

## Work form for Answers

#	July	ID	WT	Log	C	S	Computed			Plotted	Range	Bearing
1	4		0400	075	274	7.0						
2	4		0500	082	220	7.7						
3	4		1247	142	267	5.3						
5	4		1609	160	222	7.0						
6	5		0000	215	222	7.0						
7	5		0504	250	197	6.0						
8	5	P1 DR	0844	272								
9	5	P1 FIX	0844	272	197	7.0						
10	5		1335	306	267	7.0						
11	5		2200	365	226	7.0						
12	6		0000	379	226	7.0						
13	6		0534	418	209	5.4						
14	6		1046	446	200	7.3						
15	6	P2 DR	1527	480								
16	6	P2 FIX	1527	480	188	7.3						
17	7		0000	539	188	7.3						
18	7		0832	599	180	6.5						
19	7	P3 DR	1400	634								
20	7	P3 FIX	1400	634	176	6.4						
21	8		0000	698	176	6.4						
22	8		1009	769	169	6.7						
23	8	P4 DR	1307	789								
24	8	P4 FIX	1307	789	156	6.5						
25	8		2021	836	256	6.0						
26	9		0000	858	256	6.0						
27	9		0811	907	222	6.7						
28	9	P5 DR	1325	942								
29	9	P5 FIX	1325	942	197	6.0						
30	9	P6 LAN	1355	945	197	6.0						
31	9	P7 DR	2159	992								
32	9	P7 FIX	2159	992	234	4.6						

#	July	ID	WT	Log	C	S	Computed			Plotted	Range	Bearing
33	10		0000	1003	197	5.7						
34	10		0500	1032	276	5.7						
35	10	P8 DR	1334	1082								
36	10	P8 FIX	1334	1082	210	4.8						
37	11		0000	1132	210	4.8						
38	11	P9 DR	0605	1161								
39	11	P9 FIX	0605	1161	197	4.0						
40	11	P10 DR	1110	1181								
41	11	P10 FIX	1110	1181	230	3.3						
42	12		0000	1222	230	3.3						
43	12		1445	1271	230	7.0						
44	12	P11 DR	1645	1285								
45	12	P11 FIX	1645	1285	235	5.7						
46	13		0000	1326	235	5.7						
47	13	P12 DR	0642	1364								
48	13	P12 FIX	0642	1364	205	5.5						
49	13		1019	1384	165	6.0						
50	13		1500	1412	170	6.3						
51	13	P13 DR	1741	1429								
52	13	P13 FIX	1741	1429	205	6.1						
53	14		0000	1467	205	6.1						
54	14	P14 DR	1418	1554								
55	14	P14 FIX	1418	1554	260	7.5						
56	15		0000	1627	260	7.5						
57	15		0728	1682	260	7.5						
58	15		0832	1690	240	7.5						
59	15	P15 DR	0917	1696								
60	15	P15 FIX	0917	1696	240	8.1						
61	15		1052	1709	233	7.4						
63	15	P16 DR	1338	1730								
64	15	P16 FIX	1338	1730	245	7.7						
65	16		0000	1809	245	7.7						
66	16	P17 DR	0714	1865								
67	16	P17 FIX	0714	1865	247	7.7						
68	16	P18 DR	2213	1981								
69	16	P18 FIX	2213	1981	243	7.8						

#	July	ID	WT	Log	C	S	Computed			Plotted	Range	Bearing
70	17		0000	1995	243	7.5						
71	17		1128	2081	243	6.8						
72	17		1450	2104	240	7.4						
73	17		1611	2114	240	8.6						
74	17	P19 DR	2000	2147								
75	17	P19 FIX	2000	2147	240	8.5						
76	18		0000	2181	240	7.4						
77	18		0740	2238	242	7.3						
78	18	P20 DR	1121	2265								
79	18	P20 FIX	1121	2265	242	6.9						
80	18	P21 DR	2240	2343								
81	18	P21 FIX	2240	2343	232	6.3						
82	19		0000	2351	232	6.3						
83	19	P22 DR	0753	2401								
84	19	P22 FIX	0753	2401	238	5.8						
86	19	P23 DR	2241	2487								
87	19	P23 FIX	2241	2487	230	5.3						
88	20		0000	2494	230	5.3						
89	20	P24 DR	1227	2560								
90	20	P24 FIX	1227	2560	228	4.3						
91	20	P25 DR	1520	2572								
92	20	P25 FIX	1520	2572	217	5.7						
93	20	P26 DR	2240	2614								
94	20	P26 FIX	2240	2614	232	7.6						
95	21		0000	2624	232	7.6						
96	21	P27 DR	0831	2689								
97	21	P27 FIX	0831	2689	232	7.6						

## DR to FIX Summary

DR Error Analysis*										
Prob	WT	dT	dT(h)	Log	dLog	Error	%	Drift	Set	
	7/4 0400									
P1	7/5 0844									
P2	7/6 1527									
P3	7/7 1400									
P4	7/8 1307									
P5	7/9 1325									
P6	7/9 1356									
P7	7/9 2159									
P8	7/10 1334									
P9	7/11 0605									
P10	7/11 1110									
P11	7/12 1645									
P12	7/13 0642									
P13	7/13 1741									
P14	7/14 1418									
P15	7/15 0917									
P16	7/15 1338									
P17	7/16 0714									
P18	7/16 2213									
P19	7/17 2000									
P20	7/18 1121									
P21	7/18 2240									
P22	7/19 0753									
P23	7/19 2241									
P24	7/20 1227									
P25	7/20 1520									
P26	7/20 2240									
P27	7/21 0831									

\*Notes. (1) P is problem number. (2) WT is watch time and date. (3) dT is time difference between fixes in hh:mm:ss. (4) dT(h) is same time interval in decimal hours. (5) dLog is log difference, or distance run between fixes. (6) Error is the range from DR to Fix. (7) % is (Error/dLog)\*100. (8) Drift is Error/dT(h), which is the speed of the error current. (9) Set is bearing from DR to Fix, which is the direction of the error current.