 CTD ON DECK. 0110 SET CRSE 045°
FOR STA USF 3. 0122 HANG TO @ STA USF 4. 0126 CTD DEPLOYED. 0141 CTD ON
DECK. 0142 SET CRSE 029° FOR STA USF 5. 0206 HANG TO @ STA USF 5. 0207 CTD DEPLOYED.
0220 CTD ON DECK. 0221 SET CRSE 034° FOR STA USF 1 @ 100 RPM. STEERING 034° PAC
0300 PAC. 0345 RELINQUISHED BY C/M J. STALLER

REMARKS

PAGE No. 13

0400-0800 J STAHLL ON WATCH W/ ABB PERRY & MERRIMAN AT HELM & LOOKOUT. W/ ABB BEFORE. 0430 ABB AFT TO ORANE/WINCH. 0435 HOLE TO ON CTD STA P801. 0457 CTD IN THE WATER L 58° 39.02' N λ 150° 33.75' W. 0519 CTD ON DECK, MAX DEPTH 217M. 0520 SET CSE 185° T, 1/5 100 RPM. 0557 HOLE TO ON STA STD 2, CTD IN THE WATER L 58° 33.94' N λ 150° 34.44' W. 0619 CTD ON DECK, M. DEPTH 168M. 0620 CSE 707° T, 1/5 100 RPM. 0651 HOLE TO ON STA. 0658 CTD STD 3 IN THE WATER L 58° 29.58' N λ 150° 36.94' W. 0708 CTD AT MAX DEPTH 85M. 0714 CTD ON DECK. 0715 SET CSE 200° T, 1/5 100 RPM. 0745 WATCH RELIEVED BY 3/M SCANLAND. *John Scanland*

0800-1200 E. SCANLAND ON WATCH W/ ABB WYLIE AND GOODMAN. 0753 CTD STD 4 DPLYD TO 70 DECIBARS AT 58° 25.17' N 150° 38.85' W. 0806 CTD ON DECK. SET COURSE 193° T 196° PGC 157° PSC AT 100° RPM. FOR SITE STD 5. 0856 CTD STD 5 DEPLOYED AT 58° 19.39' N 150° 41.74' W. 0912 CTD ON DECK. 0915 100 RPM. VARIOUS CSEs TO STD 6. 1009 CTD STD 6 DPLYD AT 58° 15.08' N 150° 42.5W. 1021 CTD ON DECK. BIT SECURED. 1025 BON60 STD 6 DPLYD AT 58° 14.94' N 150° 42.77' W. 1035 ON DECK. 1036 COURSE 182° T 176° PGC 140° PSC AT 90 RPM. FOR SITE STD 7. 1102 CTD STD 7 DPLYD AT 58° 11.93' N 150° 44.44' W. 1120 ON DECK. 1139 WATCH RELIEVED BY 2/M J. GALL. *J. Atanland*

12-16 J. GALL ON WATCH. ABB BRUNST AND MILLER ASSISTING W/ DECK OPERATIONS. 1153 HOLE TO @ STA STD 8. 1157 CTD DPLYD. 1219 CTD ON DECK. 1224 BON60 DEPLOYD. 1239 BON60 ON DECK. 1240 SET CSE 188° T FOR STA STD 9. 1254 HOLE TO @ STA STD 9. 1305 CTD DPLYD. 1325 CTD ON DECK. 1326 SET CSE 194° T FOR STD 10. 1357 HOLE TO @ STA STD 10. 1358 CTD DPLYD. 1417 CTD ON DECK. 1420 SET SECURED. 1421 BON60 DPLYD. 1436 BON60 ON DECK. 1437 SET CSE 191° T FOR STA STD 11. 1509 HOLE TO @ STA STD 11. 1510 CTD DPLYD. 1527 CTD ON DECK. 1528 SET CSE 186° T FOR STA STD 12. RELIEVED BY 2/M J. STAHLL. *John*

1600-2000 J. STAHLL ON WATCH WITH ABB PERRY & MERRIMAN AFT. AFT PAT CABLE & WINCH. W/ ABB BEFORE. 1605 HOLE TO ON STA STD 12 L 57° 51.56' N λ 150° 52.00' W. CTD IN THE WATER. 1623 CTD ON DECK, M. DEPTH 77 DB. SET CSE 191° T, 1/5 TO 100 RPM. 1728 HOLE TO ON STA STD 13. 1732 CTD IN THE WATER L 57° 43.53' N λ 150° 54.99' W. 1747 CTD ON DECK, MAX DEPTH 76 DB. 1754 BON60 NETS STREAMED AFT. L 57° 43.35' N λ 150° 54.96' W. 1755 HOLE TO @ STA STD 13. 1805 BON60 NETS ON DECK L 57° 43.12' N λ 150° 55.08' W. 1807 SET CSE 127° T, 1/5 TO 100 RPM. 1909 CTD @ 072° T. 1945 HOLE TO ON STA P801A. WATCH RELIEVED BY 3/M SCANLAND. *John Scanland*

2000-2400 E. SCANLAND ON WATCH W/ ABB GOODMAN AND WYLIE. 1959 CTD P801A DPLYD AT 57° 39.63' N 150° 28.54' W TO 95 DECIBARS. 2020 CTD ON DECK. 2022 BIT SECURED. COURSE SET FOR P8013. 358° T. 350° PGC. 343° PSC AT 100 RPM. 2137 CTD P8013 DPLYD AT 57° 48.55' N 150° 29.98' W TO 88 DECIBARS. 2152 ON DECK. 2156 BON60 DPLYD AT 57° 48.25' N 150° 30.34' W. BON60 ON DECK. 2206 SET COURSE 222° T 17° PGC 11° PSC AT 100 RPM. FOR SITE P8012. 2253 CTD P8012 DPLYD AT 57° 52.68' N 150° 27.52' W TO 109 DB. 2309 CTD ON DECK. 2314 BON60 DPLYD AT 57° 52.39' N 150° 27.97' W. 2325 ON DECK. HEAD FOR STA P8011 018° T 016° PGC 010° PSC AT 100 RPM. 2339 RELIEVED BY 2/M J. GALL. *J. Atanland*

* LATE ENTRY: LIFERAFTS VIS INSPECTED AT 1900 BY 3/M JAW 46 CFR 199.190 (e)(1) MONTHLY. *J. Atanland*

John Scanland

FIRST OFFICER

John Scanland

MASTER

RV KILO MOANA ZONE DESCRIPTION +6(V) DATE MON 05 MAY 2003
ACTION CRUISE 16M0309 FOCI UCA 2 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION		OCSF BZCL	8	255	14	255	SLT	UNOS	5	1009.7	45	ST	10
03														
04	ON STATION		OCSF BZCL	8	315	18	315	MOD	UNOB	5	1010.9	44	ST NB	10
05														
06	018	015	011	OCSF	315	21	315	MOD	200	6	1011.0	44	SCAC	10
07														
08	111	107	090	OCSF	305	19	305	MOD	200	6	1012.0	44	SCAS	10
09														
10	ON STATION		CLDY	8	290	20	290	MOD	220	5	1014.3	44	SC	9
11														
12	ON STATION		CLDY	10	2	15	275	SLT	220	4	1015.0	45	CU	7
13														
14	209	206	161	OCSF	265	17	265	MOD	250	6	1016.1	50	ASU	10
15														
16	188	188	180	CLDY	275	20	275	MOD	250	6	1016.2	49	CLMS ACST	7
17														
18	ON STATION		CLDY	10	280	14	280	SLT	250	6	1016.0	49	ACU	4
19														
20	ON STATION		PUCLY	10	280	12	280	SLT	250	5	1016.0	45	ACUS	4
21														
22	ON STATION		PUCLY	12	265	15	265	SLT	250	5	1016.6	44	ST	4
23														
24	ON STATION		PUCLY	10	275	15	-	-	-	-	1017.2	44	ST	5

STREAMING TIME	HRS.	TOTALING STATION		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
		MIN.	MIN.	MILES	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
2	20	1	20	20	111.6	693.0	1253	62	550		6763

STATION TIME	HRS.	MIN.	DETENTION	COMPASS ERROR		DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
				GYRO	QTY	DEPARTING	ARRIVING	GAL.	GAL.	GAL.	GAL.	TREATED	YES NO
21	40												
TOTAL	STATION TIME	MIN.	MIN.	TOTAL	DETENTION	PWD.	PWD.	TYPE	CO.	TYPE	CO.		
4	1	20	4	15									

POSITION BY OBSERVATION

TIME	DATE	TYPE OBS.	TIME	DATE	TYPE OBS.
2100	58°04.1'N	2	2000	57°45.1'N	2
LATITUDE	150°21.3'W		LATITUDE	150°11.6'W	
LONGITUDE			LONGITUDE		

REMARKS

00-04 J. CALL ON WATCH. ABS BACKST AND MILLER ASSISTING WITH DECK OPERATIONS.
UNDERWAY ON CRUISE 16M0309 UCA 2. GWS #1/4 ONLINE - U/L TO STA PSA 11 @ 100 RPM.
SWITCHED TO #2 STEERING PUMPS. 0001 POS: 57°55.7'N 150°26.2'W. 0007 HAVZ TO @ STA
PSA 11. 0012 CID DEPLOYED. 0034 CID ON DECK. 0036 ST CRSE 014°T FOR STA PSA 10. 0113 HAVZ
TO @ STA PSA 10. 0115 CID DEPLOYED. 0138 CID ON DECK. 0142 BATHO DEPLOYED. 0159 BOWID ON
DECK. 0204 ST CRSE 015°T FOR STA PSA 9. 0245 BT ONLYWZ. 0254 HAVZ TO @ STA PSA 7.
0257 CID DEPLOYED. 0323 CID ON DECK. 0327 ST CRSE 019°T FOR STA PSA 8. 0345 HAVZ
TO @ STA PSA 8. RELIQUED BY C/M J. STALL *[Signature]*

REMARKS

PAGE No. 10

0400-0800 J. STAHL ON WATCH WITH ABS PERRY & MERRIMAN AT HELM & LOOKOUT. U/L AS BEFORE.
 0351 Hove to on STA PBA8, CTD IN THE WATER L 58° 09. 06 N λ 150° 21. 34 W. 0413 CTD ON DECK. MAX DEPTH
 164 DB. 0416 HOG 320° T, SPD 2.0 KTS, B. NETS STREAMED AFT. 0433 B. NETS ON DECK. C/C TO 019° T, 1/5 100 RPM.
 0501 Hove to on STA PBA7, L 58° 13. 79 N λ 150° 19. 98 W. CTD IN THE WATER. 0514 SPD 3 ON LINE. SPD 6.1
 SECURED FOR SERVING. 0523 CTD ON DECK. 0528 B. NETS IN THE WATER. HOG 215° T, SPD 2.0 KTS. 0538 B.
 NETS ON DECK. 0540 SET CSE 018° T, 1/5 100 RPM. 0613 Hove to on STA PBA6, L 58° 17. 47 N λ 150° 17. 98 W. CTD
 IN THE WATER. 0629 CTD ON DECK, M. DEPTH 50 DB. 0632 SET CSE 010° T, 1/5 TO 100 RPM. 0709 Hove to on STATION
 PBA5, L 58° 21. 86 N λ 150° 16. 91 W. CTD IN THE WATER. 0723 CTD ON DECK. 0724 SET CSE 111° PAC 090° PAC
 1/5 TO 100 RPM. 0745 WATCH RELIEVED BY 3/m SCANLAND *John Stahl*

0800-1200 E. SCANLAND ON WATCH W/ABS GOODMAN AND WYLIE U/LW AS
 BEFORE. 0949 ON STA STB1. CTD DPLYD AT 58° 13. 37 N 149° 36. 53 W TO 64 DB.
 1000 ON DECK. 1005 BONGOO DPLYD AT 58° 13. 19 N 149° 36. 84 W. 1012 ON DECK.
 HEAD 203° T 200° PGC 158° PSC AT 95 RPMs FOR SITE. STB2. 1044 CTD STB2
 DPLYD AT 58° 10. 41 N 149° 40. 55 W. 1058 ON DECK. HEAD 208° T 203° PGC 162° PSC
 FOR STA STB3 AT 100 RPMs. 1132 CTD STB3 DPLYD AT 58° 07. 2 N 149° 44. 24 W.
 1145 RELIEVED BY 2/m J. GALL. *E. Scanland*

12-16 J. GALL ON WATCH. ABS BONGOO AND MIDGE ASSISTING WITH DECK OPERATIONS.
 CTD CASC IN BONGOO @ 544 STB3. 1201 CTD ON DECK. 1208 BONGOO DROPOYS. 1214 BT
 SZCWDYS. 1236 BONGOO ON DECK. 1239 SET CASC 192° T 62° STA STB4. 1314 HAZE TO C
 STA STB4. 1316 CTD DROPOYS. 1344 CTD ON DECK. 1347 SET CASC 209° T FOR STA STB5.
 1423 HAZE TO C 554 STB5. 1426 CTD DROPOYS. 1500 CTD ON DECK. 1505 BONGOO DROPOYS.
 1530 BONGOO ON DECK. 1535 SET CASC 191° T FOR STB6. 1545 RELIEVED BY 3/m J. STAHL

1600-2000 J. STAHL ON WATCH WITH ABS PERRY & MERRIMAN AT HELM & LOOKOUT. U/LW AS BEFORE. 1600 ABS
 AFT TO WINCH (CRANE). 1616 Hove to on STATION STB6. CTD IN THE WATER. 1653 CTD ON DECK. MAX DEPTH 760 DB.
 1651 CSE 208° T, 1/5 TO 100 RPM. 1728 Hove to on STA STB7. 1740 CTD IN THE WATER. L 57° 49. 93 N λ 150° 05. 01 W.
 (NOTE ENTRY: POS IT AT 1616 L 57° 54. 70 N λ 150° 00. 02 W). 1808 CTD ON DECK, M. DEPTH 705 DB. 1809
 CSE 210° G, 1/5 100 RPM. 1842 Hove to on STA STB8. 1855 CTD IN THE WATER. L 57° 46. 76 N λ 150° 09. 42
 W. 1972 CTD ON DECK. 1925 HOG 280° G, SPD 1.5 KTS. BONGOO NETS STREAMED AFT. L 57° 46. 76 N λ 150°
 09. 68 W. 1945 B. NETS ON DECK. WATCH RELIEVED BY 3/m SCANLAND *John Stahl*

2000-2400 E. SCANLAND ON WATCH W/ABS GOODMAN AND WYLIE 1946 HEAD
 199° T 204° PGC 161° PSC AT 100 RPMs FOR STA STB9/STA1. 2029 CTD STB9/STA1
 DPLYD AT 57° 42. 25 N 158° 14. 34 W TO 131 DB. 2047 ON DECK. 100 RPMs ON COURSE
 77° T FOR STA2. 2127 CTD STA2 DPLYD AT 57° 44. 32 N 150° 07. 05 W. 2151 ON DECK.
 2155 BONGOO DPLYD AT 57° 44. 4 N 150° 07. 4 W. 2216 BONGOO ABOARD COURSE NE 100
 RPMs FOR STA3. 2332 CTD DPLYD AT 57° 48. 56 N 149° 52. 8 W. 2345 RELIEVED
 BY 2/m J. GALL. *E. Scanland*

John Stahl

FIRST OFFICER

John Stahl

MASTER

RV Kilo Moana ZONE DESCRIPTION +6(0) DATE TU 06 MAY 2003
STATION CRUISE KM0309 FOCI 124 Z BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		BARO.	TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.		DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT		DRY BULB	WET BULB	TYPE	AMOUNT
01															
02	ON STATION		CLR	10	275	14	275	SLT	W25	-	1017.5	45	40	-	-
03															
04			PCLY	10	275	14	275	SLT	320	4	1017.7	45	40	AC	1
05															
06	ON STATION		PCLY	10	275	12	275	SLT	240	4	1017.0	45	39	CUAS	4
07															
08	ON STATION		CLDY	10	280	10	280	SLT	240	4	1017.0	46	41	CUAC	7
09															
10	015 011	006	PCLY	12	275	10	275	SLT	210	4	1018.0	45	40	CU	3
11															
12	ON STATION		PCLY	12	275	10	275	RIP	-	-	1018.0	54	48	CU	5
13															
14	ON STATION		CLDY	10	270	11	270	RIP	-	-	1018.4	51	44	CUAS	7
15															
16															
17															
18	017 017	013	CLDY	12	290	11	290	RIP	-	-	1017.6	47	44	CUAL	7
19															
20	ON STATION		PCLY	10	285	13	285	RIP	240	4	1017.7	45	43	CUAL	4
21															
22	017 013	009	CLR	11	275	15	275	RIP	230	2	1018.9	45	43	STCU	1
23															
24	ON STATION		CLR	11	270	12	270	-	-	-	1018.9	45	43	ST	1
STEERING TIME	MIN.	HR.	TOTAL STEERING TIME	DAYS	HR.	MIN.	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	FUEL OIL CONSUMED	LUB. OIL ON HAND	LUB. OIL CONSUMED	FRESH WATER CONSUMED	FRESH WATER ON HAND	
0	0	0	1 20 20				71.8 MILES	1354 GAL.	65682 GAL.	8	550	8		6601	GAL.

STATION TIME	DETENTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
	MIN.	HR.		DEPARTING	ARRIVING	GAL.		GAL.		GAL.	
20	45	3	15								
TOTAL STATION TIME	MIN.	HR.	MIN.	FWO.	FWO.	TYPE	CO.	TYPE	CO.	TREATED	YES NO
5 08 05	7	30	30								

SR 0553
SB 2156

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 3 VISUAL
2 ELECTRONIC 4 D.R.

TIME	0400	TYPE OBS.	2	1200	2	TIME	2000	TYPE OBS.	2
LATITUDE	57° 57.1' N			LATITUDE	58° 21.2' N			LATITUDE	58° 42.3' N
LONGITUDE	149° 28.3' W			LONGITUDE	148° 58.7' W			LONGITUDE	148° 50.9' W

REMARKS

00-04 J. RAUL ON WATCH. ASS. BOWST AND MILLER ASSISTING w/ DECK OPERATIONS.
UNDERWAY ON CRUISE KM0309 124Z. GWS # 314 ONLY. ON STATION STAB. STD CASE
IN PROGRESS. SWITCHED TO #1 STEERING PUMPS. 0001 POS: 57° 48.4' N 149° 53.0' W, STD ON
DECK. AT SEQUENCE 0005 BOWHD DEPLOYED. 0029 BOWHD ON DECK. 0031 STD CASE 050° T
FOR STA STAB. 0132 HEAVE TO @ STA STAB. 0134 STD DEPLOYED. 0202 STD ON DECK.
0205 STD CASE 059° T FOR STA STAB. 0241 HEAVE TO @ STA STAB. 0242 STD DEPLOYED.
0305 STD ON DECK. 0308 BOWHD DEPLOYED. 0321 BOWHD ON DECK. 0324 STD CASE 070° T
FOR STA STAB. 0345 RELIANT BY C/M J. STANLEY

REMARKS

PAGE NO. 12

0400-0800 J. STAHL ON WATCH W/ A/B3 PERRY & MERRIMAN AFT AT WINGH & CRANKE CONTROLS. U/L AS BEFORE. 0400 FIRE ALARM BELL AUTOMATICALLY SOUNDED FOR 'TROUBLE STOP DRY STORES LOCKER'. FALSE ALARM. 0407 Hove to ON STA: STA 6, 157° 57' 08" N 149° 28.75' W. CTD IN THE WATER. 0431 CTD ON DECK. MAX DEPTH 190M. 0437 CSE 050° T, 1/3 100 RPM. 0459 Hove to ON STA: STA 7, 157° 58.9' N 149° 24.989' W. 0525 CTD ON DECK. M. DEPTH 205 DB. 0527 CSE 065° T, 1/3 100 RPM. 0606 Hove to ON STA: STA 8, 0608 CTD IN THE WATER. 158° 01.31' N 149° 17.79' W. 0625 CTD ON DECK. M. DEPTH 218 DB. 0636 HOG 265° G. SPD 1.5 KTS. B. NETS STREAMED AFT. 0659 B. NETS ON DECK. 0700 HOG 060° T, 1/3 100 RPM. 0746 Hove to ON STA: STA 9. WATCH RELIEVED BY 3/M SCANLAND *for Stahl c/m.*

0800-1200 E. SCANLAND ON WATCH W/ A/B2 GOODMAN AND WYLIE. 0748 CTD STA 9. DPLYD AT 58° 03.83' N 149° 10.69' W TO 109 DB. 0804 ON DECK. 0808 BONGGO DPLYD AT 58° 03.80' N 149° 10.96' W. 0820 ON DECK. HEAD 66° T 62° PGC. 55° PSC. AT 100 RPM, FOR STA 10/STA 1. 0907 CTD STA 10/STA 1. DPLYD AT 58° 05.97' N 149° 04.49' W TO 82 DB. 0920 CTD ON DECK. B/T SECURED. SET COURSE 17° T AT 100 RPM. FOR SITE. STA 2. 1026 CTD STA 2. DPLYD AT 58° 13.64' N 149° 01.59' W. 1041 CTD ON DECK. COURSE 10° T AND 100 RPM. FOR SITE. STA 3. 1145 CTD STA 3. DPLYD AT 58° 21.24' N 148° 58.76' W. WATCH RELIEVED BY 2/M J. GALL. *2 Atanland*

12-16 J. GALL ON WATCH. ABS GROUND AND MILLER ASSISTING W/ DECK OPERATIONS. 1152 PROBLEMS WITH CTD WIRE REPORTED - ALL STOP, 1211 BT ONLY. 1217 CTD RECOVERED. 1220 BT SECURED, STANDBY. 1230-1330 SHIPS CREW TRAINING SESSION CONDUCTED BY CLM AND 3/M M412. TOPICS: UNDERWATER APPARATUS, FURIES, AND PROPER USE OF AFFF FOAM AND APPLICATIONS. 1515 CTD READY, PROCEEDING TO STA 3. 1530 HVAZ 50 Q SEA. STA 3. 1533 CTD DEPLOYED. 1545 RELIEVED BY CLM J. STAHL *JG*

1600-2000 J. STAHL ON WATCH WITH A/B3 PERRY & MERRIMAN AT HELM & LOOKOUT. U/L AS BEFORE. 1556 CTD ON DECK. 1557 CSE 018° T, 1/3 TO 100 RPM. 1652 Hove to ON STA: STA 4. CTD IN THE WATER. 1710 CTD ON DECK. 1715 B. NETS STREAMED AFT. 1728 B. NETS ON DECK. 1730 SET CSE 017° T, 1/3 TO 100 RPM. 1630 Hove to ON STA. AT 67. 1833 CTD IN THE WATER. 158° 36.73' N 148° 53.00' W. 1853 CTD ON DECK. MAX DEPTH 113 DB. 1854 CSE 013° T, 1/3 TO 100 RPM. 1930 Hove to ON STATION 6817. 158° 42.03' N 148° 51.01' W. CTD IN THE WATER. 1945 WATCH RELIEVED BY 3/M SCANLAND. *for Stahl c/m.*

2000-2400 E. SCANLAND ON WATCH W/ A/B2 WYLIE AND GOODMAN. ON STATION AS BEFORE. 2004 CTD ABOARD. 2011 BONGGO DPLYD AT 58° 42.4' N 148° 50.95' W. 2032 BONGGO ON DECK. SET COURSE 12° T AND 100 RPM. FOR AT 65. 2126 CTD AT 05 DPLYD AT 58° 47.7' N 148° 48.94' W TO 249 DB. 2152 ON DECK. COURSE 17° T AT 100 RPM. FOR 6811. 2246 CTD 6811 DPLYD AT 58° 53.49' N 148° 47.06' W TO 286 DB. B/T SECURE. 2320 CTD ON DECK. 2323 BONGGO DPLYD AT 58° 53.61' N 148° 47.52' W. 2345 RELIEVED BY 2/M J. GALL. *2 Atanland*

for Stahl

FIRST OFFICER

for Stahl

MASTER

R/V KILO MOANA ZONE DESCRIPTION +3(0) DATE WED 07 MAY 2003
ACTION CRUISE KM0309 Faci L24 2 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		BARO.	TEMP.		CLOUDS					
	TRUE	GYRO	STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDT.	DIRECT.	HEIGHT		DRY BULB	WET BULB	TYPE	AMOUNT				
01																				
02	ON STATION			RCB4	10	260	16	260	SLT	000B	-	1019.7	46	42	AS	3				
03																				
04	ON STATION			RCB4	10	255	14	255	SLT	240	4	1019.3	45	43	AS	2				
05																				
06	195 193	150		RCB4	10	250	10	250	SLT	220	4	1019.0	45	43	SLCS	2				
07																				
08	ON STATION			CLR	15	280	14	280	SLT	220	4	1020.0	48	44	-	0				
09																				
10	188 189	148		CLR	12	265	12	-	-	-	-	1021.1	45	43	CU	1				
11																				
12	ON STATION			CLR	12	275	14	275	RIP	-	-	1022.4	49	46	CU	1				
13																				
14	186 167	150		CLDY	10	275	13	275	SLT	230	4	1022.7	46	46	AC CU	6				
15																				
16	ON STATION			CLDY	10	260	12	260	SLT	230	4	1023.1	50	47	CS AC CU	5				
17																				
18	DIS DIS DIS	DIS	DIS	CLDY	10	275	07	275	RIP	230	4	1022.7	50	47	ACCS	9				
19																				
20	ON STATION			CLDY	10	265	06	265	RIP	230	4	1022.4	50	47	ACCS	9				
21																				
22	ON STATION			CLDY	6	245	9	245	RIP	-	-	1023.4	46	42	ST	4				
23																				
24	ON STATION			CLR	6	255	7	255	RIP	-	-	1023.6	46	44	ST	3				
STEAMING TIME		TOTAL STEAMING		DISTANCE		TOTAL DISTANCE		FUEL OIL CONSUMED		FUEL OIL ON HAND		LUB. OIL CONSUMED		LUB. OIL ON HAND		FRESH WATER CONSUMED		FRESH WATER ON HAND		
HRS.	MIN.	0	0	1	20	20	102.7	MILES	867.5	MILES	64531	GAL.	15	GAL.	550	GAL.	6363	GAL.	6363	GAL.

STATION TIME		DETECTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED		
HRS.	MIN.	HRS.	MIN.		DEPARTING	ARRIVING					TREATED	YES	NO
24	00												
TOTAL STATION TIME		TOTAL DETECTION		STAND.	P.W.	P.W.	TYPE		TYPE		CO.		
DAYS	HRS.	MIN.	HRS.	MIN.	DEV.	AFT.			CO.				
6	00	05	7	30									

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 3 VISUAL
2 ELECTRONIC 4 D.R.

TIME 0400	TYPE OBS. 2	TIME 1200	2	TIME 2000	TYPE OBS. 2
LATITUDE <u>58° 07.0' N</u>		LATITUDE <u>58° 41.9' N</u>		LATITUDE <u>58° 53.5' N</u>	
LONGITUDE <u>148° 38.7' W</u>		LONGITUDE <u>148° 50.9' W</u>		LONGITUDE <u>148° 46.9' W</u>	

REMARKS

00-04 J-GAIL ON WATCH. ABS BOWST AND MULTIPLE ASS. STW'S W/ DECK OPERATIONS. UNDERWAY ON CRUISE KM0309 LEG 2. AWS 3/4 ONLINE, BOWHO TOW IN PROGRESS AT STA 4811. 2347(06) BOWHO ON DECK. 2350(06) SET CRSE 030°T FOR STA ATB 3. 0001 POS: 58°55.2'N 148°47.5'W. SWITCHING TO # 2 STEAMWY PUMPS. 0026 HAVI TO @ STA ATB 3. 0032 CTD DEPLOYED. 0056 CTD ON DECK. 0102 SET CRSE 029°T FOR STA ABS. 0130 HAVI TO @ STA ABS. 0134 CTD DEPLOYED. 0203 CTD ON DECK. 0207 BOWHO DEPLOYED. 0232 BOWHO ON DECK. 0236 SET CRSE 027°T FOR STA ATB 1. 0322 HAVI TO @ STA ATB 1. 0324 CTD DEPLOYED. 0347 CTD ON DECK. RELIEVED BY C/M J. STANLEY *[Signature]*

0400-0800 J STAHN ON WATCH WITH AFB3 PERRY & INTERKIMMAN AT HELM & LOOKOUT. U/W AS BEFORE.
 0350 CSE 020°T, 1/5 TO 100 RPM. 0429 HALL TO ON STA ATB3. 159°11.57'N \angle 148°36.14'W. CTD IN THE
 WATER. \downarrow 0448 CTD ON DECK, MAF DEPTH 126 DB. 0449 CSE 196°T, 1/5 TO 100 RPM. 0525 HALL TO ON STA
 ATB1. CTD IN THE WATER. 159°06.97'N \angle 148°38.89'W. 0549 CTD ON DECK, M. DEPTH 160 DB. 0550 CSE
 195°T, 1/5 TO 100 RPM. 0634 HALL TO ON STA ATB5. 0637 CTD IN THE WATER, \downarrow 159°00.998'N
 \angle 148°38.88'W. 0702 CTD ON DECK, M. DEPTH 225 DB. 0703 CSE 199°T, 1/5 TO 66 RPM. 0738 HALL TO ON
 STA ATB3. CTD IN THE WATER. 158°58.00'N \angle 148°44.75'W. 0745 WATCH RELIEVED BY
 3/m SCANLAND. *John Stahl*

0800-1200 E. SCANLAND ON WATCH W/ AFB3 GOODMAN AND WYLIE. ON STA AS
 BEFORE. CTD DEPTH 200 DB. 0806 ON DECK. COURSE 197°T AND 100 RPM. FOR SITE
 6B-11. 0852 CTD 6B-11 DPLYD AT 58°53.45'N 148°47.01'W TO 280 DB. 0924 ON
 DECK. COURSE 188°T 189°P66 148°P56 FOR ATB5 AT 100 RPM. CTD ATB5 DPLYD
 AT 58°47.66'N 148°49'W. 1036 ON DECK. COURSE 186°T FOR 6B-12. 1144 WATCH
 RELIEVED BY 2/m J. GALL. E. SCANLAND

12-16 J. GALL ON WATCH. 1145 HALL TO @ STA 6B-12. 1045-1155 MEASUREMENTS OF DECK CRANE
 CONDUCTED BY CAPT DREWING, REVIEWING CTD WHICH OFWAF-0VS AND PROBABLE CAUSE OF
 Y250MAY35 FAILURE. 1210 CTD DEPTH. 1240 CTD ON DECK. 1242 SET CSE 190°T FOR
 STA ATB7. 1314 HALL TO @ STA ATB7. 1317 CTD DEPTH. 1335 CTD ON DECK. 1338 SET
 CSE 169°T FOR STA 5AB4. 1431 HALL TO @ STA 5AB4. 1434 CTD DEPTH. 1454 CTD
 ON DECK. 1457 SET CSE 015°T FOR STA ATB7. 1545 RELIEVED BY C/M J. STAHN *John Stahl*

1600-2000 J STAHN ON WATCH WITH AFB3 PERRY & INTERKIMMAN AT HELM & LOOKOUT. U/W AS BEFORE. 1550 AFB3
 APT WHICH CRANE CONTROLS FOR CTD DB. 1558 HALL TO ON STA ATB7. CTD IN THE WATER. 1600 CTD \downarrow ,
 158°36.11'N \angle 148°53.04'W. 1618 CTD ON DECK, MAF DEPTH 113 DB. 1619 CSE 015°T, 1/5 TO 100 RPM. 1704
 ALL STOP ON STA ATB7. CTD IN THE WATER. 158°42.05'N \angle 148°51.01'W. 1715 CTD ON DECK, M. DEPTH 206 DB. 1731 \downarrow
 CTD ON DECK. 158°42.3'N \angle 148°51.3'W. 1732 CSE 015°T, 1/5 TO 100 RPM. 1809 HALL TO ON STATION ATB5,
 1819 CTD IN THE WATER, \downarrow 158°48.01'N \angle 148°49.27'W. 1848 CTD ON DECK, M. DEPTH 250 DB. 1849 CSE
 006°T, 1/5 TO 100 RPM. 1936 HALL TO ON STA ATB11. 1938 CTD IN THE WATER, \downarrow 158°53.58'N \angle 148°
 47.06'W. 1945 WATCH RELIEVED BY 3/m SCANLAND. *John Stahl*

2000-2400 E. SCANLAND ON WATCH W/ AFB3 GOODMAN AND WYLIE. CTD DEPTH
 288 DB. 2010 ON DECK. ENROUTE TO ATB3 AT COURSE 130°T AND 100 RPM.
 2056 CTD ATB3 DPLYD AT 58°57.9'N 148°44.03'W TO 251 DB. 2125 ON DECK.
 020°T, 90 RPM. TO STA 6B5/6AK6. 2208 CTD DPLYD AT 59°00.97'N ~~2237~~
 148°42.1'W TO 225 DB. 2237 CTD ABOARD. ABOARD CRANE FOUND TO NOT
 SWING LEFT OR RIGHT. PROCEED TO STA ABB1A 1.5 MILES AWAY 017°T AT 80 RPM.
 2332 CTD DPLYD AT 59°03.79'N 148°40.63'W DEPLOYING W/OUT CRANE SWING.
 2345 WATCH RELIEVED BY 2/m J. GALL. E. SCANLAND

John Stahl

FIRST OFFICER

John Stahl

MASTER

R/V Kilo Moana ZONE DESCRIPTION +6(u) DATE THU 08 MAY 2003
STATION CRUISE 16M0309 F001 4852 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS							
	TRUE	GYRO	STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE	AMOUNT					
01																					
02	ON STATION		PCSY	10	225	07	225	RIP	UNOB	-	1024.1	46	44	AS	2						
03																					
04	267	265	233	CLDY	8	210	08	210	RIP	-	1023.5	46	45	SC	9						
05																					
06	ON STATION		OCST DRZ	4	130	05	-	CAUM	220	3	1022.5	46	45	ST	10						
07																					
08	ON STATION		OCST L.FOG	3	150	05	150	RIP	220	3	1022.5	46	45	ST	10						
09																					
10	ON STATION		CLDY	5	170	10	170	RIP	215	2-3	1023.4	47	43	ST	10						
11																					
12	ON STATION		OCST	5	150	8	-	RIP	215	2-3	1023.6	48	46	ST	10						
13																					
14	ON STATION		OCST P.FOG	5	160	10	160	SLT	215	5	1023.9	47	46	ST	10						
15																					
16	ON STATION		OCST	7	150	09	150	RIP	215	5	1023.4	48	46	ST	10						
17																					
18	ON STATION		OCST	8	130	10	130	SLT	215	5	1022.2	49	46	ST	10						
19																					
20	350	350	340	OCST	7	120	11	120	SLT	210	5	1021.6	48	45	OCST	10					
21																					
22	ON STATION		DRZ	5	085	15	085	SLT	195	5	1021.2	45	43	SC	10						
23																					
24	ON STATION		OCST	5	085	20	085	SLT	-	-	1019.5	46	43	-	10						
TOTAL STEAMING TIME 2 HRS. 45 MIN. 1 23 05 DAYS HRS. MIN. 1 23 05																					
TOTAL DISTANCE 968.1 MILES					TOTAL DISTANCE 968.1 MILES			FUEL OIL CONSUMED 1698 GAL			FUEL OIL ON HAND 62635 GAL			FUEL OIL CONSUMED 60 GAL		FUEL OIL ON HAND 490 GAL		FRESH WATER CONSUMED		FRESH WATER ON HAND 6274 GAL	
TOTAL DISTANCE 968.1 MILES					TOTAL DISTANCE 968.1 MILES			FUEL OIL CONSUMED 60 GAL			FUEL OIL ON HAND 490 GAL			FUEL OIL CONSUMED 60 GAL		FUEL OIL ON HAND 490 GAL		FRESH WATER CONSUMED		FRESH WATER ON HAND 6274 GAL	
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TOTAL DISTANCE 968.1 MILES																					

0400-0800 J STAHN ON WATCH WITH ABS PERRY & MERRIMAN AT HELM & LOOKOUT. U/W AS BEFORE. 0445 Hove to on STA ATD 9. 0448 CTD IN THE WATER. 0452 CTD ↓ L 59° 09' 69" N & 149° 38' 572" W. SECURED #4 SSDG. 0540 Hove to on STA ATD 8. 0546 CTD IN THE WATER. ↓ L 59° 06' 77" N & 149° 37' 33" W. 0552 CTD ↑. HP 208 DB. 0608 CTD ON DECK. 0609 CSE 140° T, 1/5 100 RPM. (LATE: 0513 CTD STA ATD 9 ON DECK. CSE 166° T, 1/5 TO 100 RPM). 0646 Hove to on STA ATD 7. 0649 CTD IN THE WATER. 0653 CTD ↓ L 59° 01' 98" N & 149° 35' 69" W. 0712 CTD ON DECK. 0713 CSE 174° T, 1/5 TO 100 RPM. 0745 WATCH RELIEVED BY 3/M SCANLAND. *for Scanland*

0800-1200 E. SCANLAND ON WATCH W/ABS WYLIE AND GOODMAN. 0757 CTD DPLYD AT 58° 56' 44" N & 149° 34' 05" W. 0821 CTD ABOARD. COURSE 167° T AT 100 RPMs FOR STA ATD 5. 0902 CTD DPLYD AT 58° 51' 28" N & 149° 32' 04" W. 0928 ON DECK. 0930 COURSE 160° T 162° P6C 128° P3C AND 100 RPMs. FOR STA ATD 4. 1107 CTD ATD 3 DPLYD AT 58° 42' 46" N & 149° 28' 05" W TO 158 DB. ON DECK 1128. *LATE ENTRY: 1108 CTD ATD 4 DPLYD AT 58° 46' 98" N & 149° 29' 98" W. 1028 ON DECK. * ENROUTE TO ATD 2 COURSE 165° T 100 RPMs RELIEVED BY 2/M J GALL. 9 Scanland

12-16 J. GALL ON WATCH. ABS BRUNSE AND MILVZ ASSISTING WITH DECK OPERATIONS. 1200 Hove to @ STA ATD 2. 1205 CTD DPLYD. 1227 CTD ON DECK. 1230 SET CSE 170° T FOR STA ATD 1. 1234 DIRECTION BY US TO RETURN TO STA ATD 2 FOR 10M DECK. 1219 Hove to @ STA ATD 2. 1252 CTD DPLYD. 1259 CTD ON DECK. 1301 SET CSE 170° T FOR STA ATD 1. 1336 Hove to @ STA ATD 1. 1339 CTD DPLYD. 1359 CTD ON DECK. 1401 BOWD DPLYD. 1418 BOWD ON DECK. 1425 SET CSE 350° T FOR STA ATD 2. 1506 Hove to @ STA ATD 2. 1508 CTD DPLYD. 1529 CTD ON DECK. 1533 SET CSE 357° T FOR STA ATD 3. 1545 RELIEVED BY C/M J STAHN *JG*

1600-2000 J STAHN ON WATCH WITH ABS PERRY & MERRIMAN AFT AT WINDH & CRANE CANTAILS. U/W AS BEFORE. 1605 Hove to on STA ATD 3. 1609 CTD IN THE WATER. ↓ L 58° 42' 53" N & 149° 27' 97" W. 1616 CTD ↑. 1608 DB. 1629 CTD ON DECK. SET CSE 344° T, 1/5 TO 100 RPM. 1705 ALL STOP ON STA # ATD 4 1712 CTD DPLYD @ L 58° 47' 00" N & 149° 30' 10" W ↓ 1725 CTD @ DEPTH 194 M ↑ 1741 CTD ON DECK. 1742 H & 1756, 1/5 TO 2.0 KTS. 1744 B. NETS STREAMED AFT. 1808 B. NETS ON DECK. 1811 SET CSE 344° T, 1/5 TO 100 RPM. 1855 Hove to on STA ATD 5. 1858 CTD IN THE WATER. ↓ L 58° 51' 36" N & 149° 37' 07" W. 1907 CTD ↑. 224 DB. 1922 CTD ON DECK. 1923 1/5 TO 50 RPM. STBD PROP MOTOR SHUT DOWN. 1930 STBD PROP MOTOR ON LINE, 1/5 TO 100 RPM P/S. 1945 WATCH RELIEVED BY 3/M SCANLAND *for Scanland*

2000-2400 E. SCANLAND ON WATCH W/ABS WYLIE AND GOODMAN. U/W AS BEFORE. 2010 CTD ATD 6 DPLYD AT 58° 56' 65" N & 149° 34' 02" TO 238 DB. 2032 ON DECK. 2038 BOWD DPLYD AT 58° 56' 48" N & 149° 33' 92". 2059 ON DECK. SET CSE 353° T 350° P6C 344° P3C. AT 100 RPMs FOR STA ATD 7. 2156 CTD ATD 7 DPLYD AT 59° 01' 95" N & 149° 35' 13" W TO 234 DB. 2224 ON DECK. COURSE 349° T 100 RPMs FOR NEXT STA. 2327 CTD ATD 8 DPLYD AT 59° 06' 18" N & 149° 37' 23" W. 2345 WATCH RELIEVED BY 2/M J. GALL. 9 Scanland

for Scanland

FIRST OFFICER

for Scanland

MASTER

R/V KILO MOANA ZONE DESCRIPTION ±6(V) DATE Fri 09 May 2003
AT/ON CRUISE KM0309 FOCI 1342 BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.		DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION			6	095	19	095	SLS	000B	-	1019.1	17	15	5N3 10
03														
04	ON STATION			6	100	18	100	MOD	000B	-	1017.6	46	44	5N5 10
05														
06	170 134		RAIN CAST	2	110	25	110	MOD	-	-	1014.5	45	44	STN5 10
07														
08	ON STATION		RAIN CAST	2	115	30	115	RGH	-	-	1012.4	45	44	STN5 10
09														
10	170 135		RAIN	2	120	30	120	RGH	-	10-14	1011.2	45	43	5N 10
11					GUST 36									
12	MOVE TO -		CAST	2	125	30	125	RGH	160	10	1010.3	45	44	5T 10
13														
14	MOVE TO		CAST DRIZ	4	130	27	130	RGH	160	12-14	1008.6	47	46	5T 10
15														
16	243 243		CAST	6	150	27	150	M. RGH	155	12-14	1008.4	48	46	5T 10
17														
18	243 243		CAST P. Fog	2	130	25	130	RGH	160	14	1006.0	44	42	5T 10
19														
20	ON STATION		CAST DRIZ	3	145	22	145	M. RGH	160	14	1004.8	45	43	5T 10
21														
22	MOVE TO -		CAST	5	175	20	175	RGH	155	10-12	1005.0	45	43	5T 10
23														
24	MOVE TO		CAST	5	180	22	180	RGH	-	-	1006.7	44	43	5T 10

STEAMING TIME	HRS.	TOTAL STEAMING TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	FUEL OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
		DAYS	MRS.	MIN.	MILES	QAL.	QAL.	QAL.	QAL.	QAL.	QAL.
0	0	1	23	05	67.8	1035.9	1007	61632	490		7563

STATION TIME		DETENTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED	LUB. OIL RECEIVED	FRESH WATER RECEIVED	
HR.	MIN.	HR.	MIN.		DEPARTING	ARRIVING			TYPE	TREATED
11	00									
TOTAL		TOTAL		STAND.	P.W.	AFT.	TYPE	CO.		
DAYS	HR.	MIN.	SEC.							
7	16	20	7	30						

WX DAY 13 4 COM

LEGEND 1 CELESTIAL 3 VISUAL
2 ELECTRONIC 4 DR.

POSITION BY OBSERVATION

TIME	0400	TYPE OBS.	2	TIME	2000	TYPE OBS.	2
LATITUDE	59° 07.25 N	LATITUDE	58° 40.3 N	LATITUDE	58° 45.5 N		
LONGITUDE	149° 37.3 W	LONGITUDE	149° 25.8 W	LONGITUDE	150° 01.6 W		

REMARKS

00-04 J. MAN ON WATCH. ABS. SOWER AND MILLER ASSISTING w/ DECK OPERATIONS. UNDERWAY ON CRUISE KM0309 LTA 2. GWS # 2/3 ONLINE. CTD CAST IN PROGRESS @ STA ATD8. SWITCHED TO #2 SEAWATER PUMPS. 2348 (08) CTD ON DECK. 2353 (08) BOWHO DEPLOYED. 0001 POS. 59° 03.7 N 149° 36.8 W, 0014 BOWHO ON DECK. 0020 SET CRSE 332° T FOR STA ATD9. 0047 HADVE TO @ STA ATD9. 0049 CTD DEPLOYED. 0113 CTD ON DECK. 0118 SET CRSE 346° T FOR STA ATD10. 0146 HADVE TO @ STA ATD10. 0149 CTD DEPLOYED. 0211 CTD ON DECK. 0215 BOWHO DEPLOYED. 0228 BOWHO ON DECK. 0231 SET CRSE 175° T FOR STA ATD9. 0307 HADVE TO @ STA ATD9. 0309 CTD DEPLOYED. 0333 CTD ON DECK. 0340 SET CRSE 175° FOR STA ATD8. 0345 RECEIVED BY C/M J. STANLEY *[Signature]*

REMARKS

PAGE NO. 16

0400-0800 J STAHL ON WATCH WITH ABS PERRY & MERRIMAN AFT AT WINCH & CRANE CONTROL. U/L AS BEFORE. 0350 1/S TO 100 RPM. 0413 HAKE TO ON STA ATD 8. CTD IN THE WATER. 0417 LUBBERING CTD. L 59° 06. 28' N λ 149° 37. 30' W. 0424 CTD \uparrow 205 DB. 0440 CTD ON DECK. C/L 172° T. 1/S TO 100 RPM. 0520 HAKE TO ON STA ATD 7. 0524 CTD IN THE WATER. \downarrow L 59° 07. 07' N λ 149° 35. 33' W. 0531 CTD \uparrow 724 DB. 0548 CTD ON DECK. 0550 C/L 170° T. 1/S TO 100 RPM. 0635 HAKE TO ON STA ATD 6. 0640 CTD IN THE WATER. \downarrow L 58° 56. 64' N λ 149° 34. 17' W. 0647 CTD \uparrow 238 DB. 0701 CTD ON DECK. 0702 C/L 168° T. 1/S TO 100 RPM. 0743 WATCH RELIEVED BY 3/m SCANLAND
JL Stahl c/m.

0800-1200 E. SCANLAND ON WATCH W/ ABS GOODMAN AND WYLIE. 0757 CTD ATD 5 DELYD AT 58° 51. 33' N 149° 32. 14' W TO 225 DB. 0830 ON DECK. COURSE 176° T AND 100 RPM. FOR STA ATD 4. 0917 CTD ATD 4 DELYD AT 58° 46. 94' N 149° 29. 94' W TO 196 DB. 0942 ON DECK. COURSE 172° T 170° P 66 135° P 50 AT 90 RPM. FOR SITE ATD 3. 1035 CTD ATD 3 DELYD AT 58° 42. 5' N 149° 27. 7' W TO 159 DB. 1101 ON DECK. 1110 HAKE TO INTD SEAS. 45 RPM. 1138 WATCH RELIEVED BY 2/m J. GALL.
J. Scanland

12-16 J. GALL ON WATCH. ABS BEWUS AND MICHE AC HELM/LOOKOUT. 1403 TO, AS BEFORE. SERVICE OPS SUSPENDED FOR W/M FALC. 1142 85 SECURED. 1455 SET COURSE 293° FOR STA ATD 5 - RPM 5 SEC @ 60. STEADY 293° P 60 / 275 P 50. 1545 RELIEVED BY c/m J. STAHL
J. Stahl

1600-2000 J. STAHL ON WATCH WITH ABS PERRY & MERRIMAN AT HELM & LOOKOUT. U/L AS BEFORE. 1804 A/C 288° P 60 1905 A/C TO 280° P 60 260° P 50. 1945 WATCH RELIEVED BY 3/m SCANLAND. JL Stahl c/m.

2000-2400 E. SCANLAND ON WATCH W/ ABS WYLIE AND GOODMAN. ARRIVED AT STA ATD 5 AT 1950. HAKE TO. 2030 AROUND COMPLETED. ALL SECURE. 2200 ALL SECURE. 2345 WATCH RELIEVED BY 2/m J. GALL. J. Scanland

JL Stahl

FIRST OFFICER

J. Stahl

MASTER

RV Kilo Moana

ZONE DESCRIPTION +6(0) DATE SAT 10 MAY 2003

ACTION CRUISE KM0309 F001 6442

BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.		DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	1404250		0035	6	195	23	195	M. RCH	170	10	1008.0	46	44	ST 10
03														
04	1404250		ST. 0410	6	190	26	190	M. RCH	180	11	1008.7	43	42	ST 10
05														
06	1404250		ST. 0410	6	185	22	185	M. RCH	180	10-12	1007.6	44	41	NSST 10
07														
08	1404250		ST. 0410	5	200	22	200	M. RCH	190	10	1008.4	43	42	NSST 10
09														
10	ON STATION		CLDY	5	210	15	210	M. RCH	155	8	1009.7	44	41	NSST 10
11														
12	021 017 014		CLDY	7	190	15	190	MOD	155	8	1009.5	46	43	NSST 9
13														
14	ON STATION		DESK P. SWR	7	365	06	355	RIP	190	9	1010.1	46	44	SCST NS 10
15														
16	007 007 000		0035	8	000	04	000	RIP	190	8	1010.2	47	46	SCST 10
17														
18	ON STATION		0035	10	LIGHT AIRS				190	6	1009.5	46	44	SC 10
19														
20	ON STATION		0035	10	LIGHT AIRS				190	5	1009.0	46	44	SCAS 10
21														
22	057 057 052		0035	8	125	8		RIP	180	5	1009.0	45	42	ST 10
23														
24	049 048 043		0035	7	085	8			180	5	1007.6	43	41	ST 10
25														

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

STATION TIME	TOTAL STATION TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.	SEC.	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
01	00	00	00	53.7	112.4	60.708	0	440		7098

POSITION BY OBSERVATION		LEGEND		1 CELESTIAL	2 ELECTRONIC	3 VISUAL	4 D.R.
TIME	2000	TIME	2000	TYPE OBS.			
5K 0542	WX DELAY 64 00 M	1200	2				
58 7210	TOTAL 194 00 M	LATITUDE	58° 57.5 N	LATITUDE	59° 14.2 N		
		LONGITUDE	150° 05.3 W	LONGITUDE	149° 35.2 W		

REMARKS

PAGE No. 20

ON STA ATE 5 L 58° 45.6' N λ 150° 09.8' W. 0603 CTD IN THE WATER. \downarrow L 58° 45.48' N λ 150° 09.60' W. 0619 CTD \uparrow 165 DB. 0635 CTD ON DECK. 0646 BUNGO NETS STREAMED AFT, HDG 195° T. SPD 15.2 KTS 0703 B. NETS ON DECK. HULK TO. 0745 WATCH RELIEVED BY 21M SCANLAND *for Seal C/m.*

E. SCANLAND ON WATCH W/ A/B 2 GOODMAN AND WYLIE. MOVE TO AS BEFORE. 0825 I/S TO 60 RPMs. COURSE 012° T FOR STA ATE 4. 1009 CTD ATE 4 DRYD AT 58° 50.7' N 150° 08.66' W. 1033 ON DECK. NORTHERLY COURSE AND TO RPMs FOR ATE 3 1140 RELIEVED BY 21M J. GALL. 2 Scanland

12-16 J. GALL ON WATCH. ABS SOUND AND MICRO AT 1200M/LOOKOUT. U/W AS BEFORE. 1244 HUAU TO @ STA ATE 3. 1252 CTD DRYD \downarrow 1323 CTD ON DECK. 1328 525 CDS 005° T FOR STA ATE 2. 1417 HUAU TO @ STA ATE 2. 1421 CTD DRYD \downarrow 1452 CTD ON DECK. 1500 BUNGO DRYD/2A. 1525 BUNGO ON DECK. 1529 525 CDS 007° T FOR STA ATE 1. 1545 RELIEVED BY C/M J. STANLEY *J. Stanley*

1600-2000 J. STANLEY ON WATCH U/W AS BEFORE. ABS PERRY & WILKINMAN AT HELM & LOOKOUT. 1625 HULK TO ON STA ATE 1. 1628 CTD IN THE WATER. \downarrow L 59° 07.34' N λ 150° 03.93' W. 1638 CTD \uparrow W. DEPTH 144 DB. 1652 CTD ON DECK. 1653 C/C 069° T. 067° DB. 1/3 TO 100 RPM. 1747 HULK TO ON STA KCW 1. 1749 CTD IN THE WATER. 1751 CTD WILKED. L 59° 09.67' N λ 149° 51.07' W. 1807 CTD \uparrow 132 DB. 1816 CTD ON DECK. 1817 C/C 059° T. 1/3 TO 100 RPM. 1920 HULK TO ON STA KCW 2. 1927 CTD IN THE WATER. \downarrow L 59° 13.95' N λ 149° 36.27' W. 1937 CTD \uparrow 134 DB. 1945 WARP RELIEVED BY 21M SCANLAND *for Seal C/m.*

2000-2400 E. SCANLAND ON WATCH W/ A/B 2 GOODMAN AND WYLIE. ON STATION AS BEFORE. 1950 CTD ON DECK. U/W FOR STA KCW 3 AT 100 RPMs AND 58° T. 2101 CTD KCW 3 DRYD AT 59° 18.45' N 149° 20.88' W TO 139 DB. 2120 ON DECK. 2126 BUNGO DRYD AT 59° 18.2' N 149° 20.6' W. ABOARD 2146 COURSE 42° T 39° PGC 35° PSC AND 100 RPMs FOR STA KCW 4. 2242 CTD KCW 4 DRYD AT 59° 21.96' N 149° 08.89' W TO 206 DB. 2307 ON DECK. 2310 BUNGO DRYD AT 59° 21.68' N 149° 08.36' W. 2330 BUNGO ABOARD U/W AT 100 RPMs 49° T FOR KCW 5. 2345 RELIEVED BY 21M J. GALL. 2 Scanland

for Seal

FIRST OFFICER

H. J. Stanley

MASTER

RW KILO MOANA
ZONE DESCRIPTION +8(0) DATE SUN 11 MAY 2023
STATION CRUISE 16M0309 FOCI 0242 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION		LT RAIN.	6	100	06	100	RIP	WWS	-	43	42	STS	10
03														
04	304	304	OCST DEZL	8	100	06	100	RIP	-	-	44	41	ST	10
05														
06	024	023	OCST DEZL	6	010	07	010	RIP	-	-	43	41	ASSC	10
07														
08	404E TO		OCST DEZL	6	-	0	-	0	-	0	43	41	STAS	10
09														
10											46	44		
11											46	44		
12														
13														
14	107	105	OCST DEZL	7	060	09	060	RIP	MIX	3	46	44	ST SC	10
15														
16	090	087	OCST DEZL	6	015	06	015	RIP	MIX	3	49	46	ST SC	10
17														
18	ON STATION		OCST DEZL	6	015	06	015	RIP	-	-	46	42	SCAS	10
19														
20	ON STATION		OCST DEZL	6	015	06	015	RIP	-	-	46	45	ASSC	10
21														
22	112	108	OCST DEZL	7	305	9	-	RIP	105	5	44	43	ST SC	10
23														
24	ON STATION		CLDY	6	260	9	-	RIP	MIX	6	45	43	ST	9
STEAMING TIME	TOTAL STEAMING TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB OIL CONSUMED	LUB OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND				
19	30	2 18 35	217.7 MILES	1307.3 MILES	3177 GAL	57531 GAL	8	490 GAL		5720 GAL				

REMARKS

PAGE NO. 22

0400-0800 J. STALL ON WATCH. U/W AS BEFORE. A/B'S PERRY & MERRIMAN AT HELM & LOOKOUT. 0405 A/C TO 299° PGC 280° PSC. R/S TO 120 RPM. 0437 A/C TO 301° PGC 287° PSC. 0459 PILOT R/L Ø 763° T. 4.2 NM BY RADAR, C/L TO 321° G, 311° PSC. 0522 1/5 TO 130 RPM. 0531 SW PT KUGGED 1. Ø 062° T. 2.0 NM, C/L TO 000° T. 0537 W. PT. KUGGED 1. Ø 090° T, C/L TO 024° PGC 072° PSC. 0616 A/C 070° G. IRAN DOK PT Ø 090° T, 1.1 NM. 0618 CHALKS HD LT Ø 270° T, 1.1 NM, C/L TO 350° T. 0610 1/5 TO 60 RPM. 0652 UAGS. CSE AND SPIES APPROACHING SOWARD. 0712 ALL STOP. 3. END SECURED PER Ø 335° T. 1.5 NM. 0744 WATCH RELIEVED BY 3/M SCANLAND *for Shift c/m.*

0800-1200 E. SCANLAND ON WATCH W/AB'S GOODMAN AND WYLIE. 0746 SMALL BOAT ALONGSIDE. STEVEN HARTS AND TOM SMITH ABOARD FOR TOUR. 0832 SMALL BOAT DEPARTS W/SUBTIEIC PERSONNEL BUSBY AND CLARK. 0858 LAUNCH ALONGSIDE. 0927 LAUNCH AWAY W/HARTS, SMITH, AND SCIENGE PARTY ^{LADD} KEARD AND TONGEWARD. U/W 0930. 0937 8/T SECURE. 125 RPM. 170° T. 1/5 TO 130 RPM. 1135 COURSE 107° T 105° PGC 089° PSC. 2345 RELIEVED BY 2/M J. GALL. E. Scanland

12-16 J. GALL ON WATCH. A/B'S BOWEN AND MULLER AT HELM/LOOKOUT. U/W AS BEFORE. FIRE X FINGERS INSPECTED TAW 46 C/F 97-15.60 (a). ALL IN GOOD ORDER. 3/M E. SCANLAND 1408 C/L TO 090° T, STEERING 087° PGC / 075° PSC. 1545 RELIEVED BY 2/M J. STALL *for Shift*

1600-2000 J. STALL ON WATCH WITH A/B'S PERRY & MERRIMAN AT HELM & LOOKOUT. U/W AS BEFORE. 1730 HOLE TO ON STA 'BANDUS'. 159° 35.2' N X 147° 01.2' W. 1756 CTD IN THE WATER. 1758 CTD ↓, 159° 35.17' N X 147° 01.10' W. 1805 CTD ↑, 209 DB. 1821 CTD ON DECK. 1825 HDG 095° G, SPD 1.8 KTS. BUNKER NETS STREAMED AFT. 1851 B. NETS ON DECK. 1857 1/5 TO 60 RPM. 1857 1/3 TO 130 RPM. A/C TO 090° PGC 079° PSC. 1915 A/C TO 088° G 076° PSC. 1930 DAVITS AND LIFERAFTS EXERCISED/ INSPECTED TAW 46 C/F 199.190 (d). 3/M E. SCANLAND. SSDG #4 SECURED. SSDG #1 ON LINE. 1945 WATCH RELIEVED BY 3/M SCANLAND. *for Shift c/m.*

2000-2400 E. SCANLAND ON WATCH W/AB'S GOODMAN AND WYLIE. U/W AS BEFORE. 2050 C/L TO 111° T 111° PGC 094° PSC. 2020 ROUND COMPLETE. ALL SECURE. 2315 ALL SECURE. 2325 SECURE M/E #3. POSITION FOR STA EN01. 2345 RELIEVED BY 2/M J. GALL. E. Scanland

for Shift

FIRST OFFICER

for Shift

MASTER

R/V KILO MOANA ZONE DESCRIPTION +8(0) DATE MON 12 MAY 2003
ATION CRUISE KM0309 FOCI 2242 BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01														
02	ON STATION		BCST	8	260	16	260	SLT	MIX	6	45	42	SC	10
03														
04	ON STATION		BCST	8	255	16	255	SLT	050°/270	8/5	45	42	SC	10
05														
06	175	137	0537 BKT	8	235	10	235	SLT	060°/260	6/6	45	41	SC	10
07														
08	ON STATION		CLDY BKT	8	260	12	260	SLT	CONF	5	46	42	SC	9
09														
10	175	176	137	8	245	15	245	SLT	185	5	45	41	CU	4
11														
12	ON STATION		CLDY	8	250	15	250	SLT	CONF	5-6	48	43	CU	3
13														
14	ON STATION		CLDY	8	255	14	255	SLT	CONF	6	47	44	CU	6
15														
16	176	176	135	8	245	11	245	SLT	CONF	5	52	46	CU	6
17														
18	ON STATION		CLDY	8	W'LY	05	260	RIP	CONF	4	47	44	CU	7
19														
20	175	175	138	7	SW'LY	06	SW	RIP	CONF	4	45	41		
21														
22	180	174	137	6	160	6	160	RIP	CONF	4	44	39	ST	10
23														
24	ON STATION		CLDY 0537	6	LT AIRS	—	—	—	CONF	4	44	41	ST	10

STEAMING TIME	TOTAL STATION TIME		DISTANCE MILES	TOTAL DISTANCE MILES	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
	HR.	MIN.			GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
00	00	00	59.4	1366.7	1633	55696	0	490		7104

STATION TIME	DETECTION		COMPASS ERROR	DRAFT	FUEL OIL RECEIVED	LUB. OIL RECEIVED	FRESH WATER RECEIVED
	HR.	MIN.					
24	00	00	GYRO	DEPARTING	ARRIVING	GAL.	GAL.
TOTAL STATION TIME		TOTAL DETECTION	STAND.	P.W.D.	TYPE	TREATED	YES
HR.	MIN.						
09	14	50	7	30	DEV.	AFT.	NO

WY DEUTY TOTAL 194 00M

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 2 ELECTRONIC 3 VISUAL 4 D.R.

TIME	0400	TYPE OBS.	2	1200	2	TIME	2000	TYPE OBS.	2
LATITUDE	59°12.5'N			58°51.3'N			58°22.19'N		
LONGITUDE	145°15.2'W			145°14.9'W			145°15.12'W		

REMARKS

00-04 J. KILL ON WATCH. AGS 50055 AND MILLER ASSISTING w/ DECK OPERATIONS. UNUSUAL
ON CRUISE (KM0309) 2242. GWS # 1/2 ONLY. MOVE TO @ SEA AWS 1. SWITCHEL TO # 1
SERVING PUMPS. 2349(11) CTD DEPLOYED. 0001 POS: 59°23.11'N 145°15.3'W. 0025 BT ON-
LINE. 0201 CTD ON DECK, BT SECURED. 0203 ST CDS 170° F FOR SEA AWS 2. 0306 BT
ONLINE. 0317 MOVE TO @ SEA AWS 2. 0319 CTD DEPLOYED. 0345 RECEIVED BY C/M J. SMITH
0400-0800 J. SMITH ON WATCH WITH AGS. PERRY & WICKERMAN AFT AT WINDH & CRANK. W/AS BEFORE.
0353 CTD AWST ENDS 2 RESTARTED, 159°12.52'N 145°15.20'W. 0546 CTD ON DECK. 0547 C/L
TO 175° PGC 137° PSC. 1/5 TO 100 RPM. 0704 MOVE TO @ SEA ENDS 3. 0706 CTD IN THE WATER.

REMARKS

PAGE No. 24

0709 CTD ↓ 159°02.02'N ↑ 145°15.05'W. 0745 WATCH RELIEVED BY 3/m SCANLAND.
still calm.

0800-1200 E. SCANLAND ON WATCH W/ABO3 WYLIE AND GOODMAN ON STA AS BEFORE. CTD ABOARD 0858. 0902 BONGO DEPLOYED AT 59°01.97N 145°15.54W. 0927 BONGO ON DECK. B/T SECURE. COURSE 175°T 176°PGL 137°PSC AND 100 RPMs FOR SITE ENS4. 1050 B/T ON LINE. 1050 CTD ENS4 DEPLOYED AT 58°51.47N 145°14.9W TO 2000 DB. 21143 RELIEVED BY 2/m J. GALL. 2 Scanland

12-16 5/m GALL ON WATCH. ABS BUNNIS AND MILLER ASSISTING w/ DECK OPERATIONS - CTD CAST IN PROGRESS @ 58°46'N 145°15.05'W. 1227 BT SECURED. 1236 CTD ON DECK. 1239 325 0252 179°T FOR 58°46'N 145°15.05'W. 1342 HALL TO @ 58°46'N 145°15.05'W. 1345 CTD DEPLOYED. 1456 RESCUE BOAT RUN AHEAD/EASTERN. INSPECT DAVIT AND HOOK, ALL IN GOOD ORDER. JAW 46 CFS 199 190 (1) + (2). 3/m SCANLAND 1515 BT SECURED. 1526 CTD ON DECK. 1530 DEPTH # 37492 DEPLOYED @ POS: 58°40.00N 145°15.9W. 1533 325 0252 176°T FOR 58°46'N 145°15.05'W.

1600-2000 J. STILL ON WATCH U/W AS BEFORE. ABS PERRY & MERRIMAN AT HELM & LOOKOUT. 1620 PERRY & MERRIMAN SENT AFT TO WINDLIFT CRANE. 1624 HALL TO ON STA ENS6. 1636 CTD IN THE WATER. 1640 CTD ↓ 158°30.36'N ↑ 145°15.10'W. 1724 HISTING CTD, 7000m. 1839 CTD ON DECK. 1844 BONGO NETS STREAMED, HDG 060°G, 1.8 KTS. 1906 B. NETS ON DECK. 1908 DRIFTER DEPLOYED: 158°30.00'N ↑ 145°15.46'W. 1909 CTD TO 172°PGL 135°PSC, 1/8 100 RPM. 1945 WATCH RELIEVED BY 3/m SCANLAND
still calm.

2000-2400 E. SCANLAND ON WATCH W/ABO3 GOODMAN AND WYLIE. U/W AS BEFORE. 2016 CTD ENS7 DEPLOYED AT 58°21.82N 145°15.06W TO 2000 DB. 2210 CTD ABOARD. B/T ON LINE FOR CAST. 2224 B/T SECURE. 2303 B/T ON LINE. 2303 COURSE 180°T 174°PGL 137°PSC AND 100 RPMs FOR STA ENS8. 2303 B/T ON LINE. 2318 CTD ENS8 DEPLOYED AT 58°13.09N 145°15.22W. 2345 RELIEVED BY 2/m J. GALL. 2 Scanland

for still

FIRST OFFICER

Bugby Omer

MASTER

RV KILO MOANA ZONE DESCRIPTION +6(0) DATE TUE 13 MAY 2003
ACTION CRUISE KMO305 FOCI 262 BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE		VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO		DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01													
02	ON STATION		4-6	345	12	345	SLS	0000	-	497.9	43	MSF CS	10
03													
04	173	173	4-6	LIGHT AIRS		-		280	5	997.9	41	SPS CS	10
05													
06	ON STATION			330	08	330	RIP	270	5	997.5	42	38 SCALCS	9
07													
08	ON STATION		2/8	LIGHT AIR		-	SWIFT	740	4	997.5	43	41 Ob Cu	6
09													
10	175	175	8	255	15	255	SLS	215	4	998.1	41	40 ST CU	9
11													
12	ON STATION		8	235	8	235	RIP	215	3	998.4	42	39 ST CU	4
13													
14													
15													
16	040	037	032	320	04	320	RIP	240	4	998.7	47	42 CSAC CU	7
17													
18	040	037	032	260	05	260	RIP	240	4	998.0	48	44 Cu Ci	4
19													
20	ON STATION		10	250	06	250	RIP	230	3	998.0	48	43 Cu Ci	7
21													
22	ON STATION		9	215	6	215	RIP	-	3	998.3	43	40 CU	4
23													
24													
STEAMING TIME		TOTAL STEAMING TIME	DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND			
6	30	3 01 05	123.2 MILES	1469.9 MILES	685 GAL.	550.3 GAL.	8 GAL.	490 GAL.		7881 GAL.			

STATION TIME	DETECTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
	MIN.	HR.		DEPARTING	ARRIVING						
17	30										
TOTAL STATION TIME		TOTAL DETECTION	STAND.	PWD.	PWD.	TYPE	CO.	TYPE	CO.	TREATED	YES NO
10	08 20	7 30		DEV.	AFT.						

WX 52241 TOTAL 1914 00M											
POSITION BY OBSERVATION											
LEGEND 1 CELESTIAL 3 VISUAL 2 ELECTRONIC 4 D.R.											
TIME 0400	TYPE OBS. 2		1200 2		TIME 2000		TYPE OBS. 2				
LATITUDE 58°02.1'N		LATITUDE 57°38.4'N		LATITUDE 58°38.4'N		LONGITUDE 143°38.1'W					
LONGITUDE 145°16.8'W		LONGITUDE 145°15.2'W		LONGITUDE 143°38.1'W							

REMARKS

00-04 J. CAL ON WATCH. ASS BRWST AND MILNTE ASSISTWTH W/ DECK OPERATIONS.
UNANNY ON CRUISE KMO305 LIA 2. GWS# 1/2 ONLWE, HOVE TO E STA GWS 8, CTD
CAST IN PROGRESS. SWITCHED TO #2 STEERING PUMPS. 0001 POS: 58°13.1'N 145°16.1'W.
0055 BT SECURED. 0059 CTD ON DECK. 0104 ST CRSE 173°T FOR STA GWS 9. 0148 BT
ONLW. 0200 HAVT TO E STA GWS 9. 0202 CTD DROLD. 0338 CTD ON DECK. 0342
ST CRSE 173°T FOR STA GWS 10. 0345 BT SECURED, RELIEND BT C/M T. STANL
0400-0800 J. STANL ON WATCH WITH APPS PERRY & WIERBURNAL AT HELM & LOGSMT. UNW AS BEFORE.

0430 ABS SENT AFT TO OPERATE CRANE & WINCH CONTROLS. 0440 HALL TO ON STA ENS 10. 0447 CTD IN THE WATER. 0450 LAUNDERING CTD L 57°55.64'N X 145°14.89'W. 0532 HOISTING CTD, 2000M WAT DEPTH. 0630 CTD ON DECK. 0637 C/C TO 178° PGC 140° PSC, 1/5 TO 100 RPM. 0738 HALL TO ON STA ENS 11. 0740 CTD IN THE WATER. 0744 LAUNDERING CTD, L 57°47.03'N X 145°14.96'W. 0745 WATCH PROPERLY RELIEVED BY 3/m SCANLAND. *[Signature]* c/m

0800-1200 E. SCANLAND ON WATCH W/ABS WYLIE AND GOODMAN. ON STATION AS BEFORE. 0920 ON DECK. 0929 BONGO ENS 11 DPLYD AT 57°46.45N 145°15.46W TO ~~0920~~ 0954 ON DECK. SET COURSE FOR STA ENS 12, 175°T 172° PGC, 34° PSC AT 100 RPM. M/E #2 + 3 ON LINE. 1102 CTD ENS 12 DPLYD AT 57°38.74N 145°14.99W. 1141 WATCH RELIEVED BY 2/m J. GALL. *[Signature]* Scanland

12-16 5 HALL ON WATCH. ABS REMUSC AND MULLER ASSISTING w/ DECK OPERATIONS. CTD C15T IN PROGRESS. 1205 BT SECURED. 1230 SAFETY TRAINING COMPLETED. SEC PARTY MUSTERS IN LAB #2 FOR IMMERSION SUIT INSTRUCTION AND DROWNING PRACTICE, CONDUCTED BY 3/m AND 2/m MATE. SHIPS CREW MUSTERED ON AFT DECK TO REVIEW FLOODING AND DROWNING PROCEDURES, COMPLETED BY C/M AND 2/E. DEWATERING PUMP TESTED AND DEMONSTRATED. 1310 TRAINING SESSION COMPLETED. 1257 CTD ON DECK. 1300 SET COURSE 044°T, RPMs TO 80. 1307 GEN #1 ONLY (1,2,3 ONLY) INCREASE RPMs TO 125. 1310 C/C TO 040°T. STARTING 037 PGC / 032° PSC. 1545 RELIEVED BY C/M J. SCANLAND. *[Signature]*

[Signature]

1600-2000 J. STAHL ON WATCH WITH ABS PERRY & IMMERMAN AT HELM & LOOKOUT. W/L AS BEFORE. 1630 SSDG #4 ON LINE. SSDG #1 SECURED. 1933 SLIDED ON APPROACH TO STA. 1940 HALL TO ON STA ENS 1. L 58°38.51'N X 143°38.01'W. 1945 WATCH RELIEVED BY 3/m SCANLAND. *[Signature]* c/m. (LATE ENTRY: 1940 SECURED SSDG #4.)

2000-2400 E. SCANLAND ON WATCH W/ABS WYLIE AND GOODMAN. 1954 CTD ENS 12 DPLYD AT 58°38.45N 143°38.06W. 2150 ON DECK. *LATE ENTRY: EM GEN. RUN 2130 2156 BONGO DPLYD AT 58°39.23N 143°41.87W. 2226 BONGO ABOARD. COURSE 264°T 262° PGC. 2226° PSC AND 100 RPMs FOR STA ENS 2. 2240 INCLINATOR LIT OFF. 2313 M/E 3 SECURE #1 ON LINE. 2338 CTD DPLYD AT 58°38.4N 143°57.3W. 2345 RELIEVED BY 2/m J. GALL. *[Signature]* Scanland

[Signature]

FIRST OFFICER

[Signature]

MASTER

RV Kilo Moana

ZONE DESCRIPTION +8(0)

DATE WED 14 MAY 2003

ACTION CRUISE KCM0309 F001 L242

BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01															
02	273	273	247	CLDY	10	200	07	200	RIP	230	6	44	39	CU	6
03															
04	ON STATION			PODY	10	180	01	180	RIP	230	6	44	39	CUS	4
05															
06	215	215	240	PODY	10	140	04	-	RIP	230	6-8	43	39	CU	4
07															
08	ON STATION			CLDY	10	LIGHT AIRS	-	SWIFT	230	230	6-8	46	41	CU	8
09															
10	ON STATION			CLDY	8	LT AIRS	-	RIP	230	230	6-8	45	42	ST CU	6
11															
12	ON STATION			CLDY	8	LT AIRS	-	SMTH	215	215	6	44	41	CU	9
13															
14	ON STATION			CLDY	8	190	06	190	RIP	240	7-10	46	44	SSC	7
15															
16				CLDY	8	220	05	220	RIP	240	7-10	48	43	SSC	5
17															
18	ON STATION			PODY	10	280	06	280	RIP	230	8-10	44	41	CU	4
19															
20	ON STATION			PODY	10	LIGHT AIRS	-	SWIFT	240	240	6-8	45	42	CU	4
21															
22	ON STATION			CLDY	10	LT AIRS	-	MERMA	230	230	6-8	47	43	SC	7
23															
24	ON STATION			CLDY	9	130	8	-	RIP	205	6	44	41	SC	9
STEAMING TIME	HR.	MIN.	SEC.	TOTAL STANDING TIME	DAYS	HR.	MIN.	DISTANCE MILES	TOTAL DISTANCE MILES	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
0	00	00	00	3	01	05	05	61.7	1551.6	1862	53181	60	430	7249	0

STATION TIME	DETECTION		COMPASS ERROR	DRAFT	FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
	HR.	MIN.			DEPARTING	ARRIVING	QAL	QAL	TREATED	YES
24	00	00								
TOTAL STATION TIME	HR.	MIN.	SEC.	DEV.	FT.	FT.	CO.	CO.	NO	NO
11	08	20	30							

WV DELAY TOTAL 194 00M

POSITION BY OBSERVATION

LEGEND 1 CELESTIAL 2 ELECTRONIC 3 VISUAL 4 D.R.

TIME 0400	TYPE OBS. 2	1200	2	TIME 2000	TYPE OBS. 2
LATITUDE 58°36.5'N	LATITUDE 58°37.5'N	LATITUDE 58°38.1'N	LATITUDE 58°38.1'N	LATITUDE 58°38.1'N	LATITUDE 58°38.1'N
LONGITUDE 144°17.2'W	LONGITUDE 145°00.0'W	LONGITUDE 145°00.0'W	LONGITUDE 145°00.0'W	LONGITUDE 145°00.0'W	LONGITUDE 145°00.0'W

REMARKS

00-04 J. STALL ON WATCH. ABS BRWST AND MILITARY ASSISTANCE W/ DICK OPERATIONS.
 UNDERWAY ON CRUISE KCM0309 CTD 2. 4205# 1/2 ONLINE, HAVE TO @ SEA 84W 2, CTD
 EAST IN PROGRESS. SWITCHED TO #1 STATIONARY PUMPS. 0001 POS: 58°38.2'N 143°57.0'W.
 0139 CTD ON DECK, 0142 SET CRSE 273°T FOR SEA 84W 3. 0252 HAVE TO @ SEA 84W 3
 FOR DEPT CHECK. 0301 CTD DROPTED. 0345 RELIGIOUS BY C/M J. STALL

0400-0800 J. STALL ON WATCH WITH ABS. PERRY & MERRIMAN AFT AT CRANKLE & LINDA OPERATION. 0410
 AS BEFORE. 0353 HURSTING CTD, 2400M MAX DEPTH. 0507 CTD ON DECK. 0509 CTD 275° PGC 748°
 PGC, 1/5 TO 100KPM. 0615 HAVE TO ON SEA 84W 4. 0616 CTD IN THE WATER. 0619 UNDERWAY CTD.

REMARKS

PAGE No. 26

158°38.45'N & 144°36.13'W. 0709 HAISTING CTD, 2400M. 0745 WATCH RELIEVED BY
3/M SCANLAND *for c/m.*

0800-1200 E. SCANLAND ON WATCH W/ABO GOODMAN AND WYLIE ON STA AS
BEFORE. O/T SECURED 0805. 0812 CTD FEW4 ON DECK. COURSE 273°T 273°PSC
244°PSC AND 100 RPMs FOR STA FEW5. 0930 O/T ON LINE. 0937 CTD FEW5
DELYD AT 58°38.44N 144°56.99W. 1139 RELIEVED BY 2/M J. GALL. 9 Acanland

12-16 J. GALL ON WATCH. ABS BOWNS AND MILLER ASSISTING WITH DECK OPERATIONS. CTD
CAST IN PROGRESS. 1143 CTD ON DECK. 1145 BS SECURED. 1147 SET CDS 276°T FOR STA
FEW6. 1250 HALL TO O. STA FEW6. 1301 CTD DEPLOYED. 1424 CTD @ 3900M ↑.
1545 RELIEVED BY C/M J. STALL *J. Stall*

1600-2000 J. STALL ON WATCH WITH ABS PERRY & MERRIMAN AFT AT WINCH & CRANE OPERATIONAL.
U/W AS BEFORE. 1606 CTD ON DECK. 1612 OK 272°PAC 245°PSC, 16 TO 100 RPM. 1715 ALL STOP.
1718 CTD LOWERING, 158°38.45'N & 145°37.0'W. 1834 HAISTING CTD FROM MAX DEPTH 4000M.
1945 WATCH RELIEVED BY 2/M SCANLAND *for c/m.*

2000-2400 E. SCANLAND ON WATCH W/ABO GOODMAN AND WYLIE ON STA AS
BEFORE. 2012 CTD FEW7 ON DECK. U/W COURSE 271°T AT 100 RPMs FOR STA FEW8.
2025 ENGINEER LIT OFF. 2128 CTD FEW8 DELYD AT 58°38.49N 145°56.04W.
2345 RELIEVED BY 2/M J. GALL. 9 Acanland

J. Stall

FIRST OFFICER

R. D. Curry

MASTER

RV Kilo Moana ZONE DESCRIPTION +6(u) DATE Tue 15 May 2003
STATION CRUISE Kemo309 FOCI 1442 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE		WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS						
	TRUE	GYRO			STAND. OR STEER.	DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT				
01																			
02																			
03																			
04	ON STATION		CLDY	6	LIGHT AIRS	-	-	225	6	1005.4	44	41	ASCS CU	6					
05																			
06	ON STATION		CLDY	10	LIGHT AIRS	-	CALM	230	6	1005.4	44	41	CUCS	6					
07																			
08	ON STATION		CLDY	10	LIGHT AIRS		CALM	230	6	1006.5	45	43	CUCS	8					
09																			
10	ON STATION		PCLDY	10	LT AIRS	-	CALM	230	4	1008.1	47	43	CU	3					
11																			
12	271	268	339	CLDY	10	LT AIRS	-	CALM	230	4	1007.7	48	44	CIR CU	5				
13																			
14	ON STATION		CLDY	10	LIGHT AIRS	-	-	230	5	1005.1	52	47	CU	7					
15																			
16	267	261	229	CLDY	10	200	05	200	RIP	240/270	4/6	50	46	CSAS CU	6				
17																			
18	ON STATION		PCLDY	10	240	06	240	RIP	270	4	1012.5	50	44	CUAC	5				
19																			
20	ON STATION		PCLDY	10	230	06	230	RIP	270	3	1012.8	48	43	CUAC	3				
21																			
22	268	266	238	CLR	10	230	9	230	RIP	265	6-8	1012.7	48	43	ST	1			
23																			
24	268	266	238	CLR	10	240	6	240	RIP	245	6-8	1014.6	46	45	ST	1			
STEAMING TIME		TOTAL STEAMING TIME		DISTANCE		TOTAL DISTANCE		FUEL OIL CONSUMED		FUEL OIL ON HAND		LUB. OIL CONSUMED		LUB. OIL ON HAND		FRESH WATER CONSUMED		FRESH WATER ON HAND	
HRS.	MIN.	DAYS	HRS.	MIN.	MILES	HRS.	MIN.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
0	00	3	01	05	71.5	1623.1	1548	52183	0	52183	0	0	430	0	430	0	2464	0	2464

STATION TIME		DETECTION		COMPASS ERROR		DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
HRS.	MIN.	HRS.	MIN.	GYRO	GYRO	DEPARTING	ARRIVING	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
24	00												
TOTAL STATION TIME		TOTAL DETECTION		STAND.		FWD.		TYPE		CO.		TREATED	
DAYS	HRS.	MIN.	MIN.									YES	NO
12	08	20	30										

W/ DELAY TOTAL 194 00M				POSITION BY OBSERVATION				LEGEND 1 CELESTIAL 3 VISUAL 2 ELECTRONIC 4 D.R.			
TIME 0400		TYPE OBS. 2		TIME 2000		TYPE OBS. 2					
LATITUDE 58°38.7'N		LATITUDE 58°38.4'N		LATITUDE 58°37.8'N							
LONGITUDE 146°16.8'W		LONGITUDE 147°01.2'W		LONGITUDE 147°56'W							

REMARKS

00-01 TANK ON WATCH HAS BUNKER AND MILK ASSISTANT w/ DICK OPERATIONS. UNDERWAY ON CRUISE Kemo309 1242. HWS # 213 ONLINE, HWS TO E SEA GRWB, CTD EAST W PROBLEMS. SWITCHED TO #2 STERN PUMPS. 0001 POS: 58°38.0'N 145°51.0'W. 0008 CTD ON DICK. 0013 DRAFT # 37504 DISPLAY @ POS: 58°37.80'N 145°57.43'W. 0015 ST STERN, ST CRSE 275° FOR SEA GRWB. 0019 ST ONLINE. 0116 HWS TO E SEA GRWB. 0124 CTD DISPLAY @ POS: 58°38.52'N 146°15.32'W. 0135 ST STERN. 0239 CTD @ 3400 m. 0345 RETURNED BY CLM T-SHALE JF

REMARKS

PAGE NO. 30

0400-0800 J. STAHL ON WATCH WITH ABO PERRY & MERRIMAN AFT AT WINDL & CRANE OPERATIONS. U/W AS BEFORE. 0407 CTD ON DECK. 0409 C/L TO 263° PGC 730° PSC, 1/3 TO 100 RPM. PERRY & MERRIMAN AT HELM & LOOKOUT. 0510 SLAMMED TO APPROACH STA EEW 10. 0520 HAD TO 0521 CTD IN THE WATER. 0524 LOWERING CTD, 158° 38.50' N 146° 35.53' W. 0625 HURSTING CTD, 3400 M. 0744 CTD ON DECK. 0745 HDG 220° PGC, SPD 1.5 KTS FOR B. NET TOW. WATCH RELIEVED BY 3LM SCANLAND. *J. Stahl c/m.*

0800-1200 F. SCANLAND ON WATCH W/ABO GOODMAN AND WYLIE. ON STA AS BEFORE. 0748 0600 EEW 10 DPLYD AT 58° 38.42' N 146° 35.77' W. 0810 0800 ABOARD. CRSE 272° 267° PGC 238° PSC AND 100 RPM. FOR SITE EEW 11. 0927 CTD EEW 11 DPLYD AT 58° 38.49' N 146° 55.65' W. 1129 CTD ON DECK. U/W FOR STA 12 AT 100 RPM. 271° T. 1145 WATCH RELIEVED BY 2/M J. GALL. 3LM SCANLAND

12-16 J. GALL ON WATCH. ABO BOWEN AND MILLER ON SANITARY DUTIES. U/W FOR STA EEW 12, AS BEFORE. 1239 HAD TO 2 STA EEW 12. 1242 CTD DPLYD @ POS: 58° 30.52' N 147° 15.69' W. 1337 CTD @ 2400 M. 1453 CTD ON DECK. 1456 525 CRSE 260° T FOR STA EEW 13. 1545 RELIEVED BY C/M J. STAHL *J. Stahl*

1600-2000 J. STAHL ON WATCH WITH ABO PERRY & MERRIMAN AT HELM & LOOKOUT. U/W AS BEFORE. 1553 ABO SENT AFT TO WINDL & CRANE. 1558 SLAMMED ON APPROACH TO STATION. 1602 ALL STOP, HAD TO ON STA EEW 13. 1605 CTD IN THE WATER. 1608 LOWERING CTD 158° 38.51' N 147° 36.00' W. 1646 HURSTING CTD, 7000 M MAX DEPTH. 1752 CTD ON DECK. 1756 HDG 265° G, SPD 2.0 KTS. BOWEN NETS STREAMED AFT. 1876 B. NET IN DECK. 1838 1/3 TO 100 RPM. (TEMPORARY LASS OF STBD PROPELLER MOTOR. RESTORED BY 1834.) 1932 SLAMMED ON APPROACH TO STA. 1942 HAD TO ON STA EEW 14. 1943 WATCH RELIEVED BY 3LM SCANLAND. *J. Stahl c/m.*

2000-2400 F. SCANLAND ON WATCH W/ABO WYLIE AND GOODMAN. ON STA AS BEFORE. CTD EEW 14 DPLYD AT 1943 AT POS. 58° 37.8' N 147° 55.96' W TO 1570 DB. 2057 B/T SECURE. 2116 CTD ON DECK. 2122 SPD 1.5 KT FOR DRIETER DPLYMNT. 237497 AT 58° 37.77' N 147° 56.1' W 2123 U/W FOR STA EEW 15. 269° T 264° PGC. 235° PSC AT 100 RPM. 2328 CTD EEW 15 DPLYD AT 58° 37.46' N 148° 13.24' W. 2230 B/T ON LINE. CTD TO 822 DB. 2337 ON DECK. 2342 RELIEVED BY 2/M J. GALL. 3LM SCANLAND

J. Stahl

FIRST OFFICER

Richard Amund

MASTER

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE
01															
02	ON STATION			10	280	16	280	SLT	260	7	1016.5	47	43	AS	2
03															
04	274	275	253	10	275	20	275	MOD	260	7	1017.2	47	43	SC	2
05															
06	274	273	252	10	275	20	275	MOD	260	6	1017.2	46	41	-	0
07															
08	277	277	256	10	280	21	280	MOD	260	5	1018.2	47	41	-	0
09															
10	273	273	249	10	275	20	275	MOD	280	5	1019.4	48	43	CLR ST	8
11															
12	274	270	245	10	270	15	270	SLT	290	2	1020.5	48	43	SC ST	4
13															
14	ON STATION				255	16									
15															
16	ON STATION			10	260	16	260	SLT	-	-	1022.6	48	42	CSAS CU	5
17															
18	000	355	353	10	750	08	750	RAP	-	-	1022.0	46	41	ALU ALU	3
19															
20	ON STATION			12	LIGHT AIRS			RIP	-	-	1022.0	46	43	-	0
21															
22	ON STATION			12	170	10	170	RIP	-	-	1022.6	45	42	-	0
23															
24	ON STATION			12	130	8	130	RIP	-	-	1023.5	43	40	-	0
STEERING TIME	MIN.	TOTAL STEERING TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND				
9	30	3	10 35	173.2 MILES	1796.3 MILES	24.6 GAL.	49.765 GAL.	Ø	430 GAL.		7508 GAL.				

STATION TIME		DETENTION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED	LUB. OIL RECEIVED	FRESH WATER RECEIVED	
HR.	MIN.	HR.	MIN.		DEPARTING	ARRIVING			TYPE	YES
14	30			GYRO			QAL	QAL		
TOTAL STATION TIME		TOTAL DETENTION		STAND.	PWD.	PWD.	TYPE		CO.	
DAYS	HR.	MIN.	MIN.	DEV.	AFT.	AFT.	CO.			
12	22	50	7							
			30							

POSITION BY OBSERVATION

2000

LEGEND

1	CELESTIAL	3	VISUAL
2	ELECTRONIC	4	D.R.

TIME 0400	TYPE OBS. 2	1200	Z	TIME 59°01.2 N	TYPE OBS. 2
LATITUDE 58°36.6' N		LATITUDE 58°41.2 N		LATITUDE 58°41.2 N	W
LONGITUDE 148°53.7' W		LONGITUDE 151°44.3 W		LONGITUDE 152°14.3 W	

REMARKS

00-04 T-FALL ON WATERS. ABS SQUAD AND MINOR ASSISTANCE w/ DICK OPERATIONS ON DUNWAY ON ARRIVAL KM0809 1742. FMS #2/S OULWZ, 1404Z TO @ SFA 42W15, CTD 0455 JUST COMPLETED. 2348 (15) 315 CRSE 260° FOR SFA 42W16, 85 SECORNS. 0001 POS. S8°36.7N 148°19.1W SWITZLAND TO #1 STATIONARY PUMP. 0021 85 OULWZ. 0025 HAVZ TO @ SFA 42W16, 0030 CTD DEPLOYED @ POS: S8°37.1N 148°26.8W, 0032 ARR805T VMS COMPTRE. 0054 CTD ON DICK. 0056 SFA CRSE 255° FOR SFA 42W17, 0110 HAVZ TO @ SFA 42W17. 0112 CTD DEPLOYED @ POS: S8°36.95N 148°30.10W. 0134 CTD ON DICK. 0136 SFA CRSE 260° FOR SFA 42W16, 0154 HAVZ TO @ SFA 42W16. 0156 CTD DEPLOYED @ POS: S8°36.78N 148°33.86W. 0214 CTD ON DICK. 85 SECORNS. 0216 SFA CRSE 270° FOR SFA 42W17. 0223 POS. 0322 85 OULWZ. 0330 HAVZ TO @ SFA 42W17, 0334 CTD DEPLOYED @ POS: 0000 TO 1000.

REMARKS

PAGE No. 32

58° 36.72 N 148° 52.90 W. 0338 STEPS MOTOR SHUT DOWN. 0342 STEPS MOTOR BACK ON -
LINE. 0345 RELIEVED BY C/M J. SCALL, CTD ASST IN PROGRESS. *J. Scall*

0400 - 0800 J. SCALL ON WATCH WITH A/Bs PERRY & MERRIMAN AT HELM & LOOKOUT. U/L AS BEFORE.
0354 CTD ON DECK. 0358 DECKS SECURED. C/L 275° PGC. 253° PSC. 1/8 TO 96 RPM. 0406 SSG #1
ON LINK. 1/8 TO 175 RPM. 0732 A/LC TO 277° PGC. 256° PSC. 0745 WATCH RELIEVED BY 3/M SCALLAND.
for Scall c/m.

0500 - 1200 E. SCALLAND ON WATCH W/ A/Bs GOODMAN AND WYLIE U/L AS BEFORE.
274° T. 125 RPM. 1143 RELIEVED BY 2/M J. GALL. E. SCALLAND

12-16 J. GALL ON WATCH. A/Bs GUNNIST AND MICKLE AT HELM / LOOKOUT. U/L AS BEFORE.
1248 C/LC TO 260° PGC FOR APPROACH TO STATION 525 (ADDED TO STA LIST @ 1220).
1300 C/LC TO 255° PGC. 1320 APPROACHING. STA 525, VARIOUS CASES AND RPMs. 1330 85 RPM. U/L
1337 ALL STOP FOR DRIFT CHECK. 1358 CTD DEPLOYED @ POS: 58° 34.91 N 152° 24.63 W. 1411 CTD
ON DECK. 1412 525 CASE 013° T FOR STA 524. 1443 HALL TO @ 554 524. 1444 CTD DEPLOYED
@ POS: 58° 42.24 N 152° 23.75 W. 1500 CTD ON DECK. 1503 525 CASE 012° T FOR STA 523.
1525 HALL TO @ 554 523. 1528 CTD DEPLOYED @ POS: 58° 44.62 N 152° 22.70 W. 1546 CTD
ON DECK. RELIEVED BY C/M J. SCALL. *J. Scall*

1600 - 2000 J. SCALL ON WATCH WITH A/Bs PERRY & MERRIMAN AFT AT CRANE & WING. U/L AS BEFORE.
1548 C/LC TO 006° T. 1/8 TO 100 RPM. 1618 HALL TO ON STATION SE 2. 1620 CTD LAUNCHING L 58° 46.97 N
152° 21.71 W. 1638 CTD ON DECK. M. DEPTH 135m. 1639 C/LC TO 006° T. 1/8 TO 100 RPM. 1704 HALL
TO ON STA SE 1. SECURED SSG #3. 1707 CTD IN. U/L 58° 44.13 N 152° 20.58 W. 1722 CTD
ON SURFACE. 1725 CTD ON DECK. C/LC TO 320° PGC. 1/8 TO 100 RPM. 1734 A/LC TO 313° PGC. 1739
A/LC TO 307° PGC. 1750 A/LC TO 310° PGC. 1758 C/LC TO 000° T. 353° PGC. 350° PSC. 1815 W. PT. USHAGAT
1. 040° T. 2.4 NM. 1833 NW PT. USHAGAT 1. 040° T. 3.65 NM. C/LC TO 055° T. 052° PGC. 1844 C/LC
TO 040° T. 1900 SLOWED FOR STA. 1913 HALL TO, CTD IN. 1914 CTD U/L 58° 59.00 N 152° 18.00 W. 1918 CTD 1
78m. 1926 CTD ON DECK. SECURED. C/LC 041° T. 036° PGC. 1/8 TO 100 RPM. 1940 SLOWED FOR STA KE6. 1945
WATCH RELIEVED BY 3/M SCALLAND.
for Scall c/m.

2000 - 2400 E. SCALLAND ON WATCH W/ A/Bs WYLIE AND GOODMAN. POSITION FOR
STA. 1956 CTD KE6 DEPLOYD AT 59° 01.22 N 152° 14.3 W TO 127 DB. 2011 ON DECK.
NE. 2.6 NM TO STA KE5. 2045 CTD KE5 DEPLOYD AT 59° 03.6 N 152° 12.13 W TO
128 DB. 2059 ON DECK. COURSE NE. 3.3 NM TO KE4. 2137 CTD DEPLOYD AT
59° 06.47 N 152° 09.6 W TO 150 DB. 2153 ON DECK. NEXT SITE. 2 NM. NE. 2.220
CTD KE3 DEPLOYD AT 59° 08.38 N 152° 07.65 W. 2235 ON DECK. COURSE NE. 100
RPMs FOR KE2. 2311 CTD DEPLOYD AT 59° 11.66 N 152° 04.48 W. 2324 ON DECK.
COURSE 31° T AND 100 RPMs FOR STA KE1. 2345 MOVE TO ON STA. RELIEVED
BY 2/M J. GALL. E. SCALLAND

for Scall

FIRST OFFICER

for Scall

MASTER

RV Kilo Moana ZONE DESCRIPTION +6(V) DATE SAT 17 MAY 2003
ACTION CRUISE KM0309 F001 0842 BERTH _____

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS		
	TRUE	GYRO	STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	BARO.	DRY BULB	WET BULB	TYPE	AMOUNT
01																
02	109	109	093	CLD	10	140	09	140	RIP	-	-	1024.2	43	41	-	-
03																
04	049			CLD	8	150	09	150	SLT	-	-	1025.1	44	40	SC	7
05																
06	ON STATION			OPST	8	135	11	135	SLT	-	-	1026.0	44	39	SCAC	10
07																
08	ON STATION			OPST	8	115	11	115	SLT	250	2	1026.5	44	41	SC	10
09																
10	ON STATION			CLD	10	135	10	135	RIP	205	2	1027.1	43	38	SC	10
11																
12	ON STATION			CLD	10	080	13	110	RIP	200	2	1028.7	43	38	CU	10
13																
14	ON STATION			OPST	10	130	13	130	SLT	-	-	1028.6	45	42	AS SC	10
15																
16	ON STATION			CLD	8	115	21	115	SLT	-	-	1028.5	47	43	AS SC	9
17																
18	ON STATION			CLD	10	105	18	105	SLT	-	-	1027.0	46	41	ASAC	9
19																
20	267	267	240	CLD	10	090	17	090	SLT	-	-	1027.0	44	40	SCAC	8
21																
22	146	148	119	CLD	8	100	20	100	MOD	150	4	1027.3	43	40	SCCU	10
23																
24	143	140	114	CLD	8	080	20	080	MOD	-	-	1026.7	44	41	ST	10

TIME HRS.	STEAMING TIME	TOTAL STEAMING TIME		DISTANCE MILES	TOTAL DISTANCE MILES	FUEL OIL CONSUMED		FUEL OIL ON HAND	LUB. OIL CONSUMED		LUB. OIL ON HAND	FRESH WATER CONSUMED		FRESH WATER ON HAND
		MIN.	SEC.			MIN.	SEC.		MIN.	SEC.		MIN.	SEC.	
7	00	3	17	35	114.3	1910.6		48263	0		430			6331

STATION TIME	DETERMINATION		COMPASS ERROR	DRAFT		FUEL OIL RECEIVED		LUB. OIL RECEIVED		FRESH WATER RECEIVED	
	MIN.	SEC.		MIN.	SEC.	MIN.	SEC.	MIN.	SEC.	MIN.	SEC.
14	03										
TOTAL		TOTAL		TOTAL		TOTAL		TOTAL		TOTAL	
13	12	50	7	30							

POSITION BY OBSERVATION				LEGEND			
TIME	0400	TYPE OBS.	2	TIME	2000	TYPE OBS.	3
LATITUDE	59°04.6'N			LATITUDE	58°35.8'N		
LONGITUDE	151°11.9'W			LONGITUDE	151°26.0'W		

REMARKS

00-04 J. CALLED ON WATERS. ABS GROUND AND MILLER ASSISTING WITH DUCK OPERATIONS.
UNDERWAY ON CRUISE KM0309 0842, GWS # 1/2 ONLWZ, H.02 TO 0.50 1001, 2350 DRS
COMPUTED OBSERVATION - SOUTHERN HAZARD. 0001 POS: 59°14.0'N 152°02.1'W, SWIFTNESS TO # 2
STATIONARY PUMPS. 0003 CTD DEPTHS @ POS: 59°14.0'N 152°02.1'W. 0015 GWS # 3 0404H
ONLWZ (GWS 1/2/3 ONLWZ), 35 SECURMS, 0018 CTD ON DUCK, 0023 SRT PUMPS 180° TURN
INCREASE PUMPS TO 125, STEERING 170° PAC, 136° PAC, 0115 CTD TO 135° T, 0120 CTD TO 109° F
STEERING 109° PAC, 093° PAC, 0224 PORT RLC @ 010° T @ 4.0 NM, 0230 SECURMS PUMPS 180°
ALL IN 0050, 0235 CTD TO 090° TURN, STEERING 090° PAC / 077° PAC, 0330 CTD TO 049°
TURN, STEERING 049° PAC / 042° PAC, 0345 RECEIVED 54 CLM J. STANLEY J. J. J.

R/V Kilo Moana ZONE DESCRIPTION +6(0) DATE SUN 16 May 2003
ACTION CRUISE KMO309 FOCI 0262 BERTH

WEATHER OBSERVATIONS

TIME ZONE	COURSE			WEATHER	VISIBILITY	WIND		SEA		SWELL		TEMP.		CLOUDS	
	TRUE	GYRO	STAND. OR STEER.			DIRECT.	FORCE	DIRECT.	CONDIT.	DIRECT.	HEIGHT	DRY BULB	WET BULB	TYPE	AMOUNT
01															
02	180	173		OCS	8	090	23	090	MOD	UNOB	7	1025.2	43	ST	10
03															
04	237	230	108	OCS	8	090	22	090	MOD	150	7	1025.9	43	ST	10
05															
06	237	236	108	CLDY	8	095	23	095	MOD	150	7	1024.5	45	41 SEAR	9
07															
08															
09															
10	FUELING			OCAST	-	045	10	-	-	-	-	1025.6	47	43 ST	10
11															
12															
13															
14															
15															
16															
17															
18															
19															
20	MIDRED			OBT RAIN	5	045	12	-	-	-	-	1025.4	46	43 ASR	10
21															
22	MIDRED			OCAST DEZ	-	035	10	-	-	-	-	1026.0	44	43 ST	10
23															
24															

STEAMING TIME	TOTAL STEAMING TIME		DISTANCE	TOTAL DISTANCE	FUEL OIL CONSUMED	FUEL OIL ON HAND	LUB. OIL CONSUMED	LUB. OIL ON HAND	FRESH WATER CONSUMED	FRESH WATER ON HAND
HR.	MIN.	SEC.	MILES	MILES	GAL.	GAL.	GAL.	GAL.	GAL.	GAL.
11	30		72.0	1902.6						

STATION TIME	DETECTION		COMPASS ERROR	DRAFT	FUEL OIL RECEIVED		FRESH WATER RECEIVED	
HR.	MIN.	SEC.			ARRIVING	DEPARTING	TYPE	AMOUNT
0	00				50000			
TOTAL STATION TIME		TOTAL DETECTION	STAND.	PMD.	TYPE	CO.	TREATED	YES NO
DAYS	HRS.	MIN.	SEC.	DEV.	AFT.	AFT.		
13	12	50	7	30				

WX DATA TOTAL 19:00				POSITION BY OBSERVATION				LEGEND 1 CELESTIAL 2 ELECTRONIC 3 VISUAL 4 D.R.			
TIME 0400		TYPE OBS. 2		1200		TIME		TYPE OBS.			
LATITUDE 57° 56.4' N		LATITUDE		LATITUDE		LATITUDE					
LONGITUDE 151° 40.6' W		LONGITUDE		LONGITUDE		LONGITUDE					

REMARKS

00-01 5.64H ON WATER. ABS. 62W51' AND MILLER 15' H2O/L. LOOKOUT. UPD 0200WY ON
COURSE KMO309 124.2, APPROX 7.5 NM NE OF MARMOT ISLAND, UJW FOR KADAK, 2348(17)
WORMS TO 65. 0001 PAS: 58° 16.9' N 151° 32.8' W, COURSE 144° TRUE. SWITCHING TO
#1 STEERWHL PUMPS. 0025 C/L TO 180° TRUE, REDUCE RPMs TO 75, STEERWHL 165° PAC, 132° PSC
0107 C/HOLD TO 170° PAC, 0127 C/HOLD TO 173° PAC, 0200 REDUCE RPMs TO 60. 0235 CHANGE
COURSE TO 237° TRUE, REDUCE RPMs TO 55 - STEERWHL 240° PAC, 0247 C/HOLD TO 230° PAC,
0300 SECURITY BOUNDS MSG - ALL W OBSER. 0325 INC RPMs TO 65, 0345 REDUCED 84 CLM
G. SUHLE *[Signature]*

