

DRAFT COPY OF

SURVEY LOGS JUNE 1987 LAKES

ULLSWATER, CRUMMOCK WATER, WEST WATER,

ENTWEDALE WATER, WANDER HERE

By GERALD E. G. SARGENT.

Pl of 3 (Elevations)

16/1987. Ullswater. Peter & Paul in Dory. overcast / drizzle / cold / calm water. 0.6 V/S/Hr. 72-4/s

1 cap Ignition

Fix No	Sta 74	Sta 72	Comment	Fix No	Sta 74	Sta 72	Comment
1	2401	-	Tape 1	34	loop to get hat dropped in lake!		
2	2284	-		35	5074	1283	
3	2086	-		36	5239	1437	
4	1432	-		37	5399	1587	
5	1146	-		38	5444	1830	Turn
6	1564	-	opposite bank Bluff on east side	39	5354	1562	
7	1338	-		40	5240	1474	
8	1153	-		41	5165	1405	1301 Tape Change No. 3 in
9	444	-		42	3165	1079	1415 tape in.
10	838	3842		43	2837	743	
11	641	3834		44	2506	408	
12	536	3155		45	2273	209	
13	386	3682		46	1976	192	
14	520	3381		47	1711	431	
15	727	3124		48	1448	712	
16	960	2870	worn tape change No. 2	49	1139	1082	
17	1226	2585		50	951	1344	beat wicks.
18	1026	2379		51	777	1633	Tape change @ 1449 No 4 in
19	1509	2294		52	706	2042	
20	1857	1941		53	853	2471	
21	2269	1524	engine number on dory.	54	1117	2863	
22	-	-		55	1658	3506	
23	2637	1153		56	-	3804	Turn to start line son
24	2814	976	"1/2 Tape	57	1822	3662	
25	3088	813		58	1646	3400	
26	3156	651		59	1450	3055	604/son
27	3325	497		60	1183	2829	
28	3549	320		61	927	2629	vector stops for brief period
29	3886	249		62	684	2460	change @ 1539, missed some! Tape 5 in
30	4223	481		63	427	2721	604/son



past Wall Hole to glennding Home to pass n<sup>o</sup> of rocks just off land fall below  
grey Craig, to landing stage.

Centre lines, and zig zag of NE Basin position fixed using  
Dacca Tripods. Zig zag of main central section and extreme south  
west without position fixing

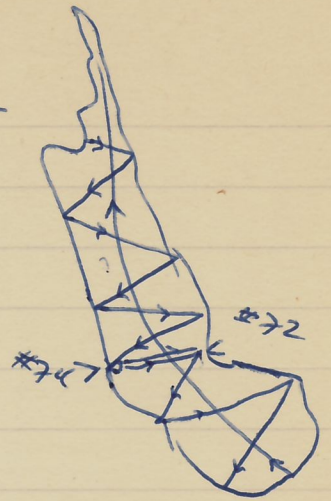
Tape recording of records have small brief gaps where tape  
changed whilst surveying, usually 10-15 seconds EXCEPT at end of first  
reel where the gap is unknown and may be some minutes.

Tapes 1-7 inclusive used.

DECCA TRISPONDER STATION POSITIONS

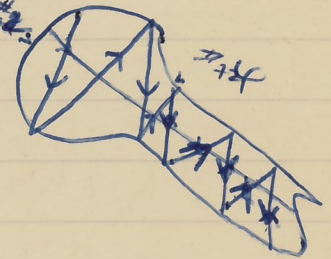
Crummock Water. Triponder positions :-

Stn * 70	Low lying Crag	315690 east
		518310 north
Stn 72	House Point	316150 east
		518180 north



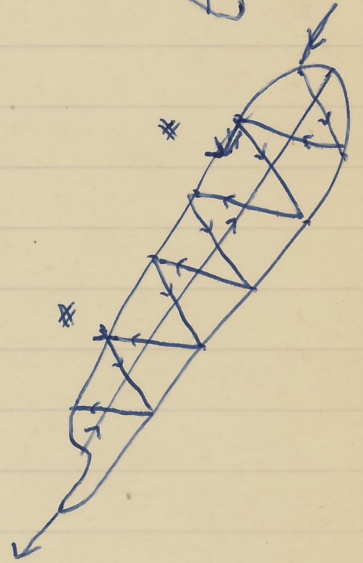
Kunsedale Water.

Stn 72	Between landing stage and confluence Rothery Side	516020 north	309305 east
Stn * 74	Below Bowmers Knott.	310760 east	515400 north



Wast Water

Stn * 72	Ozerbeck bridge, new water ledge	15030 East	06750 North
Stn * 74	SW of landing stage below old building	16800 East	05660 North



Ullswater

Stn * 76	Glenridding bridge	339030	E	} Sth end.
		517000	N	
Stn * 74	Above (N) glaucouye bridge	338880	E	} 'Corner' of Sth Basin
		518940	N	
Stn * 72	East of Dobbin Wood	342080	E	} N. end SW Basin
		520480	N	
Stn * 74	Old Church Hotel	344260	E	} S end Nth Basin
		521200	N	
Stn * 72	Brooknigg Hotel	344905	E	} Nth end
		523205	N	

\*Stn = DECCA Triponder 'Station' number.

Fix #	*72	*74
1	Sol at Island Spur	
2	-	-
3	144	243
4	-	-
5	297	82
6	at *74	
7	417	at *74
8	424	34
9	440	140
10	476	247
11	537	358
12	616	489
13	644	525
14	657	486
15	678	444
16	723	414
17	789	420
18	859	450
19	1047	lost
20	1241	933
21	956	600
22	565	251
23	234	145
24	222	378
25	471	698
26	862	1096
27	1251	1492
28	1813	2055
29	2335	2572
30	2557	2792
31	-	-
32	2035	2298
33	1993	2224
34	1011	2173

Tape 8  
in

2 caps lynx

Fix #	*72	*74
35	1900	2080
36	1815	2007
37	1877	2097
38	1784	1983
39	1642	1867
40	1488	1747
41	1235	1556
42	1281	1583
43	1382	1664
44	1480	1744
45	1637	1865
46	1759	1957
47	1877	2053
48	99	74
49	1215	1540
50	1169	1457
51	1140	1379
52	1156	1311
53	1189	1178
54		
55	1141	1190
56	945	1052
57	775	978
58	671	983
59	654	1000
60	521	~
61	507	740
62	512	570
63	544	511
64	445	431
65	150	346
66	26	373
67	42	330

COL/SOL  
Cut out o' knots. Down to 1 cap  
Rest for 2nd diagonal  
Now SE → NW

SOL again

COL

SOL 16 17 ho

COL

COL Tape 9  
in, 1437 ho  
SOL centre  
line

COL/SOL

Fix	*72	*74
68	251	124
69	352	21

COL/SOL Tape 11 after  
short use of Tape 9.

COL Tape  
10 in 15??

COL/SOL

Fix #	*72	*74	WAST WATER	Tue	O'clock - Sunny. Wind in pm.
1	1957	625	Tape 13 m1301	33 1142	3484 SOL 14-18 hrs
2	1977	556		34 996	3249
3	2033	434		35 938	3196
4	2118	268		36 896	3029 EOL SOL
5	2180	164		37 703	2866
6	2253	57	EOL	38 508	2757
7	2341	64	SOL	39 272	2617
8	2289	20	Repeat, engine u/s	40 126	2504 EOL stop work - wind 1 hour later restart Tape 15 m
9	2354	65		41 118	2495
10	2428	159		42 163	2395
11	2525	294		43 336	2292
12	2614	415		44 513	2185 EOL SOL
13	2711	543		45 432	2092
14	2797	646	EOL	46 366	1987
15	2884	644	SOL	47 389	1916
16	2957	655		48 463	1846
17	3020	678		49 510	1820 EOL SOL
18	3097	727	EOL Tape 14 m	50 550	1762
19	3305	964	SOL	51 612	1684
20	3048	719		52 727	1579
21	2774	484		53 849	1489
22	2525	323		54 971	1412 ch Tape 16 m
23	2246	307		55 1004	1342
24	1912	514		56 1229	1274
25	1574	813		57 1254	1222
26	1223	1150		58 1256	1129
27	857	1516		59 1288	1036
28	549	1854		60 1326	976
29	273	2255		61 1377	922
30	416	2743		62 1412	891
31	844	3139		63 1487	811
32	1266	3564	EOL	64 1580	731
				65 1709	651

Fix #	*72	*74
66	1890	595
67	2053	587
68	2090	543
69	2175	312
70	2249	140
71	2309	25

Tape 18

ENNGRDALE

Wed <sup>1/2</sup> good weather

Tape 18-19-20-21

Fix #	*74 oc	*72 HR	Fix #	*74	*72	
1	1625	177	29	870	838	1439 <sup>h</sup>
2	1299	393	30	742	856	
3	883	754	31	633	934	
4	582	1079	32	610	1031	
5	424	1316	33	664	1161	EOL ch Tape Tape 20 in @ 1450 <sup>h</sup>
6	364	1621	34	650	1180	
7	460	1886	35	509	1250	
gain 7 → 8	yesterday x1 using old standby box		36	324	1355	
8	628	2141	37	155	1465	
9	846	2408	38	55	1543	EOL/SOL 1457 <sup>1/2</sup>
10	1111	2713	39	75	1616	
11	1335	2950	40	270	1757	
12	1716	3340	41	458	1884	
13	2052	3688	42	680	2025	
EOL. Tape 19 in gain 8 → 7			43	794	2099	EOL 1507 <sup>1/2</sup>
14	1459	162	44	771	2124	
New Stylus in, tape rewound			45	888	2130	
15	1443	173 @ 1411 <sup>h</sup>	46	611	2152	
16	1430	136	47	575	2192	
17	1415	214	48	574	2262	EOL 1517
18	1436	398	49	653	2309	
19	1461	493	50	828	2462	
20	1513	625	51	987	2598	
21	1603	780	52	1155	2742	
EOL @ fence line			53	1299	2857	EOL 1527 Tape 21 in
22	1677	873 @ 1423 <sup>h</sup>	54	1344	2920	
23	1529	747	55	1322	2929	
24	1364	618	56	1304	2935	
25	1216	541 gain 7 → 8	57	1305	2969	EOL 1536
26	1084	531	58	1467	3117	
27	970	594	59	1619	3255	
28	900	706	60	1708	3428	
			61	1915	3526	Tape 21 2/5 <sup>h</sup> used but



Mon 22/6/1987. Vela 1000 rpm. Peter Cobby (skipper) Start tape No 22 @ 12.13 hrs. PSU using 25 p/pts @ 3800 volts, Ignition switch. Page 1 of 2. Tapes 22-26 used.

Station 74 @ 338520 east 493035 north. Sta 72 @ 338420 east 493035 north.

NOTE: Ranges below must be corrected for instrumental error. These figures to be provided

Fix No	Sta 74	Comment	Fix No	Sta 74	Comment	Fix No	Sta 72	Sta 74	Comments
1	50	Start tape 22	28	4245		54		575	
2	255			out of range	EOL/SOL	55		335	* 72 in range
3	521		29	4867		58	896	249	
4	784	EOL/SOL 12.21 1/2 hrs	30	5058	EOL/SOL	57	684	232	
5	928		31	5094		58	436	400	
6	1109		32	5742		59	354		* 74 out of range
7	1314		33	-	EOL 13.15 hrs out of range.	60	490		
8	1554		34	5809	13.18 hrs Tape on start cable line	61	737		
9	1693		35	5487		62	986		
10	2025		36	5203		63	1274		
11	2080	Repeat preceding line on reciprocal course due to inferior boat.	37	4956		64	1546		
12	1923		38	4713		65	1793		
13	1685		39	4423		66	2081		At Ferry House slip EOL SOL 14.17 1/2 hrs
14	1592	EOL 12.44 tape off	40	4157		67	1959		
15	1960		41	3869		68	1598		EOL at boat house in fence south of boat on east side of lake
16	2085	SOL Start tape 12.45 hrs	42	3580		69	1479		
17	2240		43	3302		70	1242		
18	2400		44	3041		71	954		
19	2557		45	2787	13.40 hrs Aether 50?	72	726		EOL/SOL
20	2667	EOL 12.52 hrs Boat starts speed back to normal.	46	2579		73	617		
21	2731		47	2217		74	626		
22	2862		48	1963		75	723		? Tape mount?
23	3023		49	1695		76	792		EOL/SOL
24	3214	12.58 hrs Tape 23 in	50	1411		77	618		
25	3506		51	1291	Tape 24 in 14.10 hrs	78	803		Restart. Tape 25 14.45
26	3772		52	1022		79	684		
27	4245		53	820	2000 hours of lake to avoid water of vessel passing.	80	561		

NOTE Ranges require a significant correction to be accurate. These figures will be measured and later advised.

Fix No	* 72	
81	526	
82	589	EX.
END OF SOUTH BASIN WORK		
ATTEMPT TO SURVEY NORTH BASIN - later aborted.		
Fix No	TIME	LOCATION
83		Twist rock of Thomsons Holm and Nth end Bell Isle
84	15.55	Adjacent Nth end of hooded Holm Isle
85	15.58 <sup>1</sup> / <sub>2</sub>	" " " " Rough Holm
86	1602	Just post perpendicular (to track) to hill on E side - Queen Adelaide's Hill
87	1609	Twist Ball Grange and Trout Beck nearby.
88	1613 <sup>1</sup> / <sub>2</sub>	Perpendicularly adjacent hard launching ramp by jetty, E side, White Lion Bay.
89	1617	Just N of jetty on below Balla Wray.
90	1620 <sup>1</sup> / <sub>2</sub>	Twist Epley Point and jetty N side of Breakhole Mt. Pt. Via Carre on E side.
91	1623 <sup>1</sup> / <sub>2</sub>	Adjacent landing stage S of Langdale Chase Hotel
92	1627	" Lowwood Hotel, east side.
93	1631	Tape 26 m (15 sec lost) Opposite Helen Cay - possibly a bit north of it.
94	1635	EOL, 100 m short of shore line
<del>95</del>		
95	1646	Commence zig-zag, but P50 failure. Work abandoned. Later found due to intense vibration (of Vebis) cracking a printed circuit board track leading to an S.R. failure.

