

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18ZD +7 (w)

RADYO

DATE	ZT	LAT	LON	EVENT
8 SEP 08	0900	34° 05.2 N	119° 17.9 W	
	1000	34° 08.4 N	119° 31.9 W	
	1100	34° 13.3 N	119° 37.7 W	
	1200	34° 13.3 N	119° 37.7 W	
	1300	34° 13.3 N	119° 37.7 W	
	1400	34° 13.3 N	119° 37.7 W	
	1500	34° 13.3 N	119° 37.7 W	
	1629	"	"	BLUEFIN AUV ↓
	1729	"	"	BLUEFIN AUV
	1800	34° 15.3 N	119° 37.6 W	
	1900	34° 15.3 N	119° 37.6 W	
	2000	34° 13.2 N	119° 37.6 W	
	2100	"	"	
	2200	"	"	
	2300	34° 14.4 N	119° 43.2 W	
9 SEP 08	0000	34° 15.0 N	119° 47.4 W	
	0100	34° 14.3 N	119° 42.3 W	
	0200	34° 14.7 N	119° 44.9 W	
	0300	34° 14.4 N	119° 44.5 W	
	0400	34° 15.1 N	119° 42.5 W	
	0500	34° 14.3 N	119° 42.1 W	
	0600	34° 13.3 N	119° 37.7 W	
	0622	"	"	MASCOT ↓
	0647	"	"	MASCOT AUV
	0700	"	"	
	0740	34-13.0 N	119-37.4 W	on station for AUV
	0745	"	"	AUV ↓
	0749	"	"	AUV ↑
	0756	"	"	AUV ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KH 08-18ZD +7

RAD40

DATE	ZT	LAT	LON	EVENT
09/09/08	0820	34-13.3N	119-37.6W	on station
	0840	"	"	SKIMMER ↓
	0858	34° 13.2 N	119° 37.6 W	MASCOT ↓
	0900	"	"	
	0921	"	"	MASCOT ↑
	0926	"	"	MASCOT ↓
	0948	"	"	MASCOT ↑
	0951	"	"	MASCOT ↓
	1000	"	"	
	1014	"	"	MASCOT ↑
	1023	"	"	MASCOT ↓
	1044	"	"	MASCOT ↑
	1055	"	"	RAD CAM ↓
	1100	"	"	
	1102	"	"	RAD CAM ↑
	1108	"	"	SKIMMER ↑
	1122	34° 13.3 N	119° 37.6 W	RADCAM ↓
	1150	34° 13.2 N	119° 37.4 W	RAD CAM ↑
	1200	34° 13.2 N	119° 37.6	
	1203	"	"	HYPER PRO ↓
	1216	34° 13.2 N	119° 37.5	HYPER PRO ↑
	1232	"	"	MASCOT ↓
	1253	"	"	CTD SICI ↓
	1700	34° 13.2 N	119° 37.5 W	
	1704	"	"	TRANSDUCER ↓ OFF STERN
	1707	"	"	TRANSDUCER ↑
	1346	"	"	CTD SICI ↑
	1353			MASCOT ↑
	1400	34° 13 N	119° 37.2 W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18ZD +7

RAD YO

DATE	ZT	LAT	LON	EVENT
9 SEP 08	1500	34° 13.2N	119° 37.6W	
	1542	34° 13.2N	119° 37.6W	RAD CAM ↓
	1600	34° 13.2N	119° 37.8W	
	1608	34° 13.2N	119° 37.9W	RAD CAM ABD
	1629	34° 13.3N	119° 37.8W	MASCOT ↓
	1648	34° 13.3N	119° 37.7W	" ABD
	1655	34° 13.26N	119° 37.76W	" ↓
	1718	34-13.1N	119-38.0W	MASCOT ↑
	1800	34° 14.4N	119° 42.8W	
	1900	34° 15.3N	119° 49.0W	
	2000	34° 14.5N	119° 43.5W	
	2100	34° 14.5N	119° 43.7W	
	2200	34° 15.0N	119° 46.3W	
	2300	34° 14.8N	119° 45.4W	
10 SEP 08	0000	34° 14.8N	119° 45.4W	
	0100	34° 14.8N	119° 45.4W	
	0200	34° 14.9N	119° 45.7W	
	0300	34° 14.1N	119° 41.9W	
	0406	34° 13.3N	119° 37.65W	CTD ↓
	0426	"	"	" ABD
	0500	"	"	
	0606	34° 13.3N	119° 37.65W	MASCOT ↓ (multiple up/down)
	0711	"	"	" ABD
	0737	34-13.0N	119-37.4W	Bluefin ↓
	0800	34° 13.2N	119° 37.7W	
	0820	"	"	MASCOT ↓ (MULTI UP/DOWN)
	0900	34° 13.2N	119° 37.7W	
	0956	"	"	MASCOT ↑
	1000	"	"	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 04-18ZD +7

RADO

DATE	ZT	LAT	LON	EVENT
10 SEP 04	1034	34° 13.2 N	119° 37.7 W	X DUCER ↓
	1039	"	"	X DUCER ↑
	1100	34° 13.5 N	119° 37.7 W	RAD CAM ↓
	1127	34° 13.5 N	119° 37.7 W	RAD CAM ↑
	1135	"	"	HYPERPROBE ↓
	1152	"	"	HYPER PRO ↑
	1200			TSRB ↓
	1210	34° 13.7 N	119° 37.7 W	TSRB ↑
	1232	34° 13.3 N	119° 37.7 W	MASCOT ↓
	1242	"	"	CTDSIC3 ↓
	1250	"	"	MASCOT ↑
	1258	"	"	MASCOT ↓
	1300	34° 13.3 N	119° 37.7 W	
	1312	"	"	MASCOT ↑
	1314	"	"	MASCOT ↓
	1323	"	"	CTDSIC3 ↑
	1327	"	"	MASCOT ↑
	1329	"	"	MASCOT ↓
	1344	"	"	MASCOT ↑
	1400	34° 14.2 N	119° 37.3 W	
	1500	34° 13.3 N	119° 37.6 W	
# LE.	1423	34° 14.5 N	119° 36.8 W	AUV ON DECK
	1541	34° 13.2 N	119° 37.5 W	RAD. CAM ↓
	1600	34 13 3 N	119 37 2 W	
	1608	34 13 3 N	119 37 1 W	RAD CAM ABS
	1628	34 13 3 N	119 37 7 W	MASCOT ↓
	1704	34° 13.5 N	119° 37.7 W	MASCOT ↑
	1800	34° 14.5 N	119° 44.6 W	
	1900	34 15 3 N	119 49 4 W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18
DICKEY-RADYOZD +7

DATE	ZT	LAT	LON	EVENT
10 SEP 08	2000	34° 14.4 N	119° 43.2 W	
	2100	34° 14.7 N	119° 44.6 W	
	2200	34° 15.1 N	119° 47.1 W	
	2300	34° 15.1 N	119° 47.1 W	
11 SEP 08	0000	34° 15.1 N	119° 47.1 W	
	0100	34° 15.1 N	119° 47.1 W	
	0200	34° 15.1 N	119° 47.1 W	
	0300	34° 14.1 N	119° 41.0 W	
	0400	34° 13.26 N	119° 57.65 W	
	0405	"	"	CTD ↓
	0420	"	"	CTD ABD
	0600	"	"	MASCOT ↓
	0700	"	"	
	0712	"	"	MASCOT ABD
	0800	34° 13.2 N	119° 37.7 W	
	0835	"	"	MASCOT ↓ (MULTI UP/DOWN)
	0955	"	"	MASCOT ↑
	1030	"	"	RAD CAM ↓
	1100	34° 13.2 N	119° 37.9 W	RAD CAM ↑
	1110	"	"	HYPERPROBE ↓
	1129	34° 13.2 N	119° 38.0 W	HYPERPROBE ↑
	1138	34° 15.2 N	119° 39.1 W	TSRB ↓
	1148	34° 17.2 N	119° 38.1 W	TSRB ↑
	1219	34° 17.2 N	119° 37.6 W	MASCOT ↓
	1227	"	"	MASCOT ↑
	1242	"	"	CTD SIC5 ↓
	1249	"	"	MASCOT ↓ (XUP/DOWNS)
	1259	"	"	CTD SIC5 ↑
	1300	34° 13.2 N	119° 37.6 W	

KILO MOANA POSITION AND EVENT LOG
CRUISE KM08-18ZD +7

RADYO

DATE	ZT	LAT	LON	EVENT
11 SEP 08	1705	34° 13.2 N	119° 37.6 W	CTD SIC 6 ↓
	1340	"	"	CTD SIC 6 ↑
	1400	"	"	MASCOT ↑
	1424	"	"	RAD CAM ↓
	1444	34° 13.2 N	119° 37.7 W	RAD CAM ↑
	1447	"	"	RAD CAM ↓ (XXXXP 3 Down)
	1500	34° 17.2 N	119° 37.8 W	
	1600	34° 13.24 N	119° 38.1 W	
	1605	34° 13.24 N	119° 38.1 W	RAD CAM ABD
	1620	34° 13.3 N	119° 37.6 W	MASCOT ↓
	1705	34° 13.3 N	119° 37.9 W	MASCOT ↑
	1800	34° 14.6 N	119° 43.9 W	
	1900	34° 35.1 N	119° 48.3 W	
	2000	34° 14.2 N	119° 41.8 W	
	2100	34° 14.9 N	119° 45.8 W	
	2200	34° 15.1 N	119° 47.2 W	
	2300	34° 15.1 N	119° 47.2 W	
12 SEP 08	0000	34° 15.1 N	119° 47.2 W	
	0100	34° 15.1 N	119° 47.2 W	
	0200	34° 14.8 N	119° 45.7 W	
	0300	34° 13.8 N	119° 39.5 W	
	0400	34° 13.25 N	119° 37.66 W	
	0405	"	"	CTD SIC 7 ↓
	0420	"	"	" ABD
	0500	34° 13.3 N	119° 37.7 W	
	0607	34° 13.3 N	119° 37.7 W	MASCOT ↓
	0700	34° 13.3 N	119° 37.7 W	
	0738	"	"	MASCOT ABD
	0800	34° 13.2 N	119° 37.7 W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7

RADOY0

DATE	ZT	LAT	LON	EVENT
12 SEPO8	0844	34° 13.2 N	119° 37.7 W	MASCOT ↓ (MULTI UP/DOWN)
	0900	"	"	
	1008	"	"	MASCOT ↑
	1044	34° 13.3 N	119° 37.7 W	RAD CAM ↓
	1100	34° 13.2 N	119° 37.8 W	RAD CAM ↑
	1109	34° 13.2 N	119° 37.9 W	HYPER PROBE ↓
	1127	34° 13.2 N	119° 38.0 W	HYPER PROBE ↑
	1134	"	"	TSRB ↓
	1148	34° 13.2 N	119° 38.2 W	TSRB ↑
	1200	34° 13.3 N	119° 37.7 W	
	1218	"	"	MASCOT ↓ (MULTI UP/DOWN)
	1230	"	"	CTDSIC8 ↓
	1300	34° 13.3 N	119° 37.7 W	
	1311	"	"	CTDSIC8 ↑
	1320	"	"	MASCOT ↑
	1332	"	"	CTDSIC9 ↓
	1400	34° 13.3 N	119° 37.7 W	CTDSIC9 ↑
	1419	"	"	RAD CAM ↓
	1430	"	"	RAD CAM ↑
	1434	34° 13.4 N	119° 37.8 W	RAD CAM ↓ (MULTI ↑/↓ ^s)
	1500	34° 13.4 N	119° 37.0 W	
	1544	34° 13.5 N	119° 36.3 W	RAD CAM ↑
	1618	34° 13.3 N	119° 37.7 W	MASCOT ↓
	1654	"	"	" ABD
	1800	34° 15.1 N	119° 46.6 W	
	2000	34° 14.1 N	119° 41.5 W	
	2100	34° 14.9 N	119° 45.8 W	
	2200	"	"	
	2300	"	"	

KILO MOANA POSITION AND EVENT LOG
CRUISE KM 08-18ZD 17

RAD 40

DATE	ZT	LAT	LON	EVENT
13 SEP 08	0000	34° 14.9 N	119° 46.1 W	
	0100	34° 14.9 N	119° 46.1 W	
	0200	34° 14.8 N	119° 45.8 W	
	0300	34° 13.7 N	119° 40.7 W	
	0403	34 13 24 ^N	119 37 7 ^W	MASCOT ↓
	0415	"	"	" REB
	0500	"	"	
	0600	"	"	MASCOT ↓
	0700	"	"	
	0712	"	"	MASCOT REB
	0800	34° 13.2 N	119° 37.6 W	
	0811	"	"	MASCOT ↓ (MULTI ↑↓)
	0900	"	"	
	0946	"	"	MASCOT ↑
	1000	"	"	
	1028	34° 13.3 N	119° 37.7 W	RAD CAM ↓
	1054	34° 13.3 N	119° 37.9 W	RAD CAM ↑
	1100	34° 13.4 N	119° 37.9 W	
	1102	"	"	HYPER PROBE ↓
	1128	34° 13.5 N	119° 38.2 W	HYPER PROBE ↑
	1131	"	"	TSRB ↓
	1144	34° 17.5 N	119° 38.3 W	TSRB ↑
	1149	"	"	SECKY DISC ↓
	1151	"	"	SECKY DISC ↑
	1210			SMALL BOAT AWAY
	1230			SMALL BOAT RETURN
	1250	34° 13.2 N	119° 37.7 W	MASCOT ↓
	1300	34° 13.2 N	119° 37.7 W	
	1301	"	"	CTD SICID ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7RAJ-YO

DATE	ZT	LAT	LON	EVENT
13 SEP 08	1318	34° 13.2 N	119° 37.7 W	CTD SIC 10 ↑
	1326	34- 13.3 N	119- 37.7 W	CTD ↓ SIC 11 ↓
	1334	"	"	Ma
	1405			CTD SIC 11 ↑
	1409		"	MASCOT ↑
	1431	34° 13.3 N	119° 37.7 W	RAD CAM ↓
	1551	34 13 7 N	119 37 6 W	" ABS
	1620	34 13 27 N	119 37 67 W	MASCOT ↓
	1705	34- 13.0 N	119- 37.5 W	
	1724	34- 12.9 N	119- 37.3 W	Mascot ↑
	1809	34 13 9 N	119 42 3 W	
	1900	34 15 2 N	119° 47 0 W	
	2000	34° 14.4 N	119° 43.2 W	
	2100	34° 14.8 N	119° 45.0 W	
	2200	34° 14.7 N	119° 45.0 W	
	2300	34° 14.2 N	119° 41.9 W	
9/14/08	0000	34- 14.2 N	119° 41.9 W	
	0100	34° 14.2 N	119° 41.9 W	
	0200	34° 14.2 N	119° 41.7 W	
	0300	34° 13.2 N	119° 37.8 W	
	0358	34 13 3 N	119 37 7 W	CTD SIC 12 ↓
	0418	"	"	" ABS
	0500	"	"	
	0552	"	"	MASCOT ↓
	0600	"	"	
	0657	"	"	MASCOT ABS
	0708	"	"	KLUGE ↓
	0743	34 13 3	119 37 8 W	" ABS
	0826	34 13.2	119 37.7	SKIMMER ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7

RAD 40

DATE	ZT	LAT	LON	EVENT
14 SEP 08	0839	34° 13.2 N	119° 37.7 W	MASCOT ↓
	0900	"	"	
	0927	"	"	MASCOT ↑
	0938			SKINNER ↑
	1000	"	"	
	1016	"	"	RAD CAM ↓
	1046	34° 13.3 N	119° 38.1 W	RAD CAM
	1056	34° 13.3 N	119° 38.2 W	HYPER PRO ↓
	1115	34° 13.2 N	119° 38.4 W	HYPER PROBE ↑
	1123	34 13.3 N	119° 38.4 W	TS RB ↓
	1132	"	"	TS RB ↑
	1145	"	"	SMALL BOAT AWAY
	1156			SMALL BOAT RETURN
	1200	34° 13.2 N	119° 38.4	
	1225	34° 13.2 N	119° 37.7 W	MASCOT ↓
	1234	"	"	CTD SIC 13 ↓
	1259	"	"	CTD SIC 13 ↑
	1307	34° 13.2 N	119° 37.7	CTD SIC 14 ↓
	1325	"	"	SECCHI DISC ↓ (Secchi)
	1330	34-13.3 N	119-37.7 W	Secchi disc ↑
	1338	"	"	MASCOT ↑
	1342	"	"	CTD SIC 14 ↑
	1350	"	"	KLUGE ↓
	1450	34° 13.2 N	119° 37.2	KLUGE ↑
	1500	34° 13.2	119° 37.4	
	1512	"	"	RAD CAM ↓
	1600	34 13 0 N	119 36 6 W	
	1609	34 12 98	119 36 44 W	RAD CAM ABD
	1618	34 12 94 N	119 36 3 W	MASCOT ✓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7

RADIO

DATE	ZT	LAT	LON	EVENT
9/14/08	1700	34-12.8N	119-35.9W	MASCOT ↑
	1748	34 13 2 ^N	119 37 50 ^W	MASCOT ↓
	1800	34 13 2 ^N	119 37 53 ^W	
	1900	34 13 25 ^N	119 37 47 ^W	
	1905	"	"	MASCOT ABD
	2008	34-14.6N	119-44.4W	
	2100	34-14.9N	119-46.0W	
	2200	34-14.2N	119-42.1W	
	2300	34-15.1N	119-46.8W	
15SEP08	0000	34-14.4N	119-43.2W	
	0100	34-14.8N	119-44.8W	
	0200	34-14.5N	119-44.1W	
	0300	34-13.2N	119-37.7W	
	0359	34 13 3 ^N	119 37 7 ^W	CTD SIC 15 ↓
	0415	"	"	" " ABD
	0500	"	"	
	0550	"	"	MASCOT ↓
	0600	"	"	
	0700	"	"	MASCOT ABD
	0715	"	"	KLUGE ↓
	0755	34-13.2N	119-37.8W	KLUGE ↑
	0759	"	"	KLUGE ↓
	0812	34-13.2N	119-38.0W	KLUGE ↑
	0835	"	"	SKINNER ↓
	0851	34-13.2N	119-38.1W	KLUGE ↓
	0900	"	"	
	0909	"	"	KLUGE ↑
	0915	"	"	KLUGE ↓
	0931	34-13.2N	119-38.0W	KLUGE ↑

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-14ZD +8

RADYO

DATE	ZT	LAT	LON	EVENT
15 SEP 08	0935	34° 13.2 N	119° 38.0 W	KLUGE ↓
	0947	34° 13.2 N	119° 37.9 W	KLUGE ↑
	1007	34° 13.6 N	119° 38.0 W	SKINNER ↑
	1039	34° 13.6 N	119° 37.7 W	RAD CAM ↓
	1058	34° 13.6 N	119° 38.0 W	RAD CAM ↑
	1107	34° 13.6 N	119° 38.1 W	HYPER PROBE ↓
	1123	34° 13.6 N	119° 38.2 W	HYPER PROBE ↑
	1127	34° 13.6 N	119° 38.3 W	TSRB ↓
	1136	"	"	TSRB ↑
	1223	34° 13.3 N	119° 37.7 W	MASCOT ↓ (MULTI ↑/↓)
	1243	"	"	CTDSIC16 ↓
	1300	34° 13.2 N	119° 37.8 W	
	1304	"	"	CTDSIC16 ↑
	1312	34° 13.2 N	119° 37.8 W	CTDSIC17 ↓
	1322	"	"	CTDSIC17 ↑
	1333	34° 13.2 N	119° 38.0 W	CTDSIC18 ↓
	1354	34° 13.2 N	119° 38.1 W	MASCOT ↑
	1400	34° 13.2 N	119° 38.1 W	
	1405	"	"	CTDSIC18 ↑
	1413	"	"	KLUGE ↓
	1426	34° 13.2 N	119° 38.1 W	KLUGE ↑
	1429	"	"	KLUGE ↓
	1441	34° 13.2 N	119° 38.2 W	KLUGE ↑
	1446	"	"	KLUGE ↓
	1454	"	"	KLUGE ↑
	1511	34° 13.2 N	119° 38.0 W	RAD CAM ↓
	1520	34° 13.2 N	119° 37.7 W	RAD CAM ↑
	1524	34° 13.2 N	119° 37.6 W	RAD CAM ↓
	1531	34° 13.2 N	119° 37.5 W	RAD CAM ↑

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7

RAD-YO

DATE	ZT	LAT	LON	EVENT
15 SEP 08	1534	34° 13.2 N	119° 37.4 W	RAD CAM ↓+↑ WINE ZU BECK
	1600	34 13 2 N	119 37 2 W	
	1606	34 13 2 N	119 37 2 W	MASCOT ↓
	1700	34-13.2 N	119-37.2 W	
	1744	34 13 2 N	119 37 2 W	MASCOT ARR
	1806	34 13 8 N	119 39 8 W	
	1900	34 14 7 N	119 45 2 W	
	2000	34° 14.5 N	119° 45.6 W	
	2102	34° 14.3 N	119° 42.4 W	
	2200	34° 14.9 N	119° 47.4 W	
	2300	34° 14.3 N	119° 42.3 W	
16 SEP 08	0000	34° 14.2 N	119° 41.8 W	
	0100	34° 14.3 N	119° 43.2 W	
	0200	34° 13.8 N	119° 40.2 W	
	0230	34° 13.2 N	119° 37.7 W	RAD CAM ↓
	0242	"	"	RAD CAM ↑
	0300	34° 13.2 N	119° 37.7 W	
	0400	34 13 3 N	119 37 7 W	MASCOT ↓
	0442	34 13 2 N	119 37 8 W	" ARR
	0500	34 13 3 N	119 37 7 W	
	0545	" "	" "	MASCOT ↓
	0600	34 13 3	119 37 7 W	
	0655	34 13 2 N	119 37.88 W	MASCOT ARR
	0710	"	"	KLUGE ↓
	0754	34° 13.1 N	119° 37.9 W	KLUGE ↑
	0800	"	"	
	0840	34° 13.2 N	119° 37.7 W	KLUGE ↓ (MULTI ↓↑)
	0900	34° 13.2 N	119° 37.8 W	
	0912	"	"	KLUGE ↑

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-14ZD +7

RAD-40

DATE	ZT	LAT	LON	EVENT
16 SEP 04	0928	34° 13.3 N	119° 37.7 W	KLUGE ↓ (MULTI ↑↓)
	1000	"	"	
	1010	"	"	KLUGE ↑
	1038	"	"	RAD CAM ↓
	1100	34° 13.1 N	119° 37.9 W	
	1113	"	"	RAD CAM ↑
	1120	34° 13.1 N	119° 38.0 W	HYPER PROBE ↓
	1144	34° 13.0 N	119° 38.2 W	HYPER PROBE ↑
	1150	"	"	TSRB ↓
	1158	34° 12.9 N	119° 38.3 W	TSRB ↑
	1200	"	"	
	1225	"	"	SMALL BOAT AWAY FOR TRANSMISSION (VARIOUS ↑↓ CONTACT LOG BOOK)
	1300	34° 12.8	119° 38.0	SMALL BOAT OFF ALL DONE
	1324	34° 13.0 N	119° 37.7 W	MASCOT ↓
	1333	"	"	CTD SIC19 ↓
	1342	"	"	MASCOT ↑
	1400	34° 13.2 W	119° 37.8 W	
	1419	34° 13.1 W	119° 38.0 W	CTD SIC19 ↑
	1424	"	"	MASCOT ↓ ^{L.E.} 1440 MASCOT ↑
	1443	"	"	KLUGE ↓ (MULTI ↑/↓)
	1500	34° 13.1 N	119° 38.1 W	
	1545	34° 13.0 N	119° 38.3 W	KLUGE ↑
	1600	34 13 0 N	119 38 4 W	
	1639	34 13 3 N	119 37 7 W	MASCOT ↓
	1700	34-13.3 N	119-37.7 W	
	1726	"	"	MASCOT ↑
	1900	34 15 2	119 47 3	
	2000	34° 14.5 N	119° 43.1 W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KH 08-18ZD 47

RAD 40

DATE	ZT	LAT	LON	EVENT
16 SEP 07	207	34° 14.8 N	119° 45.0 W	
	2200	34° 14.9 N	119° 46.0 W	
	2300	34° 14.5 N	119° 41.7 W	
17 SEP 08	0000	34° 14.4 N	119° 42.7 W	
	0100	34° 14.4 N	119° 42.7 W	
	0200	34° 14.4 N	119° 42.7 W	
	0300	34° 14.4 N	119° 42.7 W	
	0400	34° 14.4 N	119° 42.7 W	
	0500	34° 14.4 N	119° 42.7 W	
	0600	34° 14.4 N	119° 42.7 W	
	0700	34° 14.2 N	119° 41.6 W	
	0800	34° 14.3 N	119° 37.7 W	
	0845	"	"	SKIMMER ↓
	0900	"	"	
	1000	34° 13.5 N	119° 37.6 W	
	1010	34° 13.7 N	119° 37.5 W	SKIMMER ↑
	1036	"	"	RAD CAM ↓
	1100	34° 13.6 N	119° 37.8 W	
	1110	34° 13.5 N	119° 37.9 W	RAD CAM ↑
	1117	34° 13.5 N	119° 38.0 W	HYPER PROBE ↓
	1136	34° 13.4 N	119° 38.2 W	Hyper pro ↑
	1140	34° 17.4	119° 38.2 W	TSRS ↓
	1149	"	"	TSRS ↑
	1200	34° 17.2 N	119° 38.3 W	
	1216	34° 18.2 N	119° 37.7 W	MASCOT ↓
	1226	"	"	MASCOT ↑
	1231	"	"	MASCOT ↓
	1241	34° 18.1 N	119° 37.8	CTD SIC 20 ↓
	1700	34° 17.0 N	119° 37.9	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18
RAD-40ZD+ 7

DATE	ZT	LAT	LON	EVENT
17SEP08	1319	34° 13.0N	119° 38.0W	CTD/SIC 20↑
	1324	"	"	MASCOT ↑
	1339	"	"	KLUGE ↓
	1355	"	"	KLUGE ↑
	1400	34° 13.0N	119° 38.0W	KLUGE ↓
	1413	"	"	KLUGE ↑
	1421	"	"	KLUGE ↓
	1426	"	"	SECCHI DISC ↓
	1428	"	"	SECCHI DISC ↑
	1433	34° 13.0N	119° 38.0W	KLUGE ↑
	1500	34° 13.1N	119° 37.9W	
	1505	"	"	RADCAM ↓
	1516	34° 13.1N	119° 37.6W	RADCAM ↑
	1519	"	"	RADCAM ↓
	1526	34° 13.1N	119° 37.4W	RADCAM ↑
	1528	"	"	RADCAM ↓
	1535	34° 13.1N	119° 37.1W	RADCAM ↑
	1537	"	"	RADCAM ↓
	1546	34° 13.1N	119° 36.9W	RADCAM ↑
	1548	"	"	RADCAM ↓
	1558	34 13.0	119 36.57 W	" ARD
	1608	"	"	MASCOT ↓
	1700	34-13.0N	119-36.7W	
	1727	34-13.1N	119-36.8W	MASCOT ↑
	1800	34 13.3 W	119 37.7 W	
	1900	34-13.3N	119-37.7W	
	2000	34° 13.2N	119° 37.7W	
	2100	"	"	
	2119	"	"	CAMERA PLUG ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 04-18ZD +7

RAD 40

DATE	ZT	LAT	LON	EVENT
17 SEP 08	2156	34°13.2N	119°37.7W	CAMERA PKG ↑
	2200	"	"	
	2258	"	"	CAMERA PKG ↓
	2300	"	"	
	2329	"	"	CAMERA PKG ↑
18 SEP 08	0000	34°13.2N	119°37.7W	
	0100	34°14.6N	119°44.4W	
	0200	34°14.8N	119°44.9W	
	0300	34°14.5N	119°43.7W	
	0400	34 14 7 N	119 43 7 W	
	0500	34°14 8 N	119°44 6 W	
	0600	34 14 8 N	119 45 5 W	
	0700	34 13 9 N	119 39 9 W	
	0800	34-13.3N	119-37.7W	
	0836	34°13.2N	119°37.7W	SKINNER ↓
	0859	"	"	TSRB ↓
	0918	"	"	TSRB ↑
	0937	34°13.7N	119°37.4W	SKINNER ↑
	0949	"	"	TSRB ↓
	1000	"	"	
	1100	34°13.5N	119°37.6W	
	1156	34°13.4N	119°37.7W	TSRB ↑
	1200	34°13.4N	119°37.7W	
	1220	34°13.3N	119°37.7W	MASCOT ↓ (MULTI ↑/↓)
	1231	"	"	CTDSIC21 ↓
	1257	34 13 4 N	119 37 7 W	CTDSIC21 ↑
	1300	34 13 4 N	119 37 7 W	
	1330	34°13.2N	119°37.7W	MASCOT ↑
	1400	34-13.3N	119-37.8W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18
RAD-Y6ZD 17

DATE	ZT	LAT	LON	EVENT
18 SEP 08	1406	34° 13.2 N	119° 37.7 W	AUV ↓
	1444	-	-	AUV ↑
	1503	34° 13.3 N	119° 37.7 W	SECCH2 ↓ ISOS SECCH2 ↑
	1515	34° 13.7	119° 37.6 W	TSRB ↓
	1523	34° 13.3 N	119° 37.4 W	TSRB ↑
	1527	34° 17.4 N	119° 37.3 W	FSRB ↓ HYPER PRO ↓
	1547	34° 17.5 N	119° 36.9 W	HYPER PRO ↑
	1613	34° 13.3 N	119° 37.6 W	MASCOT ↓
	1700	34° 13.3 N	119° 37.7 W	
	1700	34° 13.3 N	119° 37.7 W	MASCOT ADD
	2000	34° 14.6 N	119° 43.8 W	
	2109	34° 14.8 N	119° 45.1 W	
	2200	34° 14.4 N	119° 42.7 W	
	2300	34° 14.7 N	119° 44.7 W	
19 SEP 08	0000	34° 14.7 N	119° 42.6 W	
	0100	34° 15.0 N	119° 46.5 W	
	0200	34° 14.3 N	119° 42.4 W	
	0300	34° 14.3 N	119° 42.4 W	
	0400	34° 14.3 N	119° 42.4 W	
	0500	34° 14.3 N	119° 42.4 W	
	0600	34° 14.8 N	119° 42.5 W	
	0700	34° 13.3 N	119° 37.7 W	
	0800	34° 13.2 N	119° 37.7 W	
	0835	"	"	TSRB ↓
	0900	"	"	
	0955	34° 13.2 N	119° 38.0 W	TSRB ↑
	1000	"	"	
	1012	34° 13.2 N	119° 38.0 W	RAD CAM ↓
	1053	34° 13.1 N	119° 38.4 W	RAD CAM ↑

KILO MOANA POSITION AND EVENT LOG

CRUISE KM 08-18ZD +7

RAD-40

DATE	ZT	LAT	LON	EVENT
19 SEP 08	1100	34° 13.1 N	119° 38.4 W	TSRB ↓
	1150	34° 13.1 N	119° 38.8 W	TSRB ↑
	1200	34° 13.4 N	119° 38.7 W	
	1218	34° 17.2 N	119° 37.7 W	MASCOT ↓ (MULT ↑/↓)
	1228	34° 13.2 N	119° 37.8 W	CTD SIC 22 ↓
	1300	34° 13.2 N	119° 38.1 W	
	1307	34° 17.2 N	119° 38.1 W	CTD SIC 22 ↑
	1324	34° 13.1 N	119° 38.3 W	MASCOT ↑
	1339	34° 13.1 N	119° 38.3 W	TSRB ↓
	1344	"	"	TSRB ↑
	1358	34° 13.1 N	119° 38.5 W	HYPER PRO 3 ↓
	1551	34 13 2	119 39 4 W	" " ABA
	1600	34 13 3	119 38 6 W	
	1618	34 13 2 N	119 37 8 W	MASCOT ↓
	1700	34-13.3 N	119-38.2 W	
	1721	34-13.3 N	119-38.4 W	MASCOT ↑
	1800	34 13 3 N	119 38 4 W	
	1900	34 14 4 N	119 42 7 W	
	2000	34° 15.1 N	119° 47.1 W	
	2100	34° 14.2 N	119° 41.8 W	
	2200	34° 15.0 N	119° 46.6 W	
	2300	"	"	
20 SEP 08	0000	34° 15.1 N	119° 46.6 W	
	0100	34° 15.1 N	119° 46.6 W	
	0200	34° 15.1 N	119° 46.6 W	
	0305	34° 14.6 N	119° 44.2 W	
	0400	34° 13.2 N	119° 37.7 W	
	0500	34° 13.2 N	119° 37.7 W	
	0520	"	"	CAMERA PACKAGE ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KMOB-18
RAD-YOZD +7

DATE	ZT	LAT	LON	EVENT
20 SEP 08	0600	34-13.3N	119-37.8W	
	0700	34-13.3N	119-37.9W	
	0718	34-13.4N	119-37.9W	Camera pks ↑
	0800	34-13.2N	119-37.7W	
	0916	34-14.1N	119-37.3W	AUV ↓
	1000	34-13.3N	119-37.7W	
	1015	"	"	RAD CAM ↓
	1054	34-13.3N	119-38.0W	RAD CAM ↑
	1100	"	"	HYPER PROBE ↓
	1125	34-13.4N	119-38.2W	HYPER PROBE ↑
	1130	"	"	TSRB ↓
	1143	34-17.4N	119-38.4W	TSRB ↑
	1200	34-13.3N	119-37.7W	
	1203	"	"	MASCOT ↓
	1220	34-13.3N	119-37.8W	MASCOT ↑
	1223	"	"	MASCOT ↓ (MULTI ↑/↓)
	1239	"	"	CTDSIC23 ↓
	1300	34-13.2N	119-38.0W	
	1315	34-13.2N	119-38.1W	CTDSIC23 ↑
	1351	34-14.2N	119-37.1W	AUV ON SHIP LINE
	1354	"	"	AUV ON DECK
	1420	34-13.4N	119-37.7W	SECCHI DISK ↓
	1422	"	"	SECCHI OFFSET
	1427	"	"	TSRB ↓
	1451	34-17.4N	119-38.0W	TSRB ↑
	1455	"	"	HYPER PRO ↓
	1500	34-13.4N	119-38.1W	
	1516	34-17.4N	119-38.2W	HYPER PRO ↑
	1523	34-13.5N	119-38.3W	RAD CAM ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18ZD 17

RAD-40

DATE	ZT	LAT	LON	EVENT
20 SEP 08	1543	34° 13.5 N	119° 38.4 W	RADCAM ↑
	1600	34 13.3 N	119 37.7 W	
	1605	"	"	MARSCOT ↓
	1700	34-13.4 N	119-38.1 W	
	1722	34-13.5 N	119-38.3 W	MARSCOT ↑
	1800	34 14.5 N	119 42.8 W	
	1700	34 15.1	119 47.3 W	
	2000	34.14.1 N	119.41.7 W	
	2100	34.15.0 N	119.46.3 W	
	2200	34.14.5 N	119.43.4 W	
	2300	34.14.5 N	119.43.3 W	
21 SEP 08	0000	34.14.5 N	119.47.7 W	
	0100	34.14.4 N	119.47.7 W	
	0200	34.14.4 N	119.47.7 W	
	0300	34.14.4 N	119.47.7 W	
	0400	34 14.5 N	119 43.4 W	
	0500	"	"	
	0600	34 14.7 N	119 44.2 W	
	0700	34 13.8 N	119 39.7 W	
	0800	34-13.3 N	119-37.7 W	
	0847	34.14.1 N	119.37.4 W	AVY ↓
	0935	34.13.2 N	119.37.6 W	SKIMMER ↓
	0949	34.13.2 N	119.37.7 W	RAD CAM ↓
	1000	34.13.2 N	119.37.8 W	
	1041	34.13.1 N	119.38.1 W	RAD CAM ↑
	1101	34.13.4 N	119.37.4 W	SKIMMER ↑
	1114	34.13.3 N	119.37.7 W	HYPER PROBE ↓
	1136	34.13.2 N	119.57.8 W	HYPER PROBE ↑
	1140	"	"	TSRB ↓

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18
RAN-40ZD +7

DATE	ZT	LAT	LON	EVENT
21 SEP 08	1151	34° 13.2N	119° 37.9	TRANS ↑
	1200	34° 13.3N	119° 37.7W	
	1205	"	"	MASCOT ↓
	1222	"	"	MASCOT ↑
	1225	"	"	MASCOT ↓ (MULTI ↑/↓)
	1237			CTDSIC24 ↓
	1300	34° 13.3N	119° 37.7W	
	1323	"	"	CTDSIC24 ↑
	1343	"	"	MASCOT ↑
	1348	"	"	SECCHI DISC ↓
	1350	"	"	SECCHI DISC ↑
	1427	34° 14.3N	119° 37.2W	SHIP LINE ON AUV
	1429	"	"	AUV ON DECK
	1500	34° 13.3N	119° 37.6	RAD CAM ↓
	1520	34° 13.4N	119° 37.3	RAD CAM ↑
	1527	"	"	TSAB ↓
	1541	34° 13.5N	119° 37.0	TSAB ↑
	1545	34 13.5 N	119 37.0 W	HYPERPRO ↓
	1555	"	"	" ABA
	1616	34 13.3 N	119 37.7 W	MASCOT ↓
	1700	34-13.3N	119-37.7W	
	1726	34-13.2N	119-37.8W	MASCOT ↑
	1800	34 13.3 N	119 37.6 W	
	1804	"	"	MASCOT ↓
	1826	"	"	MASCOT ABA
	1900	34-13.3N	119-37.7W	
	1925	34-13.3N	119-37.7W	CAMERA PKG ↓
	2000	34° 13.3N	119° 37.7W	
	2034	34° 13.2N	119° 37.8W	CAMERA PKG ↑

KILO MOANA POSITION AND EVENT LOG

CRUISE KM04-14ZD +7

RAD 40

DATE	ZT	LAT	LON	EVENT
21 SEP 08	2046	34° 13.2 N	119° 37.8 W	CAMERA PKG ↓
	2100	"	"	
	2200	"	"	
	2300	34° 13.1 N	119° 37.9 W	CAMERA PKG ↑
22 SEP 08	0000	34° 14.3 N	119° 42.6 W	
	0100	34° 15.2 N	119° 46.9 W	
	0200	34° 14.2 N	119° 41.8 W	
	0300	34° 15.0 N	119° 46.8 W	
	0400	34° 14.2 N	119° 43.4 W	
	0600	34 14 7	119 45 7 W	
	0700	34 13 9 N	119 40 4 W	
	0800	34 13.2 N	119° 37.7 W	
	0835	34° 14.1 N	119° 37.9 W	AUV ↓
	0900	34° 13.3 N	119° 37.7 W	
	0920	"	"	SKINNER ↓
	1000	"	"	
	1043	34 13.8 N	119° 38.1 W	SKINNER ↑
	1200	34° 13.3 N	119° 37.6 W	
	1207	34° 13.3 N	119° 37.6 W	MASCOT ↓
	1245	"	"	MASCOT ↑
	1246	"	"	CTDSIC25 ↓
	1251	"	"	MASCOT ↓ (MULT ↑/↓)
	1300	34° 13.3 N	119° 37.6 W	
	1308	"	"	CTDSIC25 ↑
	1313	"	"	SECCHI DTSC ↓
	1314	"	"	SECCHI DTSC ↑
	1325	"	"	CTDSIC26 ↓
	1357	"	"	CTDSIC26 ↑
	1400	34° 13.3 N	119° 37.6 W	

KILO MOANA POSITION AND EVENT LOG

CRUISE KM08-18ZD +7

RAD YO

DATE	ZT	LAT	LON	EVENT
22 SEP 08	1419	34° 13.3 N	119° 37.6 W	MASCOT ↑
	1500	34° 13.9 N	119° 37.4 W	
	1522	34° 14.2 N	119° 37.4 W	AUV ON DECK
	1600	34° 13.3 N	119° 37.7 W	
	1700	34° 13.3 N	119° 37.7 W	
	1859	34° 13.3 N	119° 37.7 W	camera pkg ↓
	2000	34° 13.2 N	119° 37.8 W	
	2100	34° 13.6 N	119° 38.6 W	
	2200	34° 14.1 N	119° 39.2 W	
	2247	34° 14.4 N	119° 39.6 W	CAMERA ↑
23 SEP 08	0000	34° 05.7 N	119° 36.8 W	
	0100	34° 02.3 N	119° 22.4 W	
	0115	34° 02.0 N	119° 19.0 W	C/C TO 180° T
	0200	33° 51.9 N	119° 19.0 W	
	0300	33° 51.5 N	119° 18.8 W	
	0400	33° 56.6 N	119° 16.4 W	
	0500	34° 01.4 N	119° 14.7 W	
	0600	34° 06.5 N	119° 13.0 W	