

7/7/87

theo survey from Kadn

①

	time	HE	VE	HI	VI
Grand Central	16:19	0.0270	98.8699	200.0268	301.1174
Juncture	16.29	323.1194	97.6710	123.0680	302.3240
Grand Cent	1632	0.0230 .0251	98.8811	200.0284	301.1177
Snag	<u>in the gloom</u>				
flag 3	16 43	7.7413	105.6477	207.7724	294.3519
4	1647	370.7190	102.9453	170.7214	297.0482
Upice	1651	362.0331	101.7496	162.0365	298.2505
sighted on reflectors at bottom of flag.					

(entered into grid)

1 188.6965

7/7/87 THEO. SURVEY FROM KADIN

(2)

no wind, light rain, occasional fog

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
SNAG	19:55	170.7620	102.8506	370.7824	297.1506
G. CENTRAL	20.00	131.9432	98.8179	331.9410	301.1175
JUNCTURE	20.04	55.0072	97.6785	255.0078	302.6408
4	20:19	102.6716	102.9497	302.6748	297.0453
2	20:24	164.66724	104.9698	364.6771	295.0254
3	20:30.	139.7286	105.6522	339.7356	294.3549
UPPER CAMP	20:35	99.9706	101.7498	293.9766	298.2472
G. Central		131.9583	98.8818		
(fogged out)					
[entered in Grid]					
(131.9475)					

7/8/87

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	14:07	134.8640	98.8724	334.8672	301.1255
DOWN ICE	14:14	198.5296	104.5610	398.5313	295.4412
2	14:20	167.7365	105.0040	367.6949	295.0505
3	14:26	142.7748	105.6500	342.7744	294.3482
4	14:31	105.6716	102.9500	305.6740	297.0490
upice	1434	96.8701	101.7581	296.8738	298.2445
GrandC.	1436	134.8502	98.8749	334.8612	301.1280
Snag	1439	173.7012	102.8479	373.7040	297.1568
Barefoot	1442	241.1860	100.6662	41.1773	299.3334
Juncture	1445	57.9230	97.6674	257.9200	302.3321
Easy	1448	187.6425	100.6289	387.6377	299.3652
GrandC	1449	134.8475	98.8698	334.8581	301.1284
SUNSHINE, SLIGHT BREEZE					

gc = 134.8542

[entered in Grid]

(134.8607)

(3)

7/8/87 Survey from Kadin - overcast, occasional rain, intermittent wind. MFM

	time	HE	VE	H1	V1
Downice	1030	198.5064	104.5602	398.5130	295.4286
Grand C	1040	134.8450	98.8708	334.8585	301.1269
"	1052	0.0027	98.8687	200.0108	301.1285
Upice	1057	362.0218	101.7532	162.0260	298.2454
#4	1101	370.8018	102.9462	170.8078	297.0522
3	1111	7.8952	105.6352	207.9006	294.3653
	to top of stake - Flag detatched part way down				
Snag	1121	38.8452	102.8424	238.8504	297.1635
2	1130	32.8315	*	232.8398	295.0454

* aborted due to high wind, rain.

Entered into grid

(0.0068)	Scott on instrument. Partial sun
Grand C	1716
	0.0049
	98.8699
	200.0138
	301.1280
Upice	1723
#4	1730
3	1735
	7.9516
	105.6422
	207.9644
	294.3546*
	top of stake
2	1740
	32.8691
	104.9550
	232.8822
	295.0457
Downice	1747
Grand C	1749
	0.0024
	98.8708
	200.0134
	301.1255

Entered into grid

(40)

* problems

7/8/87 | Kadim Survey
by MFM | mostly overcast, some sun
good stable conditions

Location	time	HE	VE	HI	VI
GrandC	2037	0.0054	98.8700	200.0094	301.1233
up ice	2042	362.0258	101.7540	162.0297	298.2416
#4	2046	370.8586	102.9497	170.8634	297.0442
3 (top) top of stake	2050	7.9741	105.6411	207.9767	294.3552
2	2053	32.8932	104.9555	232.8964	295.0410
down ice (to reflecting)	2058	63.6816	104.5657	263.6843	295.4336
GrandC	2102	0.0071 (0.0080)	98.8689	200.0103	301.1254

7/9/87 | entered into grid ↑

Set ablatograf #1 @ ~1338.

Need file, scale, level. Marked poles
with pencil at ice surface at 1338.

(5)

7/9/87 Survey at Kadin - D. Stone

Mostly overcast - some blue, some rare sprinkles

(-2)

Grand C	1028	0.0048	98.8697	200.0096	301.1293
Downice	1031	63.7014	104.5535	263.7062	295.4428
2	1034	32.9904	104.9622	232.9919	295.0375
3	1036	8.0868	105.6559	208.0858	294.3442
4	1038	370.9388	102.9566	170.9401	297.0449
Upice	1040	362.0360	101.7563	162.0376	298.2449
Grand C	1042	0.0071	98.8696	200.0090	301.1286

(entered into grid)

$\bar{g}_C = .0076$

7/9 Survey Dan Stone. Partial overcast, breeze

-2

Grand C	1742	0.0020	98.8667	200.0044	301.1279
Downice	1745	63.7074	104.5577	263.7091	295.4401
2	1747	33.0335	104.9640	233.0348	295.0351
3	1750	8.1361	105.6590	208.1396	294.3406
4	1752	370.9748	102.9578	170.9795	297.0388
Upice	1755	362.0369	101.7581	162.0377	298.2400
Grand C	1757	0.0025	98.8710	200.0045	301.1283

(entered into grid)

$\bar{g}_C = .0034$

[Also entered into grid for B.11's Book]

0709 08

9 July

7/9/87 early morning Survey by Dan (on ⑥ Inter)
 Clear, still somewhat cloudy

Loc	TIME	HE	VE	HI	VI
G.C.	0500	0.000	98.8718	200.0024	301.1266
down ice	0507	63.6852	104.5532	263.6887	295.4398
#2	0510	32.9414	104.9598	232.9482	295.0404
3	0513	8.0292	105.6428	208.0378	294.3482
4	0515	370.8982	102.9534	170.9066	297.0431
up ice	0517	362.0245	101.7564	162.0282	298.2407
G.C.	0520	399.9971	98.8700	200.0030	301.1268
snag	0523	38.8388	102.8327	238.8476	292.1554
easy	0526	52.7849	100.6266	252.7916	299.3675
bearfoot	0529	106.3266	100.6634	306.3239	299.3356
juncture	0531	323.0644	97.6678	123.0693	302.3299
G.C.	0533	399.9981	98.8658	200.0040	301.1284
[Entered in Grid]					

7/9/87 SURVEY BY DAN

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	14:29	0.0010	98.8729	200.0024	301.1252
DN. ICE	14:33	63.6986	104.5584	263.7010	295.4399
2	14:35	33.0075	104.9646	233.0106	295.0364
3	14:38	8.1089	105.6655	208.1105	294.3331
4	14:40	370.9590	102.9558	170.9614	297.0432
UP ICE	14:42	362.0363	101.7569	162.0375	298.2418
G.C.	14:46	399.9992	98.8707	200.0063	301.1273
SNAG	14:49	38.8473	102.8412	238.8500	297.1562
EASY	14:51	52.7893	100.6295	252.7965	299.3488
BR FT	14:52	106.3293	100.6648	306.3326	299.3355
JUNC	14:54	323.0681	97.6680	123.0710	302.3315
G.C.	14:57	0.0012	98.8691	200.0035	301.1287

(.0022)

\$C = .0022

entered into Grid

7/9 Survey from Kadin - Scott Lundstrom
overcast, cool, slight breeze.

(7)

Grand C	2022	0.0050	98.8705	200.0081	301,1286
Upice	2028	362.0394	101.7551	162.0450	298.2412
4	2031	370.9936	102.9620	170.9964	297.0362
3 ^{here}	2035	8.1599	105.6684	208.1624	294.3286
2	2038	33.0545	104.9654	233.0576	295.0340
Downice	2043	63.7146	104.5582	263.7180	295.4413
Grand C.	2047	0.0037	98.8703	200.0108	301,1248
<u>gc = .0069</u>		entered into grid			

7/10 Survey Kadin, MM. Overcast, cool

GC	1010	.0049	98.8712	200.0077	301.1286
Upice	1016	362.0474	101.7612	162.0496	298.2378
4	1020	371.0724	102.9654	171.0742	297.0334
3	1024	8.2693	105.6701	208.2707	294.3297
2	1028	33.1504	104.9665	233.1534	295.0307
Downice	1034	63.7364	104.5646	263.7362	295.4370
G.C.	1037	0.0110	98.8696	200.0130	301.1270
<u>gc = .0092 (92)</u>		entered into grid			

(B)

7/10 Needed helicopter tasks

(1) Put ablatograf stuff on ice, pack sand up from Heather Island.

(2) Add larger panel at down ice, repair flag 3 (need conduit, drill, flagging)

(3) Try to make repeater work

With Roy - Gate, Heather, Kadin instruments
Groceries & Supplies.

10 July Kadim survey by Scott Lundstrom cool, cloudy, breezy

	time	HE	VE	HI	VI
GC	12:36	0.0050	98.8666	200.0065	301.1290
upper ice	12:40	362.0471	101.7585	162.0486	298.2394
#4	12:44	371.0832	102.9694	171.0844	297.0296
#3	12:50	8.2850	105.6801	208.2866	249.3210
#2	12:54	33.1622	104.9704	233.1622	295.0317
down ice	12:58	63.7322	104.5554	263.7334	295.4414
GC	13:01	0.0040	98.8704	200.0056	301.1283

gc = .0053

entered in grid

(9)

7/10/87 Survey by Dan, notes by Dan

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H. I.</u>	<u>V. I.</u>
G.C.	4:29	0.0010	98.8691	200.0025	301.2890
DOWN ICE	4:31	63.7181	104.5500	263.7219	295.4444
2	4:38	33.1069	104.9633	233.1126	295.0296
3	4:41	8.2229	105.6694	208.2247	294.3301
4	4:47	371.0383	102.9600	171.0446	297.0346
UP ICE	4:51	362.0409	101.7598	162.0485	298.2356
G.C.	4:55	0.0018	98.8707	200.0055	301.1298

~ cold, overcast, ½ windy entered into Grid

10 July 87 Survey by Dan, notes by Bill

Loc	Time	HE	VE	HI	VI
GC	15:39	0.0010	98.8690	200.0023	301.1284
DOWNICE	15:41	63.7338	104.5543	263.7348	295.4438
2	15:43	33.1792	104.9645	233.1790	295.0325
-3	15:45	8.3059	105.6673	208.3068	294.3189
4	15:47	371.0964	102.9631	171.0958	297.0365
Up ICE	15:49	362.0467	101.7575	162.0474	298.2386
GC	15:51	0.0011	98.8684	200.0012	301.1281

gc = .0014

warm, overcast, no wind

Snag	15:53	38.8452	102.8381	238.8461	297.1562
Junction	15:55	323.0672	97.6628	123.0686	302.3354
GC	15:57	399.9993	98.8685	199.9994	301.1294

Forged out of Easy & Bayfoot

entered into gridAlso entered into grid from Bill's Book:

071087

10 July

(10)

7/11/87 Survey by Mark, notes by Dan

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
SNAG	10:41	38.8398	102.8411	238.8422	297.1540
UP ICE	10:45	362.0496	101.7605	162.0509	298.2312
4	10:49	371.1979	102.9681	171.1986	297.0236
3	10:50	8.4469	105.6816	208.9456	294.3131
2	10:52	33.3007	104.9679	233.3009	295.0286
DOWN ICE	10:55	63.7511	104.5538	263.7525	295.4444
SNAG	10:58	38.8391	102.8409	238.8410	297.1557

FOG, BREEZY & SLIGHT DRIZZLE - CAN'T SEE G. CENTRAL

$$\begin{aligned} \text{SNAG} &= 38.8405 \\ \frac{\text{SNAG}}{9.2^\circ} &= -0.0045 \end{aligned}$$

[entered into Grid]

7/11/87 Survey by Dan, notes by Dan

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
SNAG	13:25	38.6030	102.8390	38.8043	297.1566
DOWN ICE	13:29	63.7202	104.5514	263.7226	295.4407
2	13:33	33.2812	104.9713	233.2816	295.0256
3	13:37	8.4310	105.6872	208.4319	294.3112
4	13:40	371.1766	102.9734	171.1772	297.0253
UP ICE	13:44	362.0144	101.7656	162.0147	298.2309
SNAG	13:48	FOGGED OUT			

FOG & RAIN - NO WIND

$$\text{gc} = -.0413$$

[entered into Grid]

7/11/87 Survey by Dan, notes by Bill

Loc	Time	HE	VE	HI	VI
Roger	22:32	2.0010	102.9073	202.0026	297.0898
Downline	22:35	63.7532	104.5485	263.7515	295.4504
2	22:37	33.3638	104.9720	233.3638	295.0227
3	22:38	8.5233	105.6905	208.5238	294.3081
4	22:41	371.2490	102.9794	171.2492	297.0212
Upice	22:43	362.0389	101.7665	162.0407	298.2284
Roger	22:45	2.0010	102.9048	202.0021	297.0888

$$\text{Roger} = -0.230$$

[entered into Grid]

7/11	Survey	Kadin SCL	patchy fog fine mist to rain notes by 6:17 0884		
Roger	time	HE	VE	H1	V1
6:47	16:47	264.6184	102.9078	24.6192	297.0516
GC Nadir	16:51			62.5920	301.1279

set zero at GC

GC	16:54	0.0052	98.8700	200.0050	301.1277
Roger	16:58	2.0312	102.9083	202.0306	297.0912
(new fixed station below Grand Central, at ice level)					
Upice	17:02	362.0670	101.7635		
		162.0668	298.2326	162.0668	298.2326
#4	17:05	371.2450	102.9745	171.2449	297.0237
#3	17:10	8.5076	105.6858	208.5078	294.3078
#2	17:15	33.3554	104.9698	233.3538	295.0280
Downice	17:19	63.7725	104.5512	263.7748	295.4484
Roger	17:29	2.0318	102.9070	202.0286	297.0906

rover
to GC = 0058
GC fogged out
entered in grid

7/12 Survey by Scott Notes by Scott
rain, patchy fog, east see some sights

GC	0714	0.0050	98.8684	200.0060	301.1299
upice	0723	362.0732	101.7632	162.0735	298.2332
#3	0736	8.6238	105.7994	208.6200	298.3054
GC	0750	0.0027	98.8708	200.0054	301.1264
gc = .0047				entered in grid	

July 12 survey by Mark notes by Scott (12)
 continued light steady rain overcast same gear
 along

Loc	time	HE	VE	H1	V1
GC	1140	0.0077	98.8704	200.0101	301.1283
Roger	1144	2.0322	102.9082	202.0356	297.0911
upice	1146	362.0794	101.7697	162.0807	298.2279
#4	1150	171.3696		171.3586	297.0169
		371.3588 ↑	102.9833		
H3	1153	8.6575	105.7015	208.6572	294.2983
#2	1157	33.4841	104.9742	233.4833	295.0222
downice	12:00	63.8003	104.5557	263.8028	295.4456
				(most very faint)	
Roger	1204	2.0320	102.9030	202.0331	297.0909
G.C.	1207	<u>0.0074</u>	<u>98.8698</u>	<u>200.0086</u>	<u>301.1272</u>
		Centered into grid			

12 July - Survey by SL, notes MM, light rain, slight breeze

Loc	time	HE	VE	H1	V1
GC	1436	0.0050	98.8698	200.0080	301.1266
roger	1438	2.0296	102.9074	202.0332	297.0942
upice	1442	362.0774 371.3658	101.7670	162.0810	298.2306
#4	1445	171.3696	102.9862	171.3696	297.0148
#3	1448	8.6763	105.6996	208.6770	294.2980
#2	1452	33.5025	104.9772	233.5011	295.0182
downice	1455	63.8012	104.5496	263.8030	295.4506
roger	1458	2.0289	102.9066	202.0286	297.0918
gc	1501	<u>0.0033</u>	<u>98.8699</u>	<u>200.0040</u>	<u>301.1260</u>
		Centered into grid			

12 July survey from Kadin rain Survey Dan notes: Pg 11 (13)

Loc	time	HE	VE	HI	VI
G.C.	8:59	0.0012	98.8681	200.0023	301.1258
Roger	9:01	2.0264		202.0259	297.0899
Downice	9:03	63.7906	104.5482	263.7901	295.4469
		(upper left corner not reflector)			
2	9:06	33.4591	104.9714	233.4594	295.0251
3	9:09	8.6286	105.6954	206.6260	294.3016
4	9:11	371.3323	102.9796	171.3334	297.0187
Upice	9:13	362.0702	101.7688	162.0704	298.2271
Roger	9:15	2.0249	102.9053	202.0260	297.0906
G.C.	9:17	0.0009	98.9700	200.0032	301.1264

entered into grid



7/12/87 Notes by Roy, Survey by Dan

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	2305	0.0010	98.8677	200.0021	301.1296
DOWNICE	2307	63.8073	104.5565	263.8080	295.4410
2	2309	33.5538	104.9759	233.5546	295.0219
3	2310	8.7400	105.7052	208.7400	294.2934
4	2313	371.4134	102.9850	171.4122	297.0121
UPICE	2314	362.0795	101.7714	162.0796	298.2248
G.C.	2316	0.0018	98.8687	200.0024	301.1276
Roger	2319	2.0264	102.9054	202.0268	297.0929

entered into grid



Also entered in grid from Scott's book

Date

071217

17 July

~~Kadin test~~

Rocket - on 3 D

Other - on 1 D

Survey @ Kadin - Dan Stone - overcast,
little wind. 12 July 87

time HE VE HI VI

GC 2049 0.0014 98.8692 200.0024 301.1300

downice 2052 63.8035 104.5570 263.8038 295.4410
sighted on reflector

2 2054 33.5382 104.9753 233.5390 295.0220

3 2055 8.7221 105.7044 208.7229 294.2946

4 2057 371.3999 102.9854 171.3998 297.0134

upice 2059 362.0767 101.7700 162.0772 298.2264

GC 2101 0.0008 98.8696 200.0021 301.1280

entered on grid

13 July Kadin survey. MFM, notes Bill good visibility
scattered high clouds, some breeze

time HE VE HI VI

GC 11:32 0.0074 98.8700 200.0079 301.1280

upice 11:34 362.0902 101.7724 162.0937 298.2274

4 11:38 371.4914 102.9906 171.4910 297.0089

3 11:41 9.8438 105.7160 208.8439 294.2865

2 11:44 33.6445 104.9802 233.6460 295.0180

downice 11:47 63.8310 104.5586 263.8331 295.4433

~~2~~ ~~1~~ sighted on reflector

GC 11:50 0.0072 98.8718 200.0084 301.1287

entered on grid

(15)

13 July - D Stone survey - cool, breezy, partial overcast. slight instrument jingle

22

	time	z	HE	VE	HI	VI
GC	1413	0.0010	98.8688	200.0025	301.1294	
downice	1414	63.8289	104.5543	263.8296	295.4438	
2	1417	33.6580	104.9781	233.6582	295.0199	
3	1419	8.8578	105.7158	208.8584	294.2830	
4	1422	371.5012	102.9904	171.5005	297.0073	
upice	1424	362.0893	101.7740	162.0885	298.2242	
GC	1425	0.0024	98.8694	200.0029	301.1290	
roger	1428	2.0276	102.9054	202.0289	297.0932	
snag	1430	38.8479	102.8395	238.8488	297.1599	
GC	1432	0.0034	98.8698	200.0045	301.1315	

entered into grid

pipe

	Note HI at Kadin is 0.43 m above pipe					
pipe	13 July, MFM, clear breezy partial sun after					
GC	1626	0.0053	98.8690	200.0049	301.1302	
downice	1630	63.8353	104.5498	263.8372	295.4482	
72	1637	33.6772	104.9826	233.6765	295.0170	
the w/ N3	1634	8.8804	105.7181	208.8789	294.2776	
4	1639	371.5176	102.9938	171.5174	297.0027	
upice	1643	362.0918	101.7731	162.0922	298.2228	
GC	1646	0.0041	98.8706	200.0064	301.1249	

notes taken while holding tall
parasol in wind

entered into Grid

(9)

13 July - Scott L survey. Mostly clear, (16)
slight to moderate wind.

GC	1851	0.0050	98.8672	200.0056	301.1294
spice	1855	362.0950	101.7732	162.0961	298.2251
4	1858	371.5313	102.9948	171.5320	297.0044
3	1900	8.8984	105.7210	208.8978	294.2750
2	1907	33.6945	104.9812	233.6944	295.0168
downice	1909	63.8412	104.5454	263.8416	295.4546
gc	1912	0.0068	98.8720	200.0082	301.1280

Entered into grid

(6x)

Also entered into grid from Scott's book

071304

13 July

071309

13 July

Down, notes by Bill

(17)

13 July Kaden Survey, clear, breezy

time	HE	VE	HI	VI
GC 21:24	0.0010	98.8708	200.0018	301.1286
downice 21:27	63.8374	104.5548	263.8382	295.4430
two 21:28	33.7065	104.9814	233.7073	295.0205
three 21:30	8.9135	105.7242	208.9142	294.2748
four 21:32	371.5407	102.9924	171.5412	297.0049
upice 21:34	362.0911	101.7748	162.0909	298.2232
GC 21:36	0.0005	98.8690	200.0014	301.1288

entered in Grid

14 July 87 Kaden survey by Scott, notes by Bill.

Breeze, heavy overcast, not much light

time	HE	VE	HI	VI
GC 04:21	0.0090	98.8670	200.0055	301.1294
downice 4:25	63.8516	104.5452	263.8531	295.4529
two 4:29	33.7578	104.9822	233.7586	295.0138
three 4:33	8.9722	105.7262	208.9722	294.2710
four 4:36	371.5860	102.9954	171.5860	297.0016
upice 4:40	362.0984	101.7692	162.1020	298.2038
GC 4:43	0.0062	98.8704	200.0055	301.1279

entered in Grid

(46)

14 July 87 Kadin survey by Scott

(18)

Comments overcast breezy rain on lower glacier.

loc	time	HE	VE	HI	VI
GC	655	0.0050	98.8686	200.0053	301.1294
roger	658	2.0300	102.9068	202.0287	293.0920
down ice	702	63.8564	104.5430	263.8548	295.4534
2	706	33.7768	104.9818	233.7792	295.0192
3	710	8.9946	105.7282	208.9958	294.2676
4	713	371.6039	102.9970	171.6050	296.9952
upice	716	362.0993	101.7722	162.1042	298.2192
roger		fogged out			
gc		fogged out			

(52)

fog moving up lower glacier rapidly

- barely see #4 through mist

entered in grid

(19)

7/14/87 Kadin survey by Dan, notes by Scott

Rain & fog, little or no breeze

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
ROGER	0923	2.0194	102.9054	202.0200	297.0947
SNAG	fogged out				
DOWN ICE	0925	63.8454	104.5534	263.8477	295.4466
2	0929	33.7801	104.9836	233.7818	295.0175
3	0931	8.9997	105.7305	208.9999	294.2698
4	0933	371.6030	102.9967	171.6035	297.0012
UP ICE	0935	362.0896	101.7747	162.0912	298.2225
SNAG	0937	38.8388	102.8370	238.8398	297.1589
ROGER	0939	2.0186	102.9054	202.0193	297.0949

entered into grid

7/14/87 Kadin survey by Dan

light rain, low clouds, slight breeze

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
roger	1116	2.0200	102.9059	202.0206	297.0911
down ice	1118	63.8524	104.5540	263.8517	295.4434
two	1120	33.7946	104.9820	233.7956	295.0182
three	1122	9.0168	105.7314	209.0164	294.2674
four	1124	371.6147	102.9981	171.6152	297.0018
up ice	1126	362.0928	101.7760	162.0944	298.2211
roger	fogged out				

entered in grid

7/14/87 Survey by Dan, Notes by Dan
 (20)
 Clearing clouds, windy, cold, clearing fog

<u>LOC.</u>	<u>TIME</u>	<u>H. E.</u>	<u>V. E.</u>	<u>H. I.</u>	<u>V. I.</u>
G.C.	2202	0.0010	98.8675	200.0022	301.1316
ROGER	2205	2.0263	102.7139	202.0281	292.0915
DOWN ICE	2208	63.8723	104.5523	263.8739	295.4449
2	2211	33.8760	104.9852	233.8769	295.0101
3	2220	9.1096	105.7358	201.1097	299.2628
4	2214	371.6865	103.0012	171.6866	296.9951
UP ICE	2223	362.1020	101.7770	162.1096	298.2178
EASY	2227	52.7888	100.6913	252.7926	299.3703
G.C.	2230	0.0019	98.8685	200.0023	301.1281

Entered into GRID

(18)

7/15 Kadem survey by Bill, note by Bill
 not a channel in the sky, cool (new ice on much) sun
 almost up, gibbons narrow, almost no wind

Loc	time	NE	VE	HI	VI
gc	0443	0.0100	98.8681	200.0113	301.1298
downice	0452	63.8889	104.5527	263.8881	295.4478
Two	0455	33.8270	104.9837	233.9279	295.0127
Three	0458	9.1680	105.7372	209.1674	294.2601
					209.1674
Four	0501	371.7298	103.0021	171.7329	296.9958
upice	0505	362.1178	101.7800	162.1196	298.2175
(center of reflector)					
gc	0509	0.0095	98.8678	200.0116	301.1296

~~centered into grid~~ (108)

Kadin Survey by Scott notes by " clear, sunny calm (2)
heat, waves

loc	time	HE	VE	H.I.	V.I.
ice	719	0.0032	98.8700	200.0050	301.1309
spice	723	362.1124	101.7785	162.1160	298.2177
Four	727	371.7398	103.0048	171.7403	296.9952
three	731	9.1832	105.7464	209.1815	294.2582
two	735	33.9372	104.9859	233.9369	295.0146
down ice	738	63.8864	104.5424	263.8838	295.4562
ice	743	0.0032	98.8713	200.0015	301.1310
snowy	747	38.8462	102.8446	238.8492	297.1562
ice	751	0.0048	98.8670	200.0024	301.1302

[entered into grid]

(3)

7/15 Kadin survey by Mark, Notes by Dan

Mean : sunny, slight breeze

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	1000	0.0047	98.8700	200.0069	301.1276
DOWN ON LEFT ICE BASE OF FLAG	1003	63.8910	104.5548	263.8931	295.4476
2	1006	33.9592	104.9904	233.9601	295.0100
3	1009	9.2054	105.7458	209.2053	294.2556
4	1013	371.7584	103.0092	171.7589	296.9919
UP ICE	1016	362.1166	101.7811	162.1181	296.2196
G.C.	1019	0.0045	98.8706	200.0064	301.1275

[entered into grid]

(36)

7/15 Kaden survey mfm, sunny, some wind

slight heat wave
good viewing
(22)

Loc	time	HE	VE	HI	VI
gc	12:41	0.0057	98.8690	200.0069	301.1268
downice	12:43	63.8966	104.5502	263.8966	295.4480
		to left base of flag			
2	12:46	33.9786	104.9861	233.9802	295.0081
3	12:49	9.2275	105.7471	209.2277	294.2512
4	12:53	371.7756	103.0073	171.7751	296.9914
upice	12:55	362.1196	101.7786	162.1198	298.2166
gc	12:58	0.0066	98.8714	200.0062	301.1292

entered in grid

(64)

7/15 Kadin survey by Mark, notes by Dan

Comments: fucking, shitty weather! !

some heat waves
slight breeze, sunny

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	1557	0.0050	98.8674	200.0044	301.1285
DOWN LEFT BASE ICE OFF FLAG	1600	63.8994	104.5476	263.8988	295.4506
2	1603	33.9990	104.9903	233.9998	295.0080
3	1607	9.2492	105.7472	209.2496	294.2496
4	1610	371.7908	103.0052	171.7906	296.9914
UP ICE	1614	362.1206	101.7782	162.1196	298.2172
G.C.	1616	0.0052	98.8712	200.0028	301.1268

SLOWLY DRIFTING OFF LEVEL DUE TO SUN.

ENTERED INTO GRID

(64)

Notes by Mark

(23)

15 July Dan Stone clear, salubrious,
breeze and some theo. jiggle.

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
-------------	-------------	-------------	-------------	-------------	-------------

gc	1818	0.0010	98.8698	200.0006	301.1288
downice*	1820	63.8985	104.5495	263.8992	295.4500 *
2	1823	34.0116	104.9882	234.0120	295.0088
3	1824	9.2657	105.7482	209.2639	294.2502
4	1827	371.7997	103.0101	171.7998	296.9886
upice	1829	362.1172	101.7824	162.1172	298.2145
gc	1831	0.004	98.8701	200.0018	301.1280

*sighted lower left corner of flag.
entered in grid)

(10)

7/15/87 Survey by mfm

Comments. wind, very clear viewing, clear sky + ^{low} ~~other~~ sun

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	21:08	0.0049	98.8721	200.0056	301.1272
DOWN ICE	21:11	63.9070	104.5500	263.9070	295.4476
2	21:15	34.0363	104.9916	234.0374	295.0055
3	21:18	9.2914	105.7510	209.2928	294.2474
4	21:21	371.8235	103.0118	171.8238	296.9876
UP ICE	21:24	362.1246	101.7834	162.1254	298.2148
G.C.	21:27	0.0058	98.8703	200.0070	301.1276

down ice flag is drooping on right side
sighted lower left corner of flag

(58)

entered in grid)

(24)

7/15/87 Survey by Dan, Notes by Scott
 Calm, clear, good visibility, getting dark

<u>LOC</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	2316	0.0010	98.8697	200.0013	301.1298
DOWN ICE	2321	63.9049	104.5488	263.9099	295.4492
2	2323	34.0498	104.9932	234.0528	295.0078
3	2325	9.3087	105.7534	209.3100	294.2493
4	2327	371.8341	103.0083	171.8349	296.9888
UP ICE	2331	362.1254	101.7822	162.1265	298.2156
G.C.	2334	0.0021	98.8702	200.0038	301.1285
Entered into grid					

(20)

7/16/87 survey by Scott
 overcast, light rain
 calm begins

gc	0524	0.0050	98.8691	200.0044	301.1272
Damille	0527	63.9154	104.5426	263.9166	295.4560
2	535 34.0904 →	104.9916 →	234.0523	234.0893	295.0053
3	0542	9.3570	105.7580	209.3562	294.2419
4	0547	371.8705	103.0144	171.8700	296.9846
up ice	0550	362.1262	101.7825	162.1272	298.2178
gc	0553	0.0044	98.8740	200.0028	301.1298
Entered in grid					

(36)

(25)

7/16/87 Scott - fog patches, slight
 east
 south breeze, overcast.

gc	0937	0.0059	98,8719	200.0062	301.1245
upice	0939	362.1322	101.7836	162.1345	298.2161
four	0941	371.8958	103.0183	171.8960	296.9826
three	0945	9.3928	105.7620	209.3922	294.2366
two	0948	34.1218	104.9908	234.1234	295.0018
downice	0951	63.9246	104.5434	263.9248	295.4580
gc	0954	0.0058	98.8742	200.0065	301.1275

entered in grid

(6)

7/16/87 survey by Dan, notes by Mark
 CLOUDY, RAIN, LITTLE WIND

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1131	0.0010	98,8683	200.0017	301.1301
DOWN ICE	1133	63.9222	104.5506	263.9232	295.4494
2	1136	34.1284	104.9950	234.1306	295.0068
3	1138	9. 4 3996	105.7593	209.4012	294.2413
4	1140	371.9015	103.0168	171.9006	296.9844
UP ICE	1141	362.1277	101.7858	162.1288	298.2140
G.C.	1143	0.0011	98,8720	200.0022	301.1265

entered in grid

(5)

7/16/87 Survey by Dan

#52⁽³⁾~~#19~~

(20)

low clouds, drizzle 1/3 fog, little wind, poor visibility

<u>Loc.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1322	0.0010	98.8692	200.0019	301.1286
DOWN ICE	1326	63.9249	104.5532	263.9254	295.4486
2	1329	34.1412	104.9945	234.1410	295.0064
3	1331	9.4133	105.7605	209.4147	294.2402
G.C. *	1335	399.9996	98.8722	200.0009	301.1264
** see 4 upice	1341	371.9114	103.0228	371.9108	296.9826
4	1344	362.1287	101.7868	162.1281	298.2112
g.c.	fogged in.				
roger	fogged out				

[entered in grid]

(14)

7/16/87	^{Scatt.} cool	N. breeze, overcast, fog patches			
GC	2043 ⁻²	0.0052	98.8641	200.0064	301.1282
roger	2046	2.0288	102.8992	202.0307	297.0932
upice	2048	362.1376	101.7849	162.1396	298.2110
4	2051	371.9602	103.0148	171.9612	296.9780
3	2054	9.4756	105.7615	209.4778	294.2360
2	2056	34.1956	104.9944	234.1974	294.9991
downice	2059	63.9400	104.5375	263.9408	295.4566
gc	2102	0.0038	98.8690	200.0072	301.1228

[entered in grid]

(56)

SURVEY BY DAN
NOTES BY DAN

(29)

7/16/87 COMMENTS: GOOD VISIBILITY, BREEZY

Loc	time	HE	VE	H1	V1
GC	2245	0.0010	98.8679	200.0015	301.1262
DOWN ICE	2251	63.9384	104.5468	263.9397	295.4510
2	2253	34.2062	104.9950	234.2070	295.0037
3	2256	9.4891	105.7626	209.4902	294.2356
4	2300	371.9686	103.0212	171.9687	296.9794
UP ICE	2304	362.1360	101.7880	162.1372	298.2108
GC	2307	0.0007	98.8679	200.0016	301.1262

(12)
ENTERED INTO GRID

Please double check!

windy, dim, overcast

717 87 Survey by Scott, notes by Bill

Loc	time	HE	VE	H1	V1
gc	0432	0.0054	98.8707	200.0078	301.1290
upice	0435	362.1435	101.7862	162.1420	298.2138
4	0437	372.0046	103.0258	172.0034	296.9712
3	0440	9.5387	105.7648	209.5393	294.2258
2	0442	34.2468	105.0026	234.2480	294.9980
downice	0446	63.9508	104.5368	263.9510	295.4582
gc	0448	0.0044	98.8744	200.0030	301.1287

(52)
entered in grid

7/17/87 Survey Antes by Scott (20)
overcast, light rain, good vis. 2.1.4, breeze

loc	time	NE	VE	H1	V1
gc	0650	0.0050	98.8689	200.0062	301.1309
upice	0654	362.1444	101.7838	162.1458	298.2077
4	0657	372.0200	103.0256	172.0172	296.9776
3	0701	9.5575	105.7685	209.5532	294.2315
2	0704	34.2675	105.0039	234.2654	295.0002
danielle	0708	63.9542	104.5400	263.9522	295.4524
gc	0711	0.0061	98.8736	200.0056	301.1296

entered in grid

(51)

7/17/87 Survey by Mark, notes by Scott
light rain, brrr, fair to poor vis. 2.1.2.

gc	0931	0.0045	98.8682	200.0060	301.1298
down ice	0934	63.9552	104.5448	263.9582	295.4582
		bottom of Rleg →		^{topographic} corrected → 295.4511	
two	0939	34.2807	104.9940	234.2811	295.0047
three	0941	9.5747	105.7686	209.5792	294.2300
four	0944	372.0345	103.0251	172.0352	296.9745
upice	0950	362.1460	101.7860	162.1478	298.2094
gc	0954	0.0048	98.8696	200.0057	301.1272

Entered in grid

(52)

mfm, notes by Bill

(29)

17 July Kadin survey - high overcast, sun breaking through, no wind, no fog, good viewing, bad eyes

loc	time	HE	VE	HI	VI
gc	11:35	0.0052	98.8728	200.0060	301.1264
downice	11:37	63.9577	104.5493	263.9588	295.4544
2	11:40	34.2958	105.0000	234.2976	295.0008
3	11:44	9.5920	105.7742	209.5950	294.2292
4	11:47	372.0480	103.0248	172.0481	296.9762
upice	11:50	362.1476	101.7870	162.1494	298.2140
gc	11:53	0.0034	98.8715	200.0045	301.1289

Entered into grid

(48)

17 July Kadin survey by Scott NOTES BY DAN
Overcast, clearing, heatwaves

LOC	TIME	H.E.	V.E.	H.I.	V.I.
GC	1331	0.0050	98.8694	200.0055	301.1252
downice	1333	63.9596	104.5409	263.9603	295.4603
two	1336	34.3068	105.0178	234.3068	294.9842
Three	1339	9.6050	105.7732	209.6066	294.2240
four	1341	372.0570	103.0301	172.0576	296.9733
upice	1344	362.1464	101.7836	162.1491	298.2138
gc	1347	0.0033	98.8717	200.0034	301.1296

Entered into grid

(43)

7/17/87 Survey by Dan, Notes by Dan + B. 11
(30)

Comments: overcast, no wind, heat waves

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1546	0.0010	98.8709	200.0014	301.1301
DOWN ICE	1549	63.9607	104.5495	263.9620	295.4528
2	1554	34.3209	104.9975	234.3186	295.0018
3	1556	9.6194	105.7741	209.6208	294.2268
4 up ICE	1558	372.0657	103.0262	172.0657	296.9725
	1600	362.1439	101.7884	162.1440	298.2118
G.C.	1602	399.9990	98.8708	199.9993	301.1314
.

(2)

flag fallen, sighted to top of pole
entered into Grid

17 July 87 Survey by Dan, notes by Bill

Comments: overcast, ^{wind} breezy (jiggling theodolite)

loc	time	HE	VE	HI	VI
GC	17:53	0.0010	98.8693	200.0021	301.1302
downice	17:55	63.9624	104.5470	263.9640	295.4523
2	17:57	34.3330	104.9982	234.3331	295.0022
3	17:59	9.6379	105.7741	209.6379	294.2259
4	18:00	372.0785	103.0252	172.0790	296.9711
Upice	18:02	362.1471	101.7904	162.1474	298.2072
GC	18:04	0.0007	98.8696	200.0020	301.1299

(14)

entered into Grid

(31)

17 July 87 Kadum survey Dam (notes Bill)

Comments overcast, breeze, good visibility

loc	time	HE	VE	HI	VI
gc	19:56	0.0010	98.8698	200.0018	301.1308
downice	19:58	63.9646	104.5471	263.9659	295.4540
2	20:00	34.3472	104.9985	234.3462	294.9999
3	20:03	9.6525	105.7762	209.6545	294.2249
4	20:04	372.0910	103.0266	172.0920	296.9724
upice	20:05	362.1489	101.7910	162.1479	298.2069
gc	20:07	0.0017	98.8716	200.0015	301.1310

(15)

2: flag fallen, sighted to top of pole

~~ENTERED INTO GRID~~~~17 July SURVEY BY DAN, NOTES BY BILL~~

Comments: overcast, slight breeze, good visibility

loc	time	HE	VE	HI	VI
gc	22:22	0.0010	98.8682	200.0011	301.1300
downice	22:24	63.9676	104.5462	263.9694	295.4540
2	22:26	34.3665	104.9952	234.3671	295.0101
3	22:28	9.6731	105.7752	209.6732	294.2241
4	22:29	372.1053	103.0230	172.1053	296.9762
upice	22:30	362.1490	101.7801	162.1507	298.2138
gc	22:32	300.0000		399.9990	298.8690
gc	22:32	399.9990	98.8690	200.0017	301.1290

(1)

~~ENTERED INTO GRID~~

7/18 Kadlin Survey SCL
overcast, No wind, good viewing some fog

(32)

	loc	time	lat	lon	hi	vi
	roger	0607	2.0250	102.9074	202.0250	297.0912
	downie	0613	63.9800	104.5338	263.9794	295.4656
	2	615	34.4178	105.0206	234.4190	294.9791
	B	618	9.7356	105.7752	209.7358	294.2154
	-4	623	372.1514	103.0312	172.1526	296.9894
	upice	627	362.1515	101.7916	162.1572	298.2088
	roger	631	2.0240	102.9092	202.0253	297.0936

[entered into grid]

(1)

7/18 Kadlin survey SCL
overcast, fog clearing

	loc	time	lat	lon	hi	vi
	roger	830	2.0250	102.9074	202.0268	297.0944
	upice	833	362.1548	101.7917	162.1551	298.2065
	'4	836	372.1666	103.0369	172.1646	296.9672
	3	839	9.7548	105.7858	209.7544	294.2158
	2	842	34.4344	105.0210	234.4350	294.9818
	downie	846	63.9883	104.5353	263.9832	295.4646
	roger	0849	2.0273	102. ⁹⁰⁷⁴	202.0298	297.0916

[entered into grid]

(25)

2.0272

GC =

(33)

7/18/87 SURVEY BY DAN NOTES BY SCOTT

COMMENTS: BREEZY, CLEARING, SUN BREAKING THROUGH

LOC.	TIME	N.E.	N.E.	N.I.	N.I.
G.C.	1024	0.0010	98.8720	200.0008	301.1299
DOWN ICE	1025	63.9853	104.5426	263.9861	295.4582
2	1027	34.4474	104.9981	234.4478	295.0008
3	1030	9.7677	105.7816	209.7693	294.2192
4	1031	372.1768	103.0322	172.1770	296.9684
UP ICE	1033	362.1576	101.7918	162.1592	298.2072
G.C.	1035	0.0016	98.8707	200.0019	301.1288

(entered into grid)

(13)

7/18/87 Survey by Dan notes by Scott

partly sunny, high thin clouds, thin, calm, heat waves

6c	1319	0.0010	98.8695	200.0002	301.1305
down ice	1321	63.9867	104.5448	263.9899	295.4535
Two	1323	34.4648	105.0041	234.4647	298.9927
three	1325	9.7896	105.7852	209.7920	294.2149
Four	1326	372.1930	103.0377	172.1936	296.9646
up ice	1328	362.1578	101.7944	162.1610	298.2070
g.c.	1330	399.9991	98.8722	200.0019	301.1316

entered into grid

(1)

reentered

18 July

EDM survey from Kadem to
flags 2, 3, & 4

EDM inside white tent 2 m west of Kadem site

flag 2	used EDM #1 (which was down at down ice camp)
	2818.556 at 11:53
" .519	at 11:54:12
" .531	11:54:40
" .534	35:20
" .542	56:06
.552	57:00
.585	59:05

flag 3 · EDM #1 again ss ≈ 10-30, heat waves in foreground!

2364.712 at 12:15

4	EDM #2 (1 m S of EDM #1)	ss ~ 35-40
	2604.730	at 1223
"	.732	at 1224
"	.725	at 1225
	.725	at 1225:33

7/18/87

SURVEY BY MARK, NOTES BY Scott

(35)

SLIGHT BREEZE, SUN, HEAT WAVES, paravol used

LOC.	TIME	HE.	VE	H1	V1
GC	1546	0.0045	98.8704	200.0054	301.1249
downice	1549	63.9964	104.5456	263.9980	295.4538
two	1552	34.4856	105.0045	234.4883	294.9931
three	1555	9.8143	105.7885	209.8149	294.2108
four	1558	372.2135	103.0354	172.2140	296.9622
upice	1602	362.1603	101.7953	162.1652	298.2045
g.c.	1604	0.0021	98.8717	200.0028	301.1253

entered in grid

(37)

7/18/87 Survey by Scott, notes by Dan

cool breeze, sun on glacier and theo, heatwaves

gc	1749	0.0050	98.8712	200.0042	301.1282
downice	1754	63.9983	104.5365	263.9994	295.4623
two	1756	34.5005	105.0094	234.5034	294.9930
3	1759	9.8308	105.7900	209.8310	294.2086
4	1801	372.2252	103.0398	172.2252	296.9622
upice	1804	362.1650	101.7947	162.1634	298.2036
g.c.	1806	0.0025	98.8669	200.0027	301.1249

entered into grid

(38)

7/18/89

SURVEY BY MARK, NOTES BY DAN

(36)

COMMENTS: CLEAR, NO WIND, MOSQUITOS, GOOD VISIBILITY

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	2012	0.0095	98.8693	200.0049	301.1274
DOWN ICE	2015	64.0032	104.5398	264.0020	295.4552
2	2018	34.5179	105.0050	234.5180	294.9938
3	2021	9.8509	105.7882	5158.602	112.4662
4	2023	372.2410	103.0395	172.2408	296.9622
UP ICE	2026	362.1674	101.7920	162.1680	298.2045
G.C.	2028	0.0039	98.8712	200.0050	301.1272

ENTERED INTO GRID

(45)

7/19/89

SURVEY BY DAN, NOTES BY DAN & BILL

CLEAR, COOL, BREEZY, GOOD VISIBILITY

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	2226	0.0050	98.8690	200.0061	301.1274
DOWN ICE	2229	64.0070	104.5927	264.0081	295.4570
2	2232	34.5348	105.0066	234.5366	294.9938
3	2234	9.8696	105.7870	209.8699	294.2107
4	2236	372.2554	103.0350	172.2563	296.99623
UP ICE	2237	362.1708	101.7938	162.1716	298.2053
G.C.	2239	0.0054	98.8703	200.0062	301.1274

ENTERED INTO GRID

(51)

19 July 87 Kadın Survey by Scott, under by Bill (37)

comment: good viewing, clear + calm, sunning rising.

loc	time	HE	VE	HI	VI
gc	0544	0.0050	98.8696	200.0088	301.01256
upice	0547	362.1704	101.7916	162.1720	298.2066
four	0550	372.3022	103.0346	172.3000	296.9672
three	0553	9.9338	105.7908	209.9310	294.2088
two	0557	34.5927	105.0082	234.5906	294.9962
downin	0559	64.0212	104.5339	264.0211	295.4650
gc	0601	0.0090	98.8728	200.0104	301.1299

[entered into grid]

(37)

19 July 87 Kadın survey by Mark, notes by Scott
sunny calm, parasol used, slight heat waves

gc	0817	0.0028	98.8722	200.0059	301.1269
downice	0819	64.0188	104.5336	264.0174	295.4609
Atwo	0821	34.6017	105.0080	234.6016	294.9941
three	0825	9.9453	105.7939	209.9456	294.2071
four	0827	372.3108	103.0418	172.3087	296.9590
upice	0830	362.1698	101.7950	162.1722	298.2024
gc	0832	399.9988	98.8704	199.9970	301.1282

18718

[entered in grid]

(10)

DBS

(38) SCL

19 July Kadin survey by Scott notes by Scott
 clear, calm here, heat waves

loc	time	he	ve	hi	vi
gc	1032	0.0038	98.8702		
gc	1041	0.0050	98.8726	200.0072	301.1256
upice	1044	362.1753	101.7947	162.1776	298.2008
4	1047	372.3282	103.0430	172.3286	296.9562
3	1049	9.9694	105.7966	209.9714	294.1988
2	1053	34.6212	105.0098	234.6203	294.9915
downice	1056	64.0271	104.5363	264.0235	295.4634
		comment - very strong heat waves			
gc	1059	0.0040	98.8733	200.0056	301.1265
		entered into Grid			
					(54)

19 July Kadin survey by Mark notes by SCL
 sunny, calm, strong heat waves

gc	1325	0.0056	98.8710	200.0080	301.1280
downice	1328	64.0292	104.5377	264.0292	295.4604
two	1330	34.6412	105.0084	234.6428	294.9901
three	1333	9.9997	105.7966	209.9946	294.2043
four	1336	372.3498	103.0414	172.3506	296.9566
upice	1338	362.1807	101.7953	162.1845	298.2022
gc	1341	0.0085	98.8718	200.0095	301.1276

End

(55)

entered into Grid

19 July Kadem survey mfm, notes Bill (39)
 comment: hot, umbrella, calm, bad heat waves

loc	time	HE	VE	H	VI
GC	15:28	0.0052	98.8692	200.0060	301.1285
downice	15:33	64.0335	104.5388	264.0339	295.4600
two	15:37	34.6554	105.0100	234.6538	294.9869
three	15:39	10.0084	105.7973	210.0068	294.1979
four	15:42	372.3606	103.0430	172.3606	296.9559
upice	15:45	362.1792	101.7960	162.1820	298.1994
gc	15:48	0.0048	98.8716	200.0078	301.1241
<u>Entered into Grid</u>					

(6)

19 July Kadem survey . Scott, notes Bill
 comment : umbrella, clear, heat waves , calm

loc	time	HE	VE	H	VI
1 GC	17:48	0.0020	98.8691	200.0031	301.1272
downice	17:53	64.0311	104.5313	264.0310	295.4647
2	17:55	34.6658	105.0111	234.6640	294.9880
3	17:58	10.0194	105.7972	210.0207	294.1932
4	18:01	372.3696	103.0458	172.3714	296.9535
upice	18:04	362.1793	101.7926	162.1795	298.2025
gc	18:07	0.0034	98.8709	200.0038	301.1259
<u>entered</u>					

(31)

19 July Kadın Survey by Herr Professor Doctor Director Meier (40)
 comments: partly sunny, somewhat waves, notes SCL

Loc	time	he	re	hi	vi
gc	2038	0.0054	98.8653	200.0090	301.1289
down ice	2041	64.0405	101.5368	264.0402	295.4628
two	2043	34.6924	105.0091	234.6932	294.9883
three	2046	10.0528	105.7980	210.0517	294.1984
four	2049	372.3928	103.0428	172.3960	296.9557
up ice	2052	362.1858	101.7968	162.1876	298.2012
g.c.	2056	0.0058	98.8742	200.0095	301.1266

entered

(74)

19 July - Dan - few high clouds - no wind -
 not too bad! No excuse for bad readings!
 Except some heat waves

gc	2042	0.0050	98.8710	200.0052	301.1308
down ice	2045	64.0414	104.5392	264.0419	295.66
comment - heat waves					
two	2047	34.7067	105.0090	234.7068	294.9917
three	2050	10.0665	105.7938	210.0691	294.2062
four	2052	372.4059	103.0415	172.4074	296.9624
up ice	2054	362.1861	101.7955	162.1848	298.2096
g.c.	2057	0.0056	98.8682	200.0056	301.1291

entered

(54)

20 July survey by SCL ~~on~~^{at} calm mostly clear (41)
 dim but waxing down 13 ft ~~down~~ ~~down~~

loc	time	he	ve	hi	vi
gc	0423	0.0050	98.8701	200.0056	301.1268
downrise	0429	64.0500	104.5337	264.0478	295.4670
two	0433	34.7452	105.0138	234.7438	294.9867
three	0437	10.1145	105.8088	210.1146	294.1940
four	0443	372.4386	103.0434	172.4390	296.9560
uprise	0447	362.1901	101.7961	162.1884	298.2074
gc	0452	0.0066	98.8726	200.0052	301.1274

[entered into grid]

(56)

20 July survey by SCL ~~gentle~~ N breeze, mostly clear
 but clouds over sun ~~in~~, good viewing

gc	0636	0.0050	98.8699	200.0058	301.1292
downrise	0641	64.0558	104.5308	264.0550	295.4708
2	0645	34.7644	105.0129	234.7628	294.9884
3	0651	10.1344	105.8063	210.1353	294.1948
4	0654	372.4568	103.0438	172.4559	296.9544
uprise	0658	362.1920	298.2044	162.1916	161.7990
gc	0701	0.0074	98.8728	200.0066	301.1276

[entered into grid]

(60)

20 July 87 Kaelin survey by Scott, Notes by Dan
 clear, N breeze, parasol used, heat waves (42)

loc	time	he	ve	hi	vi
gc	0848	0.0050	98.8748	200.0075	301.01272
downice	859	64.0594	104.5290	264.0588	295.4652
2	857	34.7811	105.0110	234.7808	294.9842
3	859	10.1567	105.8041	210.1555	294.1905
4	901	372.4710	103.0494	172.4719	296.9492
upice	903	362.1920	101.7944	162.1948	298.2020
gc	906	0.0078	98.8687	200.0076	301.01280

[entered into grid]

(10)

20 July 87 Kaelin survey by Mfmu, notes from
 partly high thin clouds over sun, breezy, moderate heat waves

loc	time	HE	VE	HI	VI
gc	10:49	0.0049	98.8698	200.0063	301.1287
downice	10:52	64.0596	104.5397	264.0591	295.4611
two	10:54	34.7920	105.0126	234.7918	294.9840
three	10:57	10.1682	105.8113	210.1680	294.1908
four	10:59	372.4812	103.0498	172.4827	296.9504
upice	11:02	362.1945	101.7982	162.1962	298.2012
gc	11:05	0.0074	98.8704	200.0090	301.1291

[entered into grid]

(69)

(43)

20 JULY 87 SURVEY BY MARK, NOTES BY DAN

COMMENTS: CALM, HIGH CLOUDS, GOOD VISIBILITY

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
GC	1258	0.0050	98.8706	200.0063	301.1278
DOWN ICE	1302	64.0620	104.5380	264.0620	295.4608
2	1305	34.8074	105.0127	234.8077	294.9867
3	1307	10.1855	105.8098	210.1877	294.1925
4	1311	372.4930	103.0538	172.4959	296.9456
UP ICE	1313	362.1946	101.8017	162.1952	298.1998
G.C.	1317	0.0058	98.8718	200.0086	301.1280
entered				(63)	

20 July - Survey by Dan. Overcast, bright, warm, light wind; heat waves

		H _e	V _e	H _i	V _i
-2					
GC	1501	0.0050	98.8676	200.0045	301.1295
downice	1503	64.0624	104.5336	264.0652	295.4637
2	1505	34.8213	105.0128	234.8196	294.9848
3	1507	10.2007	105.8085	210.1991	294.1912
4	1509	372.5034	103.0476	172.5029	296.9488
upice	1511	362.1925	101.7991	162.1911	298.1974
GC	1512	0.0034	98.8670	200.0035	301.1303
entered				(64)	

(44)

20 July - Survey by Bill: Overcast, no wind, black flies. Viewing conditions very good.

	loc	time	he	ve	hi	vi
	GC	1707	0.0100	98.8682	200.0107	301.1296
	downice	1710	64.0725	104.5410	264.0722	295.4612
	2	1712	34.8414	105.0145	234.8443	294.9856
	3	1716	10.2268	105.8105	210.2282	294.1904
	4	1719	372.5232	103.0494	172.5245	296.9494
	upice	1721	362.2020	101.8005	162.2018	298.2000
	GC	1724	0.0100	98.8685	200.0102	301.1310

entered into grid

20 July Survey by Mark, notes by Dean

Comments: overcast, some wind & theodolite jitter, some heat waves

LOC.	TIME.	H.E.	V.E.	H.I.	V.I.
GC.	1924	0.0062	98.8682	200.0079	301.1275
DOWN ICE	1927	64.0690	104.5364	264.0706	295.4621
2	1931	34.8536	105.0145	234.8542	294.9846
3	1933	10.2398	105.8114	210.2417	294.1838
4	1937	372.5358	103.0520	172.5354	296.9459
up ICE	1939	362.2005	101.8032	162.2016	298.1952
G.C.	1943	0.0065	98.8716	200.0072	301.1276

entered into grid

20 July 87 Kadin survey mfm (45)
partly cloudy, setting sun, ~~breeze~~, good view, dim micromete

loc	time	HE	VE	HI	VI
gc	2156	0.0046	98.8700	200.6058	301.1282
downice	2140	64.0728	104.5355	264.0760	295.4717
two	2143	34.8686	105.0155	234.8696	294.9826
three	2145	10.2599	105.8132	210.2600	294.1845
four	2149	372.5478	103.0516	172.5496	296.9440
upice	2151	362.1998	101.8030	162.2018	298.1956
gc	2153	0.0056	98.8694	200.0060	301.1276

entered

21 July 87 Survey by Dan, notes by Dan
comments: breezy, cool, clear, good visibility

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	425	0.0050	98.8688	200.0051	301.1298
DOWN ICE	430	64.0827	104.5368	264.0827	295.4610
2	432	34.9159	105.0165	234.9173	294.9817
3	436	10.3176	105.8125	210.3177	294.1840
4	439	372.5912	103.0546	172.5928	296.9941
UP ICE	443	362.2049	101.8032	162.2050	298.1964
G.C.	446	0.0052	98.8705	200.0045	301.1288

ENTERED INTO GRID

(46)

21 July 87 Survey by Dan

Comments: sunny, slight breeze, some heat waves

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	621	0.0050	98.8698	200.0055	301.1289
DOWN ICE	624	64.0852	104.5373	264.0848	295.4637
2	627	34.9331	105.0191	234.9339	294.9858
3	630	10.3380	105.8166	210.3371	294.1824
4	632	372.6046	103.0531	172.6051	296.9450
UP ICE	636	362.2112	101.8038	162.2124	298.1974
G.C.	640	0.0082	98.8681	200.0094	301.1284

COMMENT: THEO SLOWLY DRIFTING OFF LEVEL
parasol not used**[ENTERED]**21 July 87 survey by Dan notes by Scott
Calm, sunny, parasol used, heat waves

gc	817	0.0050	98.8705	200.0044	301.1283
downice	819	64.0872	104.5362	264.0865	295.4608
2	821	34.9425	105.0182	234.9436	294.9806
3	824	10.3510	105.8158	210.3493	294.1823
4	826	372.6137	103.0524	172.6157	296.9452
upice	0827	362.2060	101.8035	162.2075	298.1953
gc	0829	0.0050	98.8688	200.0044	301.1299

[entered]

21 July 87 Survey by MFM notes by SEL (47)

Comments: sunny, calm, parasol used, heat waves

	time	he	ve	hi	vi
gc	1016	0.0050	98.8702	200.0062	301.1294
downice	1018	64.0912	104.5342	264.0922	295.4626
2	1021	34.9566	105.0214	234.9557	294.9792
3	1024	10.3606	105.8210	210.3610	294.1775
4	1026	372.6243	103.0542	172.6248	296.9411
upice	1028	362.2044	101.8013	162.2045	298.1952
gc	1030	0.0015	98.8695	200.0010	301.1272

(entered into grid)

21 July 87 Bill - bright, sunny, warm (the weather, that is). No wind. brotjie used. Heatwaves

GC	1236	0.0100	98.8702	200.0107	301.1284
downice	1239	64.0962	104.5362	264.0989	295.4594
2	1241	34.9770	105.0178	234.9766	294.9780
3	1244	10.3868	105.8228	210.3922	294.1758
comment	-	bad heat waves			
4	1247	372.6482	103.0564	172.6498	296.9422
upice	1249	362.2147	101.8043	162.2148	298.1953
GC	1252	0.0089	98.8664	200.0094	301.1302

(entered)

(48)

21 JULY 87 SURVEY BY MARK, NOTES BY DAN

COMMENTS: SUNNY, NO WIND, PARASOL USED, HEAT WAVES

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1456	0.0050	98.8691	200.0071	301.1272
DOWN ICE	1500	64.0900	104.5344	264.1007	295.4630
2	1503	34.9921	105.0200	234.9922	294.9767
3	1505	10.4020	105.8223	210.4043	294.1744
4	1509	372.6569	103.0578	172.6571	296.9396
UP ICE	1512	362.2112	101.8042	162.2124	298.1920
G.C.	1515	0.0048	98.8699	200.0058	301.1267

entered

21 July 87 Survey by Scott, Notes by Dan

HIGH OVERCAST, NO WIND, HEAT WAVES

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1700	0.0050	98.8694	200.0046	301.1252
DOWN ICE	1702	64.1019	104.5306	264.1021	295.4694
2	1706	35.0080	105.0221	235.0089	294.9774
3	1708	10.4246	105.8215	210.4230	294.1726
4	1711	372.6721	103.0584	172.6726	296.9400
UP ICE	1714	362.2135	101.8040	162.2131	298.1940
G.C.	1717	0.0052	98.8685	200.0046	301.1264

ENTERED

21 July 87 Kadon survey, Den notes (49)
B.71

1A	overcast, calm, no wind, good visibility				
gc	1855	0.0050	98.8678	200.0054	301.1297
downice	1856	64.1019	104.5382	264.1034	295.4622
two	1858	35.0198	105.0204	235.0218	294.9794
three	1900	10.4380	105.8237	210.4383	294.1747
four	1901	372.6834	103.0580	172.6834	296.9420
upice	1903	362.2151	101.8034	162.2154	298.1958
gc.	1904	0.0052	98.8693	200.0054	301.1277
<u>Entered into grid</u>					

21 July 87 Kadon survey by Scott
light rain, no wind notes by B.71

gc	20:56	0.0050	98.8666	200.0057	301.1286
downice	20:58	64.1092	104.5240	264.1116	295.4714
two	21:00	35.0354	105.0213	235.0368	294.9758
three	21:02	10.4568	105.8253	210.4550	294.1722
4	21:04	372.6974	103.0614	172.6980	296.9350
upice	21:06	362.2145	101.8013	162.2162	298.1926
gc	21:08	0.0052	98.8712	200.0071	301.1259
<u>ENTERED</u>					

(50)

22 JULY 87 SURVEY BY DAN, NOTES BY DAN

COMMENTS: LOW CLOUDS, SLIGHT BREEZE, WARM

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	425	0.0040	98.8670	200.0051	301.1302
DOWN ICE	429	64.1145	104.5356	264.1148	295.4639
2	434	35.0886	105.0239	235.0882	294.9766
3	437	10.5190	105.8250	210.5186	294.1754
4	441	372.7443	103.0604	172.7445	296.9395
UP ICE	444	362.2223	101.8087	162.2212	298.1908
G.C.	447	0.0046	98.8661	200.0059	301.1302

[ENTERED]

22 JULY 87 Survey by Dan, Notes by Dan

COMMENTS: LOW CLOUDS, ~~WIND~~, SLIGHT BREEZE,
GOOD VISIBILITY, COOLED OFF

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	617	0.0050	98.8671	200.0056	301.1305
DOWN ICE	621	64.1177	104.5369	264.1208	295.4618
2	623	35.1026	105.0214	235.1028	294.9775
3	625	10.5362	105.8270	210.5367	294.1709
4	628	372.7568	103.0590	172.7575	296.9392
UP ICE	631	362.2228	101.8011	162.2232	298.1946
G.C.	634	0.0053	98.8668	200.0049	301.1309

[Entered]

Kadin Survey

(51)

22 July

good viewing
Scott. Light mist, overcast + fog, no wind

loc	time	HE	VE	HI	VI
roger	1801	2.0250	102.9066	202.0276	297.0919
downice	1805	64.1366	104.5246	264.1318	295.4696
#2	1811	35.1791	105.0240	235.1794	294.9695
3	1813	10.6266	105.8349	210.6265	294.1598
4	1815	372.8264	103.0680	172.8266	296.9268
upice	1818	362.2268	101.8106	162.2268	298.1872

comment: reflector (?) at lower left corner
 of flag. Roger fogged in / out.
entered into grid

23 July Kadin Scott good viewing
 overcast, light mist, and
 fog lifting

roger	0437	2.0253	102.9089	202.0238	297.0906
downice	0442	64.1507	104.5290	264.1510	295.4685
2	0446	35.2548	105.1313	235.2546	294.8870
3	0450	10.7178	105.8401	210.7158	294.1594
4	0456	372.8934	103.0681	172.8928	296.9274
upice	0501	162.2256	298.1888	202.0281	297.0920
upice	0459	362.2342	101.8076	162.2356	298.1888
roger	0504	2.0272	102.9048	202.0281	297.0920

entered into Grid

23 July Kadin Survey-Scott overcast but clearing
 light breeze, good viewing (52)

loc	time	he	ve	hi	vi
gc	0643	0.0046	98.8702	200.0020	301.1271
downice	0646	64.1545	104.5240	264.1552	295.4712
2	0649	35.2701	105.0330	235.2690	294.9678
3	0652	10.7355	105.8444	210.7356	294.1561
4	0656	372.9105	103.0694	172.9086	296.9264
upice	0658	362.2354	101.8122	162.2372	298.1848
gc	0702	0.0028	98.8720	200.0022	301.1271
entered into grid					

23 July Kadin - Scott - excellent viewing,
 Overcast no wind, bugs

GC	0846	0.0050	98.8708	200.0064	301.1283
downice	0848	264.1588	295.4731	64.1598	104.5264
2	0852	35.2854	105.0336	235.2860	294.9714
3	0854	10.7536	105.8422	210.7518	294.1573
4	0856	372.9247	103.0693	172.9257	296.9298
upice	0859	362.2396	101.8088	162.2387	298.1918
comment heat waves at 4 and upice					
GC	0900	0.0065	98.8714	200.0051	301.1283
entered					

23 July Kadlin Mark

overcast, no wind, bugs, good viewing

loc	time	he	re	hi	vi
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10:56

gc	10:00	0.0050	98.8712	200.0066	301.1274
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downice	10:58	64.1575	104.5344	264.1590	295.4657
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two	11:02	35.3020	105.0279	235.3014	294.9738
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three	11:04	10.7721	105.8430	210.7711	294.1557
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four	11:06	372.9404	103.0731	172.9404	296.9246
------	-------	----------	----------	----------	----------

upice	11:09	362.2412	101.8216	162.2436	298.1756
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gc	11:12	0.0051	98.8716	200.0070	301.1268
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entered

shaka

23 July - Kadlin survey, m fm, overcast, wind, good viewing

loc	time	he	re	hi	vi
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gc	13:05	0.0052	98.8688	200.0080	301.1283
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downice	13:08	64.1607	104.5316	264.1616	295.4669
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two	13:10	35.3162	105.0300	235.3167	294.9690
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three	13:12	10.7889	105.8451	210.7888	294.1552
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four	13:15	372.9530	103.0752	172.9548	296.9235
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upice	13:17	362.2485	101.8232	162.2454	298.1780
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gc	13:20	0.0054	98.8708	200.0067	301.1273
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entered

(54)

7/23/87 Survey by Scott, notes by Dan

COMMENTS: BREEZY, PARTLY CLOUDY, HEAT WAVES

LOC.	TIME	H. E.	V. E.	H. I.	V. I.
G.C.	1526	0.0050	98.8720	200.0038	301.1270
DOWN ICE	1529	64.1684	104.5254	264.1692	295.4758
2	1531	35.3330	105.0342	235.3332	294.9702
3	1534	10.8078	105.8522	210.8087	294.1504
4	1536	372.9669	103.0778	172.9798	296.9253
up ICE	1539	362.2436	101.8174	162.2452	298.1757
G.C.	1541	0.0058	98.8730	200.0090	301.1236

entered into grid

23 July Kadin - William W. D. Sunny,
 breeze, some wind jitter

GC	1723	0.0100	98.8696	200.0097	301.1295
downice	1730	64.1747	104.5319	264.1755	295.4681
comment - cannot see flag well					
2	1732	35.3505	105.0340	235.3507	294.9675
3	1733	10.8286	105.8466	210.8282	294.1513
4	1735	372.9829	103.0746	172.9842	296.9261
upice	1737	362.2476	101.8224	162.2491	298.7768
GC	1739	0.0092	98.8686	200.0090	301.1296

entered

(55)

23 July Kadin survey Dam
slight breeze, good visibility, some heat waves

loc	time	HE	VE	HI	VI
gc	1950	0.0050	98.8662	200.0051	301.1304
downice	1952	64.1732	104.5330	264.1728	295.4664
two	1954	35.3633	105.0284	235.3654	294.9697
three	1955	-	10.8435	105.8474	210.8434
four	1956	372.9940	103.0764	172.9948	296.9242
upice	1958	362.2474	101.8222	162.2496	298.1767
gc	2000	0.0063	98.8690	200.0053	301.1330

sighted to bottom left a flag

ENTERED

23 July Kadin survey by B.I.I.W.D.
Comments slight breeze setting sun

loc	time	he	ve	hi	vi
gc	2157	0.0108	98.8692	200.0117	301.1310
downice	2202	64.1819	104.5340	264.1802	295.4652
two	2204	35.3812	105.0312	235.3830	294.9675
three	2206	10.8653	105.8472	210.8660	294.1507
four	2208	373.0113	103.0765	173.0134	296.9219
upice	2210	362.2546	101.8215	162.2556	298.1764
gc	2212	0.0104	98.8677	200.0118	301.1305

Entered

(56)

24 July - Bill, clear, calm, good viewing

loc	time	HE	VE	HI	VI
gc	0504	0.0100	98.882	200.0108	301.1318
downice	0507	64.1855	104.5318	264.1	<div style="border: 1px solid black; padding: 2px;">gave it to Dan</div>
2					
3					
4					
up					
gc					

24 July 87 Kaden survey. Dan, clear, calm, good viewing

loc	time	HE	VE	HI	VI
gc	0514	0.0111	98.8668	200.0111	301.1290
downice	0516	64.1857	104.5262	264.1864	295.4700
2	0519	35.4299	105.0312	235.4316	294.9676
3	0521	10.9242	105.8488	210.9232	294.1505
4	0523	373.0584	103.0785	173.0587	296.9206
upice	0526	362.2593	101.8246	162.2599	298.1740
gc	0528	0.0113	98.8686	200.0132	301.1323

entered

(57)

24 July Kaden survey. Scott notes by bill

clear, calm, bugs, heat waves, paravol

loc.	time	HE	VE	H1	V1
gc	0710	0.0050	98.8719	200.0074	301.1267
downice	0712	64.1883	104.5243	264.1904	295.4764
2	0714	35.4388	105.0363	235.4385	294.9650
3	0716	10.9356	105.8560	210.9356	294.1454
4	0718	373.0671	103.0797	173.0693	296.9194
upice	0720	362.2516	101.8234	162.2560	298.1770
gc	0722	0.0080	98.8700	200.0066	301.1216
entered					

24 July Kaden survey by Mark notes by SCL

~~sunny, calm, bugs, heat waves, paravol used.~~

gc	09:18	0.0049	98.8684	200.0049	301.1302
downice	09:21	64.1867	104.5324	264.1877	295.4667
2	09:24	35.4532	105.0372	235.4523	294.9638
3	09:27	10.9500	105.8570	210.9508	294.1437
4	09:30	373.0795	103.0791	173.0798	296.9194
upice	09:33	362.2563	101.8206	162.2581	298.1795
gc	09:37	0.0068	98.8722	200.0064	301.1291
entered					

(58)

24 July - Kadin - Dan - Sun, warm, ~~no~~
south breeze, ^{bad} heat waves, umbrella

GC	1135	0.0050	98.8682	200.0052	301.1305
downice	1137	64.1895	104.5324	264.1911	295.4666
2	1139	35.4671	105.0348	235.4681	294.9657
3	1141	10.9673	105.8564	210.9681	294.1448
4	1143	373.0909	103.0819	173.0914	296.9191
upice	1145	362.2575	101.8251	162.2582	298.1754
GC	1148	0.0056	98.8678	200.0052	301.1298

[entered]

24 July Kaden theodolite survey mfm
 sun, hot, no wind, umbrella, bad heat waves

loc	time	NE	VE	HI	VI
gc	1336	0.0050	98.8701	200.0074	301.1275
downice	1340	64.1919	104.5308	264.1904	295.4656
2	1344	35.4800	105.0343	235.4808	294.9602
3	1348	10.9840	105.8593	210.9850	294.1420
4	1350	373.1051	103.0796	173.1049	296.9163
upice	1354	362.2560	101.8254	162.2572	298.1732
gc	1356	0.0038	98.8706	200.0061	301.1274

flag 2 is listing farther

[entered]

24

July Kaden survey bill

warm hazy sun, bad heat waves, almost calm
(slight SE breeze)

loc	time	WE	VE	HI	VI
gc	1536	0.0100	98.8672	200.0107	301.1307
downice	1540	64.2024	104.5310	264.2034	295.4664
2	1543	35.4990	105.0379	235.5015	294.9608
3	1546	11.0057	105.8574	211.0064	294.1406
4	1548	373.1216	103.0805	173.1231	296.9184
upice	1550	362.2626	101.8241	162.2646	298.1728
gc	1553	0.0092	98.8702	200.0102	301.1282

entered

24 July - Scott - cold wind off glacier. Some
wind joggle, heat waves

-2

GC	1736	0.0049	98.8701	200.0058	301.1289
downice	1739	64.2054	104.5216	264.2049	295.4809
2	1741	35.5088	105.0349	235.5107	294.9594
3	1744	11.0198	105.8587	211.0192	294.1400
4	1746	373.1300	103.0799	173.1312	296.9175
upice	1748	362.2612	101.8148	162.2622	298.1775
GC	1751	0.0056	98.8698	200.0058	301.1288

entered

(60)

24 July - Scott - light overcast, light N wind,
good viewing, some heat waves

GC	1936	0.0050	98.8715			
GC	1939	0.0050	98.8730	200.0051	301.1281	
downice	1942	64.2080	104.5260	264.2077	295.4761	
2	1944	35.5238	105.0401	235.5268	294.9599	
3	1946	11.0352	105.8616	211.0342	294.1354	
4	1948	373.1453	103.0850	173.1438	296.9157	
upice	1950	362.2626	101.8246	162.2651	298.1733	
GC	1953	0.0040	98.8731	200.0059	301.1265	

ENTERED

24 JULY 87 SURVEY BY MARK, NOTES BY DAN

COMMENTS: GOOD VISIBILITY, HIGH CLOUDS, SLIGHT BREEZE

GC	2129	0.0050	98.8705	200.0066	301.1276	
downice	2133	64.2048	104.5278	264.2032	295.4710	
2	2136	35.5373	105.0385	235.5363	294.9604	
3	2140	11.0498	105.8623	211.0500	294.1381	
4	2142	373.1567	103.0842	173.1565	296.9138	
upice	2143	362.2638	101.8222	162.2650	298.1756	
G.C.	2145	0.0049	98.8693	200.0060	301.1276	

ENTERED

(61)

25 July Kachin survey by Scott notes by B.V.H.
high overcast, no wind, mosquitoes, good viewing

gc	0518	0.0050	98.8721	200.0062	301.1246
downice	0521	64.2176	104.5248	264.2202	295.4728
two	0522	35.5894	105.0402	235.5892	294.9556
three	0526	11.1116	105.8657	211.1136	294.1338
four	0529	373.2037	103.0867	173.2071	296.9094
upice	0531	362.2668	101.8266	162.2706	298.1770
gc	0534	0.0060	98.8751	200.0102	301.1258

[entered into grid]

25 July	Kachin survey, Scott high clouds strong wind, jitter, + mosquitoes				
gc	0727	0.0050	98.8736	200.0060	301.1252
downice	0730	64.2236	104.5257	264.2232	295.7956
2	0733	35.6052	105.0404	235.6040	294.9551
3	0735	11.1325	105.8700	211.1323	294.1200
4	0738	373.2193	103.0901	173.2186	296.9082
upice	0741	362.2686	101.8273	162.2722	298.1716
gc	0744	0.0072	98.8684	200.0086	301.1245

[entered into grid]

* There were 2 (no morning surveys due to high wind) (62)
at 5 & 7 AM

25 July Kedua survey. Mark Meier

~~but in wind~~, sunny, wind shake, head waves

loc	time	HE	VE	HI	VI
gc	1211	0.0050	98.8659	200.0048	301.1290
downice	1213	64.2230	104.5310	264.2253	295.4692
two	1216	35.6328	105.0427	235.6353	294.9549
three	1219	11.1682	105.8710	211.1692	294.1324
four	1221	373.2470	103.0904	173.2483	296.9089
upice	1224	362.2728	101.8278	162.2736	298.1698
gc	1226	0.0030	98.8706	200.0043	301.1306

entered

→ ~~boat~~ looks like #3 needs repairing. Listing badly.

25 July 87 Survey by Scott, windy, sunny,
bad heat waves

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
gc	1630	0.0050	98.8666	200.0050	301.1322
downice	1631	64.2377	104.5242	264.2390	295.4730
2	1634	35.6662	105.0471	235.6646	294.9518
3*	1637	11.1831	105.9069	211.1840	294.0874
4	1639	373.2748	103.0940	173.2775	296.9026
upice	1641	362.2774	101.8274	162.2768	298.1704
G.C.	1643	0.0054	98.8694	200.0074	301.1281

entered

* Flag needs attention - falling over

25 July 87 Kadın survey MFM

(163)

comment: light breeze, bad waves, some gusts

gc flag has been shredded today (piece lying down slope)

gc	20 28	0.0050	98,8692	200.0068	301.1273
downice	20 32	64.2350	104.5268	264.2376	295.4693
two	20 36	35.6938	105.0440	235.6928	294.9523
three	20 40	11.2079	105.9170	211.2073	294.0825
four	20 43	373.3018	103.0940	173.3032	296.9022
wipe	20 46	362.2782	101.8316	162.2786	298.1707
gc	20 50	0.0054	98.8703	200.0074	301.1297

entered

other than new Height Instrument:

26 July 87 Kadın survey by Scott H

Clear, N wind finally calm enough to survey (1st wave)
Clear heat waves

gc	20 37	0.0032	98.8706	200.0020	301.1283
downice	20 40	64.2670	104.5340	264.2540	295.7821
gusts - 120	20 44	35.8728	105.0513	235.8661	294.9496
3		784	gone with the wind		
4	20 48	373.4626	103.1124	173.4658	296.8965
wipe	20 51	362.2932	101.8360	162.2942	298.1646
gc	20 52	0.0032	98.8740	200.0045	301.1281

(64)

26 July 87 Survey by Dan Stone, Rmk on notes

Begin at 20:12 AST, wind gusting to 20 mph

Roger	000.0050	102.8950	200.0057	297.0965	breezy Bad heat waves
DownIce	62.2474	104.5311	262.42491	295.4673	guessy

(Called because of wind).

27 July 87 EDM survey of NEW 3: (bill)

9:59	2785.616
10:00	2785.615
10:03	2785.611
10:08	2785.600
10:09	2785.607

Angles to NEW 3

comment: very windy so angles are rough
 could not see GC due to small flag
 and wind shake

roger	2.0	{ horizontal erect
new 3	9.3	}

No vertical or inverted angles.

27 July 87 notes by Bill clear, N breeze S. (165)
 Kadn survey by Scott gusts, heat waves

loc	time	he	ve	hi	vi
gc	1149	0.0050	78.8696	200.0064	301.1212
downice	1151	64.2988	104.5141	264.2990	295.4760
2	1153	35.9866	105.0562	235.9869	294.9489
NEW 3	1156	9.3829	104.8419	209.3818	295.1690
4	1159	373.5758	103.1076	173.5750	296.8955
upice	1201	362.3108	101.8335	162.3118	298.1812
gc	1203	0.0094	98.8666	200.0114	301.1376
$\bar{gc} = .0081$		<u>ENTERED</u>			

27 July 87

Kadn survey by Scott clear NE breeze
 notes by Dan gusty, some parasol

gc	1446	0.0050	98.8730	200.0072	301.1257
downice	1449	64.2988	104.5175	264.3008	295.4841
2	1455	36.0076	105.0569	236.0042	294.9429
New 3	1457	9.4020	104.8500	209.4039	295.1596
4	1459	373.5900	103.1140	173.5896	296.8888
upice	1501	362.3098	101.8378	162.3108	298.1619
gc	1503	0.0042	98.8713	200.0063	301.1272
$\bar{gc} = .0057$		<u>entered into grid</u>			

27 July 87

Kadin survey by Scott

clear, breezy, some heat waves (46)

loc	time	h.e.	v.e.	h.i.	v.i.
g.c.	1633	0.0050	98.8758	200.0059	301.1254
downice	1638	64.2960	104.5282	264.3009	295.4796
2	1642	36.0132	105.0594	236.0170	294.9464
new 3	1643	9.4078	104.8356	209.4114	295.1583
4	1646	373.5975	103.1137	173.6000	296.8856
upice	1648	362.3087	101.8420	162.3066	298.1632
g.c.	1651	0.0064	98.8704	200.0028	301.1318

entered into grid

27 July 87 Survey by Dan

CLEAR, CALM, SUNNY, SOME HEAT WAVES, GOOD VISIBILITY

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
G.C.	1837	0.0050	98.8689	200.0052	301.1296
DOWN * ICE	1840	64.2992	104.5312	264.3005	295.4746
2	1844	36.0325	105.0552	236.0338	294.9454
NEW 3	1846	9.4267	104.8371	209.4296	295.1592
4	1848	373.6084	103.1127	173.6095	296.8848
UP ICE	1851	362.3093	101.8372	162.3088	298.1596
G.C.	1856	0.0014	98.8694	200.0007	301.1276

* COMMENT: COULDN'T SEE REFLECTORS, AIMED ON

LOWER LEFT CORNER OF FLAG

1 COMMENT: DRIFTED OFF LEVEL DURING SURVEY

entered

27 July 87 Kadın survey by RM Krimmel (67)
clear, calm, heat waves

		he	ve	hi	vi
gc	2125	0.0002	98.8672	200.0098	301.1294
downrise	2126	64.3183	104.5147	264.3191	295.4830
comment	RWIC reading	center top of flag at house			
2	2128	36.0562	105.0538	236.0564	294.9430
new 3	2129	9.4542	104.8355	209.4542	295.1614
4	2131	373.6373	103.1113	173.6376	296.8853
uprise	2132	362.3188	101.8359	162.3192	298.1621
gc	2134	0.0081	98.8667	200.0107	301.1302
[entered] not checked					

28 July Kadın survey by SCL

clear, calm, bugs, pre sunrise, good viewing

gc	0526	0.0049	98.8709	200.0058	301.1266
downrise	0529	64.3189	104.5168	264.3184	295.4816
2	0532	36.1042	105.0616	236.1068	294.9417
new 3	0535	9.5092	104.8422	209.5074	295.1582
4	0537	373.6848	103.1155	173.6824	296.8808
uprise	0540	362.3220	101.8374	162.3208	298.1636
gc	0543	0.0078	98.8766	200.0024	301.1288
[entered into grid]					

(68)

28 July Kadem survey Scott

sunny, warm, bugs, umbrella, calm, heat waves

loc time HE VE HI VI

gc 0732 0.0050 98.8726 200.0072 301.1270

downice 0734 64.3144 104.5204 264.3182 295.4761

two 0734 36.1154 105.0606 236.1155 294.9360

new3 0737 9.5176 104.8450 209.5172 295.1552

four 0739 373.6922 103.1205 173.6925 296.8802

upice 0741 362.3168 101.8405 162.3152 298.1652

gc 0742 0.0037 98.8711 200.0022 301.1270

[entered]28 July 87 Kadın survey by RMK sunny, light breeze
clear, calm, ^{umbrella}, ~~parasol~~, bugs

gc 0952 000.0112 98.8703 200.0118 301.1280

downice 0954 64.3300 104.5218 264.3290 295.4788

comment RMK ^{station} top left of flag downice

two 0956 36.1400 105.0619 236.1396 294.9385

new3 0958 9.5391 104.8402 209.5426 295.1569

four 0959 373.7155 103.1181 173.7158 296.8801

upice 1001 362.3279 101.8402 162.3296 298.1585

gc 1002 000.0119 98.8688 200.0127 301.1283

[entered]

28 July Kadin survey by Dan

(69)

sunny, calm, bugs, umbrella, heatwaves

loc	time	he	ve	hi	vi
gc	1157	0.0050	98.8689	200.0067	301.1283
down ice	1200	64.3258	104.5300	264.3287	295.4689
two	1201	36.1490	105.0625	236.1509	294.9360
new 3	1203	9.5550	104.8404	209.5544	295.1587
four	1205	373.7239	103.1222	173.7260	296.8792
up ice	1206	362.3269	101.8434	162.3276	298.1544
gc	1208	0.0062	98.8688	200.0075	301.1287
(entered)					

28 July 87 survey by Scott, notes by Dan

SUNNY, CALM, BAD HEAT WAVES, UMBRELLA USED

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
G.C.	1353	0.0050	98.8691	200.0020	301.1264
DOWN ICE	1355	64.3255	104.5217	264.3264	295.4793
2	1357	36.1532	105.0674	236.1560	299.9312
NEW 3	1359	9.5592	104.8474	209.5561	295.1501
4	1400	373.7330	103.1267	173.7303	296.8716
UP ICE	1401	362.3210	101.8385	162.3230	298.1568
G.C.	1403	0.0016	98.8756	199.9988	301.1252

ENTERED

(70)

28 July 87 Survey by Dam, notes by Runk

Hot, very light breeze, umbrella, heat waves, bugs

	Time	HE	VE	HI	VI
GC	16 11	080.0050	98.8681	200.0065	301.1284
DownIce	16 13	64.3297	104.5297	264.3316	295.4712
2	16 14	36.1719	105.0631	236.1746	294.9369
New 3	16 16	9.5785	104.8390	209.5784	295.1568
4	16 17	373.7480	103.1243	173.7488	296.8748
Upice	16 19	362.3274	101.8424	162.3264	298.1571
GC	16 20	0.0057	98.8678	200.0080	301.1292

ENTERED

28 July 87 81

Scatt, calm, hot, bugs, umbrella

	Time	HE	VE	HI	VI
GC	18 06	00.0050	98.8726	200.0066	301.1254
DownIce	18 07	64.3366	104.5184	264.3340	295.4764
two	18 09	36.1861	105.0656	236.1848	294.9295
New 3	18 11	9.5904	104.8452	209.5887	295.1534
four	18 13	373.7599	103.1366	173.7482	296.8731
upice	18 14	362.3173	101.8390	162.3186	298.1606
GC	18 16	399.9960	98.8680	199.9950	301.1252

Entered

(71)

28 July Kaden survey. Swift
 comment: cool breeze, partly overcast, fog bank
 on upper glacier, good viewing

				NE	VE	HI	VI
ge	2019	0.0061	98.8698	200.0086	301.1264		
upice	2021	362.3294	101.8386	162.3313	298.1548		
4	2023	373.7744	103.1244	173.7739	296.8914		
new3	2025	9.6046	104.8426	209.6058	295.1546		
2	2026	36.1990	105.0652	236.1971	294.9338		
downice	2028	64.3419	104.5205	264.3348	295.4764		
ge	2030	0.0070	98.8708	200.0081	301.1262		

(entered into grid)

29 July Kaden survey. R. II

comment: calm, overcast, ge obscured, good visibility

Roger	0629	2.0200	102.9067	202.0208	297.0938	
downice	0632	64.3332	104.5244	264.3352	295.4730	
2	0635	36.2478	105.0656	236.2472	294.9330	
new3	0638	9.6568	104.8417	209.6569	295.1568	
4	0641	373.8210	103.1280	173.8215	296.8690	
upice	0644	362.3256	101.8456	162.3256	298.1560	
Roger	0648	2.0188	102.9028	202.0196	297.0928	

(entered) BUT NOT PROOFREAD

~~29 July, Kadin Scott~~

Windy, cold, overcast
72
good viewing

	loc	time	he	ve	hi	vi
	gc	0833	0.0050	98.8701	200.0060	301.1241
	downice	0836	64.3512	104.5276	264.3535	295.4734
	2	0839	36.2710	105.0766	236.2728	294.9261
	new3	0843	9.6820	104.8476	209.6804	295.1546
	4	0843 *	373.8454	103.1308	173.8447	296.8672
	upice	0845	362.3400	101.8445	162.3393	298.1514
	gc	0846	0.0077	98.8688	200.0079	301.1276

* different watch used

Entered words checking

~~29 July - Scott, North breeze, overcast, good viewing~~

	loc	time	HE	VE	HI	VI
	gc	1055	0.0050	98.8700	200.0065	301.1262
	downice	1057	64.3537	104.5199	264.3526	295.4801
	2	1058	36.2828	105.0718	236.2855	294.9250
	new3	1059	9.6945	104.8487	209.6914	295.1562
	4	1100	373.8552	103.1338	173.8573	296.8634
	upice	1102	362.3384	101.8420	162.3390	298.1508
	gc	1103	0.0058	98.8684	200.0052	301.1275

entered

29 July Kadum survey Bill
 overcast but bright, slight breeze, good views
 (73)

location	time	HE	VE	HI	VI
gc	1249	0.0100	98.8690	200.0107	301.1294
downrise	1253	64.3569	104.5310	264.3576	295.4714
2	1256	36.3008	105.0704	236.3004	294.9300
mew3	1258	9.7094	104.8439	209.7104	295.1552
4	1301	373.8696	103.1322	173.8708	296.8638
upice	1303	362.3436	101.8463	162.3446	298.1548
gc	1306	0.0100	98.8704	200.0098	301.1304

Entered ~~But NOT PROOFREAD~~

29 July Kadum survey Scott

overcast, windy,

loc	time	HE	VE	HI	VI
gc	1454	0.0050	98.8670	200.0024	301.1246
downrise	1456	64.3545	104.5186	264.3569	295.4868
2	1457	36.3042	105.0750	236.3025	294.9249
mew3	1459	9.7143	104.8482	209.7160	295.1506
4	1501	373.8784	103.1355	173.8746	296.8610
upice	1503	362.3408	101.85 ⁸⁴⁹⁰	162.3377	298.1562
gc	1504	0.0037	98.8720	200.0046	301.1298

Entered

29 July Kadin survey Pg. 11

(74)

breeze, overcast, good viewing

loc	time	HE	VE	HI	VI
gc	1701	0.1100	98.8676	200.1088	301.1316
downice	1705	64.4592	104.5270	264.4594	295.4700
2	1707	36.4228	105.0697	236.4212	294.9291
new3	1710	9.8329	104.8438	209.8329	295.1532
four	1712	373.9903	103.1364	173.9908	296.8621
upice	1713	362.4443	101.8482	162.4439	298.1518
gc	1716	0.1089	98.8655	200.1083	301.1314

entered into Mr Grid

29 July 87 Kadin Dani light breeze, overcast, good seeing

loc	time	HE	VE	HI	VI
gc	1910	000.0050	98.8704	200.0056	301.1286
downice	1912	64.3600	104.5252	264.3627	295.4727
two	1913	36.3303	105.0745	236.3313	294.9273
new3	1915	9.7425	104.8454	209.7425	295.1546
four	1916	373.9001	103.1394	173.9018	296.8612
upice	1917	362.3434	101.8495	162.3434	298.1499
gc	1919	000.0058	98.8688	200.0064	301.1303

ENTERED

29 July Kaden survey Scott

(75)

overcast, calm, good visibility, bugs

loc	time	HE	VE	HI	VI
gc	2057	0.0050	98.8730	200.0073	301.1244
down ice	2100	64.3626	104.5198	264.3646	295.4806
2	2101	36.3439	105.0764	236.3426	294.9250
new 3	2103	9.7546	104.8457	209.7542	295.1532
4	2105	373.9145	103.1401	173.9128	296.8608
up ice	2106	362.3465	101.8446	162.3464	298.1524
gc	2108	0.0082	98.8713	200.0081	301.1285

entered

30 JULY 81 SURVEY BY SCOTT

COMMENTS: RAIN, FOG, LOW CLOUDS, NO WIND

LOC.	TIME	HE	VE	HI	VI
ROGER	1054	2.0250	102.9085	202.0260	297.0918
DOWN ICE	1056	64.3706	104.5154	264.3716	295.4814
2	1058	36.4088	105.0722	236.4104	294.9216
NEW 3	1059	9.8272	104.0490	209.8273	295.1474
4	1100	373.9804	103.1448	173.9775	296.8474
UP ICE	1102	362.3440	101.8452	162.3455	298.1484
ROGER	1103	2.0247	102.9047	202.0242	297.0885

entered

(76)

Aug 1 87 Kadin Survey RmK overcast, light rain,
calm, bugs, misty views

GC	0715	000.0098	98.8705	200.0114	301.1293
DI	0720	64.4288	104.5130	264.4299	295.4853
2	0723	36. 375 ⁶⁷⁴⁶	105.0822	236. 6759 ⁶⁷⁵⁹	294.9167
N3	0728	10.1116	104. ⁴ 865	210.1107	295.1519
4	0730	374.2433	103.1584	174.2462	296.8393
VI	0733	362.3870	101.8549	162.3880	298.1420
GC	0735	000.0109	98.8681	200.0117	301.1285

Entered

The H. I = 1.52 m above Kadin Ground

EDM Down Ice 244.7500 114.2900 dist = 2.94 m

EDM Up Ice 223.1000 116.6000 dist = 2.83 m
(opt. center to opt. center)

1 August 87 Survey by Dan

Low clouds, fog, Light breeze, drizzle

ROGER	1420	2.0100	102.9068	202.0105	297.0936
DOWN ICE	1423	64.4105	104.5231	264.4132	295.4788
2	1426	36.6864	105.0875	236.6868	294.9152
NEW 3	1428	10.1263	104.8498	210.1266	295.1528
4	1430	374.2582	103.1633	174.2582	296.8374
up ICE	1433	FOGGED	OUT		
ROGER	1435	2.0099	102.9056	202.0099	297.0958

ENTERED

(77)

Aug 1; Dan; overcast, light breeze

gc 1626

00.0050 98.8690 200.0062 301.1302

upice 1627

362.3868

108.6668

162.3870

298.1349

- comment) - upice ~~sight~~ to new target height; .25m lower

four 1629

374.2867

103.1666

174.2878

296.8333

new3 1633

10.1584

104.8487

210.1568

295.1500

two 1635

36.7202

105.0857

236.7212

294.9142

downice 1637

64.4320

104.5231

264.4331

295.4774

comment - downice to new Target height; .9m lower

gc 1639

000.0042

98.8675

200.0052

301.1294

Rogers 1641

002.0299

102.9050

202.0307

299.0942

Entered

Aug 1; Dan; overcast, light wind, good view; below four

gc 1828

00.0050

98.8695

200.0059

301.1299

four 1830

374.2991

103.1664

174.2995

296.8331

New3 1831

10.1702

104.8488

210.1704

295.1506

two 1833

36.7323

105.0874

236.7313

294.9132

downice 1835

64.4369

104.5198

264.4368

295.4782

gc 1837

00.0052

98.8699

200.0058

301.1294

upice fogged out

ENTERED

(78)

Aug 1: RmK; Windy, overcast, good visibility

GC 2020

	000.0098	98.8673	200.0109	301.1312	
di.	2023	64.4414	104.5239	264.4417	295.4746
New 3 two	2026	367466	105.0874	236.7466	294.9121
New 3 two	2030	10.1871	104.8482	210.1867	295.1517
Four	2034	374.3181	103.1651	174.3171	296.8320
u.i.	2037	362.3942	101.8700	162.3946	298.1291
GC	2040	000.0104	98.8658	200.0124	301.1313

Entered

Aug 1: RmK

GC

2210	0.0110	98.8668	200.0119	301.1292
di.	2213	64.4458	104.5217	264.4456
two	2217	367578	105.0874	236.7591
New 3	2219	10.1988	104.8466	210.2006
Four	2222	374.3274	103.1654	174.3283
u.i.	2224	362.3966	101.8657	162.3969
GC	2227	0.0112	98.8667	200.0121

ENTERED

Aug 2 ~~RmK~~; wind, overcast, cold

Player 050
 002.3109
 000 102.9023 203.9100 297.0920

-38.0698 105.0856

GC	525	000.0084	98.8672	200.0094	301.1290
di.	529	64.4507	104.5165	264.4491	295.4826
two	532	367940	105.0858	236.7931	294.9117
New 3	534	10.2368	104.8454	210.9392	295.1529
Four	536	374.3662	103.1673	174.3665	296.8312
u.i.	538	362.3980	101.8682	162.3976	298.1312
GC	539	000.0086	98.8664	200.0101	301.1304

ENTERED

2 August 87 Survey by Dan
windy, clouds breaking

(79)

<u>LOC.</u>	<u>TIME</u>	<u>H.E.</u>	<u>V.E.</u>	<u>H.I.</u>	<u>V.I.</u>
ROGER	724	2.0100	102.9066	202.0102	297.0936
DOWN ICE	727	64.4272	104.5227	264.4294	295.4793
2	729	36.7810	105.0929	236.7830	294.9100
NEW 3	731	10.2246	104.8505	210.2251	295.1506
1 UP ICE *	733	374.3505	103.1734	174.3506	296.8270
	736	362.3754	101.8728	162.3771	298.1266
ROGER	739	2.0106	102.9036	202.0098	297.0934

* AIMED ON REFLECTORS, FLAG HAS FALLEN

ENTERED

Aug 2 RmK; weak sun, good viewing

Roger	0921	002.0104	102.9064	202.0135	297.0937
d.i.	924	64.4315	104.5247	264.4323	295.4789
2	927	36.7926	105.0914	236.7936	294.9081
n 3	0929	10.2380	104.8514	210. ²³⁹⁸ 43	295.1517
4	0931	374.3636	103.1734	174.3662	296.8696
u.i.	Foggy				
Roger	0934	002.0114	102.9079	202.0120	297.0960

(Entered)

(8)

Aug 2 Dan; breeze, sun, no umbrella, some heat waves

		H.E.	V.E.	H.I.	V.I.
GC	1237	00.0050	98.8682	200.0052	301.1340
d.i.	1238	64.4545	104.5229	264.4559	295.4821
2	1240	36.8288	105.0915	236.8302	294.9072
new3	1241	10.2756	104.8514	210.2761	295.1506
Four	1242	374.4004	103.1763	174.4010	296.8246
u.i.	1244	362.3994	101.8720	162.4000	298.1289
GC.	1246	0.0044	98.8696	200.0046	301.1301

[ENTERED]

Aug 2 Dan; heat waves, ~~sun~~, umbrella, bugs

g.c.	1434	00.0050	98.8718	200.0048	301.1315
d.i.	1435	64.4544	104.5224	264.4562	295.4822
2	1437	36.8384	105.0950	236.8404	294.9071
n3	1439	10.2860	104.8562	210.2876	295.1490
4	1441	374.4085	103.1806	174.4097	296.8222
u.i.	1442	362.3990	101.8740	162.3995	298.1272
GC	1444	0.0042	98.8725	200.0046	301.1326

[ENTERED INTO MR. GRID]

Aug 2 Dan;

g.c.	1638	0.0050	98.8718	200.0052	301.1316
d.i.	1640	64.4571	104.5227	264.4574	295.4811
2	1642	36.8523	105.0967	236.8528	294.9077
new3	1644	10.3005	104.8520	210.2995	295.1484
4	1645	374.4252	103.1792	174.4263	296.8221
u.i.	1647	362.4800	101.8714	162.4010	298.1282
g.c.	1650	00.0038	98.8718	200.0052	301.1288

[Entered]

		H.E.	V.E.	H.I.	V.I. (81)
02 Aug	RmK; d. ffuse sun, no umbrella, calm, bugs, good viewing				
GC	1835	0.0100	98.8698	200.0120	301.1304
d.i.	1839	64.4639	104.5250	264.4670	295.4769
2	1841	36.8693	105.0951	236.8698	294.9035
N3	1843	10.3162	104.8502	210.3178	295.1501
4	1845	374.4420	103.1784	174.4410	296.8234
u.i.	1848	362.4773	101.8720	162.4102	298.1282
GC	1852	0.0099	98.8702	200.0112	301.1288

[ENTERED]

2 August Dan, clear, calm, bugs, good viewing

GC.	2036	0.0050	98.8703	200.0055	301.1306
DOWN ICE	2039	64.4620	104.5281	264.4623	295.4742
2	2041	36.8742	105.0970	236.8751	294.9076
NEBN3	2044	10.3252	104.8540	210.3247	295.1491
4	2046	374.4465	103.1813	174.4480	296.8196
UP ICE	2048	362.4054	101.8745	162.4057	298.1269
GC.	2051	0.0060	98.8711	200.0058	301.1306

[ENTERED]

2 Aug RmK, breeze, good seeing

GC	2227	0.0104	98.8684	200.0118	301.1282
d.i.	2229	64.4682	104.5202	264.4718	295.4770
2	2231	36.8913	105.0960	236.8908	294.9042
N3	2234	10.3388	104.8474	210.3394	295.1497
4	2237	374.4609	103.1783	174.4634	296.8216
up.	2239	362.4100	101.8725	162.4121	298.1262
GC	2240	0.0106	98.8692	200.0120	301.1301

[ENTERED]

	THE	H.E.	V.E.	H.I.	V.I. (82)
3 Aug	Rmk; breeze, overcast				
g.c.	0515	0.0095	98.8696	200.0118	301.1296
d.i.	0520	64.4766	104.5210	264.4767	295.4791
2		36.9285	105.0958	236.9299	294.9035
N3	0525	10.3804	104.8504	210.3811	295.1492
4		374.5013	103.1824	174.5015	291.8176
U.I.	0531	362.4152	101.8738	162.4157	298.1255
g.c.	0535	0.0108 [ENTERED]	98.8671	200.0106	301.1319

3 August 87	Dawn, overcast, light breeze, good viewing				
G.C.	0730	0.0050	98.8712	200.0055	301.1301
DOWN ICE	0732	64.4797	104.5288	264.4756	295.4740
2	0735	36.9372	105.0988	236.9377	294.9020
NEW 3	0737	10.3889	104.8526	210.3894	295.1509
4	0740	374.5062	103.1830	174.5078	296.8195
UP ICE	0743	362.4120	101.8714	162.4129	298.1220
G.C.	0746	0.0047	98.8686	200.0053	301.1319

3 Aug:	Rmk, calm, overcast	[ENTERED]			
G.C.	0930	0.0109	98.8692	200.0118	301.1317
d.i.		64.4821	104.5221	264.4826	295.4792
2	0935	36.9527	105.0989	236.9532	294.9020
N3		10.4058	104.8530	210.4065	295.1486
4	0940	374.5245	103.1852	174.5245	296.8155
U.I.		362.4178	101.8742	162.4200	298.1299
g.c.	0945	0.0099	98.8702	200.0112	301.1315
		[ENTERED]			

(83)

3 Aug 87 RmK, breeze, overcast

GG	1133	0.0100	98.8698	200.0100	301.1314
d.i.	1135	64.4819	104.5221	264.4833	295.4796
2		36.9620	105.1004	236.9619	294.9008
N3		10.4156	104.8526	210.4163	295.1493
4	1140	374.5324	103.1875	174.5343	296.8134
u.i.		362.4166	101.8760	162.4170	298.1241
GC	1145	0.0075	98.8688	200.0094	301.1296

Enter

3 Aug 87 RmK, breeze, overcast

GC	1330	0.0100	98.8715	200.0104	301.1313
d.i.		64.4856	104.5216	264.4863	295.4798
2	1335	36.9742	105.1034	236.9753	294.8988
N3		10.4282	104.8543	210.4295	295.1485
4	1340	374.5446	103.1887	174.5463	296.8128
u.i.		362.4195	101.8778	162.4200	298.1234
gc.	1345	0.0095	98.8704	200.0109	301.1296

Enter

3 Aug 87 RmK, overcast, warm, heat waves

GC	1532	0.0100	98.8710	200.0108	301.1303
d.i.	1534	64.4870	104.5225	264.4892	295.4785
2	1535	36.9843	105.1025	236.9854	294.8996
N3	1537	10.4409	104.8538	210.4398	295.1499
4	1540	374.5565	103.1921	174.5568	296.8111
u.i.	1542	362.4204	101.8790	162.4228	298.1231
g.c.	1545	0.0100	98.8705	200.0118	301.1315

ENTERED

LOC.	TIME	H.E.	V.E.	H.I.	V.I. (84)
3 August	Dam, overcast, calm, bugs				
G.C.	1735	0.0050	98.8706	200.0048	301.1297
d.i.	reflectors			264.4842	295.4758
lower left of flag	*	64.4856	104.5231	264.4871	295.4803
* We will always survey lower left of flag falling beginning with this survey					
TWO	1744	36.9930	105.1031	236.9928	294.8985
N 3	1745	10.4469	104.8538	210.4474	295.1490
Four	1747	374.5628	103.1914	174.5632	296.8087
U.I.	1749	362.4176	101.8787	162.4179	298.1222
G.C.	1751	0.0048	98.8708	200.0052	301.1303

ENTERED INTO MR. GRID

3 August 87

Survey by Dan; bugs, calm, overcast

G.C.	1930	0.0050	98.8715	200.0056	301.1282
DOWN ICE	1933	64.4868	104.5219	264.4881	295.4804
Z	1936	37.0014	105.1028	237.0032	294.8977
NEW 3	1939	10.4591	104.8538	210.4588	295.1469
4	1941	374.5755	103.1918	174.5759	296.8081
UP ICE	1943	362.4189	101.8787	162.4197	298.1212
G.C.	1946	0.0061	98.8717	200.0062	301.1288

ENTERED

(85)

3 Aug 87 Rmk; overcast, bugs

GC	2150	0.0100	98.8694	200.0110	301.1297
d.i.	2153	64.4942	104.5215	264.4952	295.4793
2	2155	37.0208	105.1037	237.0224	294.8966
N3	2158	10.4779	104.8518	210.4786	295.1478
4	2200	374.5932	103.1909	174.5928	296.8092
u.i.	2202	362.4254	101.8770	162.4269	298.1226
ge.	2205	0.0103	98.8689	200.0118	301.1300

(Entered)

4 Aug 87 Rmk; overcast, light breeze

GC	508	0.0100	98.8704	200.0112	301.1292
d.i.	510	64.5020	104.5192	264.5046	295.4794
2	515	37.0609	105.1046	237.0612	294.8957
N3	518	10.5220	104.8506	210.5234	295.1490
4	520	374.6337	103.1936	174.6348	296.8072
u.i.	522	362.4306	101.8758	162.4312	298.1234
GC	525	0.0104	98.8680	200.0109	301.1283

Roger

(Entered)

4 August 87 OBS; overcast, no wind.

G.C.	726	0.0050	98.8711	200.0054	301.1297
DOWN ICE	728	64.4995	104.5200	264.5006	295.4811
2	730	37.0664	105.1062	237.0680	294.8943
NEW 3	733	10.5272	104.8529	210.5290	295.1466
4	735	374.6392	103.1974	174.6392	296.8034
UP ICE	739	362.4254	101.8768	162.4260	298.1233
G.C.	741	0.0043	98.8707	200.0054	301.1292

(Entered)

LOC.	TIME	H.E.	V.E.	H.I.	V.I. (80)
	4 August,	DBS, overcast,	slight breeze, mist.		
G.C.	930	0.0050	98.8695	200.0062	301.1294
DOWN ICE	933	64.5027	104.5220	264.5035	295.4826
2	935	37.0781	105.1076	237.0802	294.8937
NEW 3	937	10.5401	104.8524	210.5398	295.1468
4	939	374.6504	103.2006	174.6522	296.8004
UP ICE	941	362.4267	101.8807	162.4278	298.1193
G.C.	943	0.0051	98.8703	200.0060	301.1305

[ENTERED]

	4 August,	DBS, low clouds, breeze, cool.			
G.C.	1135	0.0050	98.8701	200.0062	301.1290
DOWN ICE	1138	64.5030	104.5206	264.5039	295.4833
2	1140	37.0895	105.1060	237.0895	294.8914
NEW 3	1142	10.5518	104.8538	210.5521	295.1470
4	1144	374.6613	103.2003	174.6627	296.8014
UP ICE	1146	362.4270	101.8786	162.4290	298.1197
G.C.	:	OBSCURED BY CLOUDS			
ROGER	1148	2.0303	102.9076	202.0312	297.0910

[ENTERED]

	4 August 87,	DBS; low clouds, clearing, calm, bugs			
G.C.	1527	0.0050	98.8697	200.0056	301.1294
DOWN ICE	1530	64.5078	104.5210	264.5086	295.4827
2	1532	37.1101	105.1102	237.1122	294.8726
NEW 3	1535	10.5747	104.8552	210.5736	295.1451
4	1537	374.6826	103.2048	174.6836	296.7958
UP ICE	1539	362.4298	101.8825	162.4302	298.1180
G.C.	1542	0.0040	98.8708	200.0046	301.1291

[ENTERED]

(87)

4 Aug Rmk, overcast, rain/fog moving in

g.c.	1740	0.0100	98.8686	200.0107	301.1317
d.i.	Foggy				
2	1742	37.1283	105.1108	237.1306	294.8908
N3	1745	10.5940	104.8528	210.5940	295.1455
4	1747	374.7012	103.2028	174.7031	296.7968
u.i.	Fog				
g.c.	Fog / rain		[ENTERED]		

9 August DBS; low clouds, drizzle, fog, no wind

ROGER	2113	2.0100	102.9070	202.0109	297.0920
DOWN ICE	2116	64.4926	104.5180	264.4983	295.4825
2	2118	37.1219	105.1085	237.1223	294.8926
NEW 3	2121	10.5890	104.8539	210.5888	295.1456
4	2125	374.6964	103.2057	174.6962	296.7934
UP ICE	2127	362.4129	101.8812	162.4148	298.1167
ROGER	2129	2.0099	102.9092	202.0104	297.0932
		[ENTERED]			

6 Aug Dan; light rain, overcast

Roger	1520	2.0100	102.9076	202.0120	297.0949
d.i.	1522	64.5498	104.5137 poor vis. b.l.t.y to down. ice	264.5514	295.4878
2	1523	37.3949	105.1147	237.3950	294.8868
new 3	1524	10.8834	104.8514	210.8847	295.1508
4	1525	374.9750	103.2200	174.9752	296.7816
u.i.	1526	362.4477	101.8903	162.4482	298.1118
Roger	1527	2.0110	102.9088	202.0118	297.0934
		[ENTERED]			

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
6 Aug	Dan; Rain, cold wind, fog				(88)
Roger	1721	2.0100	102.9052	202.0117	297.0944
di.	1722	64.5520	104.5138	264.5514	295.4892
2	1724	37.4094	105.1165	237.4082	294.8841
N3	1725	10.8990	104.8484	210.8993	295.1540
4	1727	374.9908	103.2201	174.9902	296.7822
u.i.	1728	362.4486	101.8898	162.4504	298.1082
Roger	1729	2.0106	102.9072	202.0126	297.0938
		ENTERED			

7 AUGUST, RMK	overcast, fog, slight breeze				
ROGER	729	2.0100	102.9065	202.0112	297.0936
DOWN ICE	731	64.5674	104.5112	264.5694	295.4890
2	733	37.5042	105.1161	237.5041	294.8840
NEW 3	734	11.0008	104.8455	211.0028	295.1540
4	736	375.0876	103.2198	175.0885	296.7801
UP ICE	738	362.4588	101.8872	162.4586	298.1113
ROGER	740	2.0094	102.9050	202.0100	297.0946
		ENTERED			

7 Aug 89					
MET STN.	1113	385.1596	100.5261	185.1602	299.4731
DOWN ICE	1117	65.6200	104.5151	265.6178	295.4882
2	1119	38.5722	105.1189	238.5726	294.8808
NEW 3	1121	12.0453	104.8453	212.0716	295.1544
4	1123	376.1586	103.2263	176.1592	296.7752
UP ICE	1125	363.5047	101.8925	163.5077	298.1082
MET STN.	1127	385.1590	100.5279	185.1596	299.4746
		ENTERED			

07 Aug Day: Overcast

GC 1305 0.0050 98.8720 200.0062 301.1316

d.i. 1306 64.5975 104.5122 264.6006 295.4911

2 1307 37.5616 105.1206 237.5622 294.8822

NEW 3 1309 11.0604 104.8474 211.0609 295.1525

4 1310 375.1467 103.2276 175.1470 296.7743

ui. 1312 362.4836 101.8952 162.4845 298.1054

GC 1313 0.0046 98.8696 200.0059 301.1309

ENTERED

07 August 87 RMK Light rain, breeze, overcast

G.C. 1531 0.0100 98.8712 200.0117 301.1284

DOWN ICE 1532 64.6062 104.5131 264.6077 295.4894

2 1534 37.5814 105.1217 237.5819 294.8790

NEW 3 1535 11.0800 104.8468 211.0818 295.1548

4 1537 375.1664 103.2280 175.1686 296.7723

UP ICE 1538 362.4909 101.8944 162.4918 298.1062

G.C. 1539 0.0104 98.8710 200.0115 301.1306

METSTN 1541 384.1419 100.5274 184.1424 299.4734

ENTERED

7 August, D85, overcast, light breeze, mist

G.C. 1737 0.0050 98.8712 200.0067 301.1302

DOWN ICE 1740 64.6059 104.5123 264.6067 295.4900

2 1742 37.5910 105.1232 237.5922 294.8797

NEW 3 1744 11.0920 104.8486 211.0929 295.1536

4 1746 375.1778 103.2325 175.1770 296.7708

UP ICE 1748 362.4879 101.8946 162.4881 298.1071

G.C. 1750 0.0052 98.8725 200.0064 301.1324

ENTERED

8 Aug RmK, nice morning, one hungry mosquito.

G.C.	0527	0.0090	98.8705	200.0094	301.1313
d.i.	0530	64.6212	104.5085	264.6230	295.4916
2	0533	37.6634	105.1238	237.6656	294.8763
n 3	0535	11.1704	104.8460	211.1724	295.1537
4	0538	375.2534	103.2346	175.2560	296.7651
u.i.	0540	302.5003	101.8978	162.5008	298.1026
G.C.	0542	0.0094	98.8704	200.0099	301.1305
met	0545	384.1408	100.5253	184.1414	299.4751
[ENTERED]					

8 August Dan; calm, sunny, umbrella used

G.C.	0736	0.0050	98.8718	200.0056	301.1310
DOWN ICE	0741	64.6220	104.5086	264.6228	295.4927
2	0743	37.6743	105.1300	237.6740	294.8742
NEW 3	0745	11.1815	104.8502	211.1821	295.1528
4	0748	375.2624	103.2382	175.2625	296.7634
UP ICE	0750	362.4975	101.8962	162.4960	298.1050
G.C.	0752	0.0052	98.8709	200.0059	301.1315
[ENTERED]					

0.0100

8 Aug RmK; Sun, umbrella, calm, THE MEANS

GC	937	0.0010	98.8703	200.0114	301.1313
d.i.	940	64.6261	104.5125	264.6274	295.4906
2	943	37.6867	105.1313	237.6879	294.8724
n 3	945	11.1963	104.8488	211.1969	295.1524
4	947	375.2778	103.2382	175.2798	296.7627
u.i.	948	362.5048	101.8962	162.5045	298.1067
G.C.	950	0.0084	98.8705	200.0098	301.1302
[ENTERED]					

6 August DBS; sun, heat waves, bugs, umbrella used

G.C.	1351	0.0050	98.8728	200.0058	301.1305
DOWN ICE	1354	64.6282	104.5107	264.6289	295.4945
2	1356	37.7085	105.1332	237.7088	294.8706
NEW 3	1358	11.2194	104.8542	211.2187	295.1503
4	1400	375.2988	103.2431	175.2989	296.7614
UP ICE	1402	362.5002	101.9008	162.5038	298.1034
G.C.	1404	0.0050	98.8713	200.0056	301.1330
		ENTERED			

8

8 Aug Rnk; Sun, umbrella *

GC	1625	0.0100	98.8676	200.0124	301.1320
di.	1627	64.6371	104.5085	264.6387	295.4949
2 12	1639	37.7274	105.1316	237.7309	294.8715
* n3	1632	11.2417	104.8505	211.241A	295.1532
4	1635	375.3204	103.2423	175.3221	296.7621
UP ICE	1637	362.5073	101.8987	162.5087	298.1035 162.5035
G.C.	1640	0.0079	98.8700	200.0096	301.1337

* targets all dancing due to heat waves!

ENTERED

8 AUGUST DBS, sunny, calm, bug, umbrella used

GC.	1855	0.0050	98.8711	200.0062	301.1306
DOWN ICE	1857	64.6342	104.5125	264.6333	295.4954
2	1900	37.7373	105.1348	237.7389	294.8714
NEW 3	1902	11.2479	104.8527	211.2408	295.1511
4	1904	375.3293	103.2452	175.3303	296.7574
UP ICE	1907	362.5051	101.8988	162.5067	298.1027
GC	1909	0.0047	98.8723	200.0052	301.1292
		ENTERED			

8 August DBS calm, warm, bugs, some heat waves

G.C.	2053	0.0050	98.8708	200.0058	301.1320
DOWN ICE	2056	64.6376	104.5074	264.6401	295.5025
2	2059	37.7477	105.1354	237.7487	294.8683
NEW3	2101	11.2600	104.8470	211.2594	295.1574
4	2104	375.3404	103.2448	175.3406	296.7559
UP ICE	2107	362.5040	101.8992	162.5050	298.1022
G.C.	2110	0.0052	98.8710	200.0050	301.1318

[ENTERED]

9 Aug 87 RMK, no excuses

G.C.	526	0.0109	98.8687 ⁹	200.0124	301.1317
d.i.	530	64.6486	104.5080	264.6510	295.4939
2	535	37.7998	105.1348	237.8020	294.8668
n3	537	11.3147	104.8456	211.3165	295.1532
4	540	375.3943	103.2452	175.3945	296.7539
m.i.	542	362.5158	101.9040	162.5179	298.1029
g.c.	545	0.0104	98.8686	200.0114	301.1315

[ENTERED]

9 August 87 DBS sunny, slight breeze, umbrella used

G.C.	0734	0.0050	98.8685	200.0052	301.1328
DOWN ICE	0736	64.6470	104.5098	264.6498	295.4928
2	0738	37.8062	105.1389	237.8059	294.8652
NEW3	0741	11.3212	104.8530	211.3204	295.1474
4	0743	375.3988	103.2502	175.3994	296.7546
UP ICE	0746	362.5144	101.9008	162.5144	298.1026
G.C.	0748	0.0052	98.8696	200.0063	301.1320

[ENTERED]

(93)

9 August Rmk; sunny, light breeze, umbrella used, heat waves

G.C.	0954	0.0100	98.8687	200.0108	301.1322
DOWN ICE	0955	64.6511	104.5066	264.6516	295.4952
2	0956	37.8221	105.1388	237.8202	294.8631
NEW3	0957	11.3363	104.8483	211.3388	295.1522
4	0959	375.4164	103.2498	175.4157	296.7520
UP ICE	1000	362.5166	101.9012	162.5192	298.1037
G.C.	1001	0.0084	98.8703	200.0092	301.1318

[ENTERED]

9 Aug 87 Rmk, sun, umbrella

GC.	1205	0.0100	98.8675	200.0123	301.1314
di.	1207	64.6568	104.5082	264.6584	295.4930
2	1210	37.8347	105.1393	237.8385	294.8629
n3	1212	11.3535	104.8522	211.3537	295.1500
4	1215	375.4309	103.2525	175.4314	296.7496
ui.	1216	362.5216	101.9018	162.5232	298.1000
GC	1218	0.0138	98.8698	200.0139	301.1312

[ENTERED]

9 Aug 87 Rmk sun umbrella, heat waves

GC	1423	0.0100	98.8714	200.0099	301.1296
di.	1425	64.6573	104.5100	264.6594	295.4920
2	1427	37.8464	105.1431	237.8459	294.8616
n3	1430	11.3639	104.8527	21.3657	295.1478
4	1433	375.4422	103.2543	175.4424	296.7457
ui.	1436	362.5218	101.9042	162.5228	298.0976
g.c.	1439	0.0115	98.8707	200.0114	301.1285

[ENTERED]

9 Aug 87	Rmk, d. ffuse sun, no umbrella, buckling fgs				
G.C.	1640	0.0100	98.8708	200.0118 200.0160 301.1291	301.1292
d.i.		64.6598	104.5078	264.6616	295.4933
2	1645	37.8564	105.1419	237.8584	294.8603
N3		11.3786	104.8536	211.3794	295.1497
4	1650	375.4556	103.2569	175.4557	296.7458
M.i.		362.5252	101.9020	162.5252	298.0994
G.C.	1655	0.0115	98.8718	200.0138	301.1296
[ENTERED]					

9 August 87 DBS, sunny, warm, bugs, umbrella used					
G.C.	1900	0.0050	98.8710	200.0045	301.1302
DOWN ICE	1902	64.6590	104.5052	264.6599	295.4970
Z	1903	37.8660	105.1427	237.8657	294.8586
(bad lean) NEW 3	1905	11.3874	104.8518	211.3868	295.1489
4	1907	375.4625	103.2572	175.4624	296.7440
UP ICE	1908	362.5210	101.9045	162.5196	298.0967
G.C.	1909	0.0052	98.8704	200.0064	301.1292
[ENTERED]					

9 August RMK; no comments					
G.C.	2132	0.0100	98.8671	200.0118	301.1312
DOWN ICE	2133	64.6652	104.5055	264.6677	295.4970
Z	2135	39.8833	105.1436	237.8842	294.8590
NEW 3	2136	11.4061	104.8509	211.4079	295.1510
4	2137	375.4816	103.2547	175.4820	296.7456
UP ICE	2138	362.5254	101.8956	162.5296	298.1030
G.C.	2140	0.0113	98.8680	200.0122	301.1309
[ENTERED]					

(95)

10 Aug 87 RmK

G.C.	0531	0.0100	98.8679	200.0112 301.132	301.1326
d.i.	0532	64.6734	104.5071	264.6741	295.4942
2	0534	37.9258	105.1431	237.9262	294.8563
n3	0535	11.4502	104.8591	211.4508	295.1510
4	0537	375.5250	103.2580	175.5242	296.7412
U.I.	0540	³ 362.5112	101.8987	162.2329	298.0921
G.C.	0543	000.0108	98.8678	200.0104	301.1338
[ENTERED]					

10 August 1988; calm, overcast

G.C.	0726	0.0050	98.8645	200.0051	301.1345
DOWN ICE	0728	64.6696	104.5082	264.6718	295.4996
2	0731	37.9286	105.1455	237.9300	294.8557
NEW 3	0733	11.4544	104.8525	211.4548	295.1507
4	0735	375.5278	103.2634	172.5285	296.7374
UP ICE	0737	362.5270	101.9032	162.5281	298.0975
G.C.	0739	0.0044	98.8682	200.0049	301.1323
[ENTERED]					
OK					

10 August RmK, diffuse sun, no umbrella, bugs

G.C.	0929	0.0108	98.8680	200.0115	301.1326
DOWN ICE	0930	64.6760	104.5080	264.6782	295.4939
2	0931	37.9441	105.1472	237.9446	294.8543
NEW 3	0932	11.4707	104.8525	211.4711	295.1490
4	0933	375.5440	103.2654	175.5433	296.7368
UP ICE	0934	362.5342	101.9068	162.5344	298.1016
G.C.	0935	0.0105	98.8686	200.0120	301.1331
[ENTERED]					
OK					

[ENTERED]

LOC.	TIME	H.E.	V.E.	H.I.	V.I.
10 August 87	D85, sun, slight breeze, heat waves, umbrella used				96
G.C.	1122	0.0050	98.8689	200.0049	301.1312
DOWN ICE	1124	64.6751	104.5106	264.6761	295.4938
2	1126	37.9510	105.1496	237.9508	294.8550
NEW 3	1129	11.4784	104.8541	211.4775	295.1474
4	1131	375.5494	103.2658	175.5502	296.7366
UP ICE	1133	362.5317	101.9030	162.5318	298.0976
G.C.	1135	0.0056	98.8700	200.0058	301.1306

ENTERED

OK

10 August RMK; umbrella used, heat waves					
G.C.	1322	0.0100	98.8688	200.0113	301.1299
DOWN ICE	1324	64.6768	104.5080	264.6810	295.4938
2	1325	37.9616	105.1499	237.9627	294.8513
NEW 3	1327	11.4927	104.8543	211.4930	295.1461
4	1328	375.5628	103.2672	175.5637	296.7314
UP ICE	1329	362.5332	101.9046	162.5356	298.0943
G.C.	1331	0.0090	98.8680	200.0096	301.1301

ENTERED

OK

10 August D85; slight breeze, heat waves, umbrella used					
G.C.	1521	0.0050	98.8694	200.0064	301.1298
DOWN ICE	1523	64.6774	104.5062	264.6797	295.4963
2	1526	37.9646	105.1507	237.9678	294.8517
NEW 3	1528	11.4976	104.8537	211.4971	295.1477
4	1530	375.5687	103.2695	175.5684	296.7316
UP ICE	1533	362.5294	101.9050	162.5322	298.0941
G.C.	1535	0.0050	98.8702	200.0066	301.1293

ENTERED

10 August OBS; calm, heat waves, umbrella used

G.C.	1721	0.0050	98.8683	200.0052	301.1310
DOWN ICE	1722	64.6789	104.5092	264.6808	295.4964
2	1723	37.9769	105.1504	237.9778	294.8500
NEW 3	1724	11.5080	104.8537	211.5086	295.1476
4	1726	375.5771	103.2708	175.5794	296.7297
UP ICE	1727	362.5326	101.9054	162.5348	298.0977
G.C.	1728	0.0044	98.8684	200.0041	301.1304
<u>ENTERED</u> OK					

10 Aug. Run K, calm, bugs, diffuse sun

G.C.	1910	0.0100	98.8694	200.0112	301.1298
d.i.	1912	64.6873	104.5074	264.6904	295.4938
2	1913	37.9936	105.1508	237.9934	294.8510
N3	1915	11.5249	104.8525	211.5255	295.1471
4	1918	375.5958	103.2708	175.5960	296.7298
Ma.	1920	362.5400	101.9049	162.5398	298.0943
G.C.	1921	0.0095	98.8678	200.0106	301.1307
<u>ENTERED</u>					

10 August OBS; calm

G.C.	2114	0.0050	98.8686	200.0062	301.1321
DOWN ICE	2116	64.6854	104.5056	264.6857	295.4966
2	2118	37.9998	105.1525	237.9996	294.8503
NEW 3	2120	11.5307	104.8509	211.5313	295.1495
4	2121	375.6028	103.27 ¹⁶ ₂₆	175.6020	296.7294
UP ICE	2123	362.5359	101.9019	162.5370	298.0969
G.C.	2124	0.0057	98.8698	200.0072	301.1294
<u>ENTERED</u>					

11 Aug Rank light breeze, overcast

GC	527	0.0100	98.8703	200.0110	301.1298
di.	530	64.6965	104. ⁵ 061	264.6972	295.4942
2	532	38.0454	105.1504	238.0452	294.8489
n3	535	11.5804	104.8496	211.5815	295.1474
4	538	375.6508	103.2734	175.6518	296.7256
Ma.	540	362.5448	101.9067	162.5461	298.0923
GC	542	0.0098	98.8690	200.0104	301.1287

[ENTERED]

11 August 87 DBS; overcast, light breeze

G.C.	0731	0.0050	98.8707	200.0061	301.1302
DOWN ICE	0733	64.6959	104.5042	264.6964	295.4981
2	0735	38.0527	105.1518	238.0540	294.8477
NEW 3	0737	11.5889	104.8532	211.5888	295.1492
4	0739	375.6565	103.2772	175.6561	296.7246
UP ICE	0741	362.5428	101.9091	162.5430	298.0904
G.C.	0743	0.0062	98.8710	200.0061	301.1295

[ENTERED]

11 August DBS; calm, overcast, bad bugs

G.C.	0934	0.0050	98.8724	200.0056	301.1290
DOWN ICE	0936	64.6957	104.5060	264.6972	295.4964
2	0938	38.0602	105.1549	238.0616	294.8471
NEW 3	0940	11.5972	104.8542	211.5974	295.1464
4	0943	375.6653	103.2790	175.6673	296.7224
UP ICE	0945	362.5935	101.9086	162.5928	298.0906
G.C.	0947	0.0650	98.8731	200.0057	301.1294

[ENTERED]

(99)

11 August Rmk, light rain, fog

G.C.	1446	0.0100	98.8702	200.0108	301.1303
DOWN ICE	1448	64.7075	104.5058	264.7085	295.4957
2	1449	38.0934	105.1566	238.0921	294.8450
NEW3	1451	11.6325	104.8522	211.6328	295.1477
4	1453	375.6987	103.2816	175.6988	296.7202
UP ICE	1455	362.5516	101.9101	162.5542	298.0900
G.C.	1456	0.0102	98.8707	200.0112	301.1295

ENTERED

OK

11 August DBS, light rain, fog

G.C.	1653	0.0050	98.8691	200.0065	301.1295
DOWN ICE	1656	64.7039	104.5022	264.7061	295.5020
2	1658	38.0978	105.1560	238.0971	294.8454
NEW 3	1701	11.6380	104.8526	211.6374	295.1479
4	1703	375.7048	103.2838	175.7062	296.7170
UP ICE	1705	362.5475	101.9102	162.5484	298.0892
G.C.	FOGGED OUT				
ROGER	1708	2.0314	102.9056	202.0322	297.0959

ENTERED

11 Aug Rmk, light rain, poor visiblity,

MCT.	2130	382.2006	100.5245	182.2023	299.4758
		Fog			
2	2135	36.1861	105.1542	236.1899	294.8452
N3	2137	9.7291	104.8536	209.7304	295.1479
4	2139	373.7953	103.2822	173.7990	296.7168
NA	2140	360.6189	101.9081	160.6166	298.0907
MET	2143	382.2020	100.5256	182.2015	299.4723

ENTERED

(100)

12 Aug	Rmk,	breeze, overcast			
GC	542	0.0100	98.8706	200.0114	301.0300
di	545	64.7207	104.5031	264.7216	295.4956
2	548	38.1606	105.1608	238.1623	294.8395
N3	550	11.7124	104.8526	211.7134	295.1483
4	553	375.7784	103.2851	175.7778	296.7125
ui.	555	362.5602	101.9108	162.5615	298.0886
Ge	557	0.0102	98.8712	200.0113	301.1293

[ENTERED]

12 August 87 DBS; calm, overcast, bugs

G.C.	0741	0.0050	98.8706	200.0051	301.1296
DOWN ICE	0744	64.7180	104.5029	264.7194	295.5018
2	0746	38.1646	105.1623	238.1640	294.8400
NEW3	0748	11.7179	104.8524	211.7190	295.1487
4	0750	375.7830	103.2892	175.7833	296.7128
UPICE	0752	362.5573	101.9144	162.5580	298.0874
G.C.	0754	0.0049	98.8712	200.0058	301.1294

[ENTERED]

12 August 87 Rmk; overcast, calm, bugs

G.C.	0941	0.0100	98.8710	200.0105	301.1288
DOWN ICE	0943	64.7232	104.5030	264.7249	295.4976
2	0944	38.1769	105.1628	238.1788	294.8389
NEW3	0945	11.7339	104.9829	211.7348	295.1482
4	0946	375.7988	103.2865	175.7993	296.7126
UPICE	0947	362.5611	101.9076	162.5644	298.0936
G.C.	0949	0.0099	98.8716	200.0103	301.1312

[ENTERED]

12 August RMK; clearing, diffuse sun, no umbrella (101)

G.C.	1143	0.0100	98.8685	200.0098	301.1308
DOWN ICE	1145	64.7250	104.5041	264.7280	295.5002
2	1146	38.1905	105.1616	238.1905	294.8387
NEW 3	1148	11.7451	104.8540	211.7457	295.1408
4	1149	375.8096	103.2906	175.8093	296.7115
UP ICE	1150	362.5608	101.9118	162.5625	298.0901
G.C.	1152	0.0078	98.8701	200.0090	301.1312

[ENTERED]

12 Aug Dan; calm, sun, partial overcast, umbrella

G.C.	1336	0.0050	98.8708	200.0038	301.1315
d.i.	1338	64.7216	104.4947 264.7237	264.7237	295.5098
2	1340	38.1920	105.1647	238.1934	294.8382
n3	1342	11.7497	104.8530	211.7495	295.1492
4	1343	375.8142	103.2939	175.8148	296.7091
u.i.	1344	362.5588	101.9165	162.5591	298.0864
G.C.	1345	0.0043	98.8718	200.0054	301.1300

[ENTERED]

12 Aug Dan; breezy, good viewing

G.C.	1534	0.0950	98.8724	200.0053	301.1300
d.i.	1535	64.7262	104.5058	264.7266	295.5002
2	1537	38.2058	105.1651	238.2058	294.8368
n3	1539	11.7622	104. ⁸ 524	211.7629	295.1488
4	1540	375.8252	103.2942	175.8252	296.7061
u.i.	1541	362.5611	101.9158	162.5614	298.0854
G.C.	1542	0.0050	98.8720	200.0052	301.1298

[Entered]

(102)

12 August OBS; overcast, slight breeze, bugs

G.C.	1740	0.0050	98.8703	200.0061	301.1294
DOWN ICE	1742	64.7262	104.5096	264.7289	295.4980
2	1745	38.2175	105.1650	238.2198	294.8396
NEW3	1747	11.7758	104.8538	211.7758	295.1481
4	1749	375.0389	103.2948	175.8391	296.9070
UP ICE	1751	362.5617	101.9156	162.5628	298.0857
G.C.	1753	0.0047	98.8716	200.0058	301.1294

[ENTERED]

12 Aug Rnk, overcast, breeze

G.C.	1935	0.0100 2001	98. 8696 ⁸⁷⁰⁷	200.0095	301.1299
di.	1937	64.7329	104.5022	264.7357	295.4984
2	1939	38.2318	105.1640	238.2316	294.8365
n3	1940	11.7925	104.8519	211.7937	295.1491
4	1942	375.8544	103.2925	175.8539	296.7065
u1	1945	362.5674	101.9144	162.5702	298.0849
G.C.	1947	0.0094	98.8709	200.0100	301.1298

[ENTERED]

12 August OBS ; fog, light breeze, rain, getting dark

G.C.	2143	0.0050	98.8925	200.0053	301.1282
DOWN ICE	2147	64.7319	104.5020	264.7328	295.5036
2	FLBG 2	HAS FALLEN OFF THE SERAC			
NEW3	2150	11.8007	104.8518	211.8012	295.1492
4	2152	375.8637	103.2936	175.8692	296.7050
UP ICE	2154	362.5669	101.9154	162.5685	298.0858
G.C.	2156	0.0070	98.8675	200.0073	301.1306

[ENTERED]

(103)

13 Aug	Rmk; overcast, calm, bugs				
G.C.	0530	0.0100	98.8690	200.0095	301.1300
di.	0535	64.7431	104.5036	264.7460	295.4972
n3	0538	11.8511	104.8503	211.8524	295.1506
4	0540	375.9120	103.2964	175.9133	296.7010
ui.	0543	362.5765	101.9168	162.6754	298.0832
G.C.	0545	0.0099	98.8704	200.0099	301.1298

ENTERED

13 August 87 DBS; overcast, slight breeze

G.C.	0731	0.0050	98.8706	200.0047	301.1306
DOWN ICE	0733	64.7422	104.5007	264.7435	295.4996
NEW3	0735	11.8587	104.8508	211.8585	295.1504
4	0737	375.9185	103.3001	175.9182	296.7012
UP ICE	0739	362.5722	101.9171	162.5730	298.0861
G.C.	0741	0.0045	98.8700	200.0064	301.1297

ENTERED

13 August 87 Rmk; overcast, calm

G.C.	0929	0.0100	98.8706	200.0115	301.1316
DOWN ICE	0930	64.7510	104.5027	264.7509	295.4995
NEW3	0932	11.8762	104.8521	211.8768	295.1493
4	0933	375.9353	103.3006	175.9368	296.6986
UP ICE	0934	362.5797	101.9158	162.5819	298.0842
G.C.	0936	0.0114	98.8714	200.0122	301.1292

ENTERED

(104)

13 Aug

Dan; overcast, breeze

GC	1134	0.0050	98.8694	200.0054	301.1326
u.i.	1136	362.5752	101.9140	162.5760	298.0866
four	1137	375.9399	103.2994	175.9405	296.7035
n3	1138	11.8818	104.8473	211.8820	295.1518
di	1139	64.7471	104.5020	264.7489	295.5018
g.c.	1140	0.0052	98.8687	200.0061	301.1308

Entered

14 Aug - Dan, overcast, blue clouds, bear

gc	1404	0.0050	98.8732	200.0058	301.1331
downice	1406	64.7764	104.5019	264.7775	295.5053
two	spnc				
new3	1407	12.0424	104.8540	212.0426	295.1553
four	1408	376.0964	103.3154	176.0980	296.6878
upice	1410	362.5927	101.9241	162.5949	298.0800
gc	1412	0.0049	98.8738	200.0067	301.1308

[ENTERED]

14 August DBS; partial sun, slight breeze, umbrella used

G.C.	1601	0.0050	98.8727	200.0096	301.1328
DOWNICE	1603	64.7779	104.5008	264.7784	295.5054
NEW3	1605	12.0533	104.8512	212.0542	295.1516
4	1607	376.1071	103.3146	176.1086	296.6876
upice	1609	362.5920	101.9214	162.5930	298.0798
G.C.	1612	0.0018	98.8705	200.0030	301.1301

comment - strong breeze & theodolite drifting
off level at end.

14 August

BBG sun, wind, no umbrella

(105)

gc	1813	0.0050	98.8712	200.0054	301.1306
downice	1814	64.7801	104.4968	264.7828	295.5032
new3	1816	12.0682	104.8496	212.0699	295.1525
four	1817	376.1224	103.3198	176.1226	296.6863
upice	1818	362. 5966 5966	101.9256	162.5968	298.0751
gc	1820	0.0052	98.8690	200.0060	301.1302

[ENTERED]

14 August Bill; clear, calm, no excuses except bugs

G.C.	2020	0.0100	98.8721	200.0105	301.1298
DOWN ICE	2022	64.7874	104.5010	264.7860	295.5007
NEW 3	2024	12.0870	104.8478	212.0891	295.1517
4	2027	376.1406	103.3163	176.1412	296.6836
UP ICE	2029	362.6035	101.9232	162.6049	298.0782
G.C.	2032	0.0104	98.8691	200.0108	301.1308

[ENTERED]

Bill

15 Aug - breeze, sprinkler, overcast, dim

gc	0558	0.0100	98.8693	200.0110	301.1308
downrise	0603	64.7978	104.5012	264.7983	295.4990
new3	0609	12.1980	104.8499	212.1477	295.1522
four			cannot find (I don't have last angles)		
uprise	0618	362.6094	101.9248	162.6112	298.0755
go	0622	0.0108	98.8704	200.0109	301.1294

ENTERED

15 August 87 DBS light rain, overcast, poor visibility

G.C.	0801	0.0050	98.8710	200.0064	301.1304
DOWNICE	0801	64.7963	104.4988	264.7970	295.5048
NEW3	0802	12.1532	104.8497	212.1549	295.1518
4	0803	376.2046	103.3227	176.2052	296.6783
uprise	0804	362.6053	101.9260	162.6068	298.0764
G.C.	0805	0.0057	98.8697	200.0056	301.1322

ENTERED

15 August 87 Bill. light rain, overcast, breeze

gc	1012 1009	0.0100	98.8682 98.8690	200.0102	301.1316
downrise	1016	64.8022	104.4982	264.8016	295.5000
new3	1019	12.1720	104.8480	212.1723	295.1515
four	1022	376.2224	103.3238	176.2210	296.6760
uprise	1025	362.6112	101.9240	162.6136	298.0749
gc	1028	0.0104	98.8674	200.0111	301.1296

ENTERED

15 August Bell; overcast, breeze

107
106

G.C.	1216	0.0100	98.8696	200.0099	301.1326
DOWN * ICE	1219	64.8058	104.4956	264.8057	295.5022
NEW3	1221	12.1804	104.8474	212.1846	295.1517
4	1224	376.2332	103.3250	176.2338	296.6769
UP ICE	1226	362.6138	101.9253	162.6144	298.0743
G.C.	1228	0.0098	98.8685	200.0104	301.1309

* HARD FOR BILL TO SEE

ENTERED

Special Survey : NEW 2 being installed. 15 August

G.C.	1455	0.0100	-	-	-
old 2	1501	38.5680	105.1980	238.5678	294.8042
new 2 about 3 meters South of old site 3					
new 2	1511	38.7365	105.1660	238.7377	294.8399
4	1516	376.2488	103.3276	176.2487	296.6744
		(4 is leaning, will be reset)			
reset 4	1525	376.2438	103.3284	176.2444	296.6729
gc	1529	0.0094	98.8709	200.0104	301.1305

[entered] (as file 081515s.dat)

7

for special

New ones (new2 & new4) should have had distances measured, but they weren't measured. Forgot to take reflectors out of helicopter!

15 August - bill, overcast; some clouds on north
otherwise good vis., sprinkles. 108
~~107~~

gc	1536	0.0100	98.8710	200.0105	301.1328
roger	1539	2.0338	102.9045	202.0343	297.0962
downice	1542	64.8066	104.5003	264.8072	295.5016
new2	1545	38.7376	105.1631	238.7376	294.8394
new3	1548	12.2008	104.8497	212.2014	295.1516
new4	1551	376.2448	103.3273	176.2475	296.6725
upice	1551	362.6135	101.9252	162.6144	298.0748
gc	1557	0.0084	98.8698	200.0088	301.1324

entered

15 August - bill, mostly overcast, blue clouds, slight N breeze. good viewing

gc	1744	0.0100	98.8698	200.0102	301.1310
downice	1747	64.8116	104.4988	264.8122	295.5045
new2	1750	38.7502	105.1615	238.7518	294.8376
new3	1753	12.2142	104.8510	212.2134	295.1510
new4	1755	376.2584	103.3298	176.2591	296.6712
upice	1758	362.6160	101.9240	162.6164	298.0754
gc	1801	0.0084	98.8684	200.0094	301.1324

entered

(109)

15 Aug - bill, overcast, breezy, chilly, good viewing

gc	1939	0.0100	98.8702	200.0108	301.1282
down	1943	64.8128	104.4984	264.8136	295.5012
new 2	1946	38.7608	105.1632	238.7612	294.8352
new 3	1948	12.2251	104.8496	212.2265	295.1475
new 4	1952	376.2715	103.3334	176.2730	296.6679
upice	1954	362.6186	101.9282	162.6202	298.0726
gc	1957	0.0097	98.8709	200.0114	301.1304 [ENTERED]

15 August DBS; clearing, cool, breeze, good viewing

G.C.	2135	0.0050	98.8709	200.0053	301.1326
DOWN ICE	2138	64.8127	104.5009	264.8130	295.5071
NEW 2	2141	38.7667	105.1641	238.7660	294.8390
NEW 3	2143	12.2316	104.8519	212.2316	295.1504
NEW 4	2144	376.2785	103.3318	176.2785	296.6699
UPICE	2147	362.6156	101.9290	162.6159	298.0722
G.C.	2149	0.0062	98.8690	200.0060	301.1304 [ENTERED]

16 August bill, partly cloudy, sun not up yet, chilly, breeze, ^{dimin} ~~returning~~

gc	0537	0.0100	98.8710	200.0104	301.1319
down	0541	64.8228	104.4965	264.8212	295.5002
new 2	0546	38.8112	105.1655	238.8120	294.8347
new 3	0550	12.2818	104.8490	212.2826	295.1515
new 4	0551	376.3276	103.3338	176.3287	296.6654
upice	0557	362.6240	101.9272	162.6250	298.0713
gc	0600	0.0093	98.8702	200.0094	301.1300 [ENTERED]

16 August 81 DBS sun, breeze, shadows and jitter.

G.C.	0758	0.0050	98.8722	200.0046	301.1319
DOWN ICE	0759	64.8211	104.4948	264.8220	295.5075
NEW2	0800	38.8170	105.1655	238.8187	294.8367
NEW3	0802	12.2891	104.8512	212.2893	295.1508
NEW4	0803	376.3348	103.3372	176.3336	296.6655
UP ICE	0804	362.6235	101.9291	162.6230	298.0718
G.C.	0805	0.0042	98.8718	200.0050	301.1305
<u>ENTERED</u>					

16 August Bill, overcast, calm

G.C.	0957	0.0100	98.8728	200.0106	301.1316
DOWN ICE	0959	64.8293	104.4988	264.8281	295.5032
N2	1002	38.8312	105.1679	238.8341	294.8349
N3	1004	12.3045	104.8529	212.3055	295.1498
N4	1006	376.3488	103.3400	176.3506	296.6646
UP ICE	1009	362.6262	101.9296	162.6294	298.0726
G.C.	1010	0.0089	98.8712	200.0090	301.1316
<u>ENTERED</u> - no & work re-entered OK 19 August					

16 August Den overcast, slight breeze, sand moving

gc	1159	0.0050	98.8706	200.0070	301.1324
downice	1200	64.8266	104.4973	264.8278	295.5072
new2	1201	38.8396	105.1683	238.8402	294.8338
new3	1202	12.3117	104.8520	212.3123	295.1499
new4	1203	376.3581	103.3392	176.3586	296.6632
upice	1205	362.6262	101.9276	162.6261	298.0738
gc	1206	0.0066	98.8687	200.0071	301.1325
<u>ENTERED</u>					

(111)

16 August 87 Bill, overcast, some head wounds

gc	1353	0.0100	98.87107	200.0098	301.1362
downice	1355	64.8284	104.4994	264.8290	295.5026
new2	1357	38.8502	105.1720	238.8516	294.8336
new3	1359	12.3226	104.8525	212.3244	295.1525
new4	1401	376.3693	103.3424	176.3697	296.6603
upice	1403	362.6272	101.9321	162.6272	298.0702
gc	1405	0.0066	98.8710	200.0066	301.1312

ENTERED

16 August DBS, clouds, slight breeze, umbrella used

G.C.	1559	0.0050	98.8710	200.0048	301.1308
DOWN ICE	1602	64.8276	104.4960	264.8295	295.5066
N2	1605	38.8560	105.1716	238.8555	294.8326
N3	1607	12.3286	104.8514	212.3290	295.1489
N4	1609	376.3737	103.3420	176.3740	296.6588
UPICE	1611	362.6226	101.9320	162.6224	298.0692
G.C.	1613	0.0030	98.8712	200.0020	301.1302

ENTERED

16 August 87 Bill; clouds, calm, good viewing

G.C.	1759	0.0100	98.8692	200.0104	301.1298
DOWN ICE	1802	64.8356	104.4979	264.8365	295.5036
N2 *	1805	38.8734	105.1695	238.8743	294.8322
N3	1812	12.3476	104.8522	212.3495	295.1492
N4	1814	376.3930	103.3436	176.3944	296.6587
UPICE	1816	362.6308	101.9304	162.6334	298.0692
G.C.	1818	0.0090	98.8706	200.0100	301.1310

ENTERED

16 August 87 DBS; calm, overcast, bergs

G.C.	1953	0.0050	98.8707	200.0052	301.1296
DOWN ICE	1955	64.8333	104.4955	264.8351	295.5077
N2	1957	38.8778	105.1689	238.8786	294.8323
N3	2000	12.3522	104.8522	212.3536	295.1484
N4	2002	376.4000	103.3434	176.4007	296.6582
UP ICE	2004	362.6302	101.9310	162.6308	298.0705
G.C.	2006	0.0048	98.8726	200.0059	301.1295

[ENTERED]

16 August 87 Bill; calm, overcast, getting dim

gc	2135	0.0100	98.8699	200.0108	301.1308
downice	2138	64.8376	104.4946	264.8398	295.5039
new2	2143	38.8922	105.1656	238.8934	294.8331
new3	2146	12.3677	104.8534	212.3678	295.1492
new4	2149	376.4144	103.3437	176.4150	296.6574
upice	2152	362.6361	101.9316	162.6370	298.0701
gc	2155	0.0106	98.8684	200.0114	301.1306

[ENTERED]

sprinkles

17 August Bill overcast, cool, slight breeze, good viewing

gc	0630	98.8708	200.0115	301.1316
downice	0634	64.8479	104.4948	264.8494
new2	0638	38.9379	105.1692	238.9387
new3	0641	12.4194	104.8522	212.4194
new4	0644	376.4606	103.3471	176.4646
upice	0647	362.6408	101.9329	162.6434
gc	0649	0.0107	98.8686	200.0108

[ENTERED]

17 August 87 DBS; overcast, calm, bugs

G.C.	0834	0.0050	98.8711	200.0060	301.1302
DOWN ICE	0836	64.8471	104.4943	264.8478	295.5072
N2	0838	38.9425	105.1711	238.9432	294.8314
N3	0840	12.4232	104.8521	212.4244	295.1505
N4	0842	376.4678	103.3492	176.4682	296.6518
UP ICE	0844	362.6372	101.9334	162.6384	298.0681
G.C.	0845	0.0049	98.8706	200.0056	301.1293

[ENTERED]17 August 87 Bill overcast, breezy, ~~min~~ heat waves

gc	1027	0.0100	98.8706	200.0094	301.1306
downice	1030	64.8500	104.4968	264.8579	295.5058
new2	1033	38.9554	105.1714	238.9574	294.8306
new3	1036	12.4384	104.8534	212.4394	295.1502
new4	1039	376.4833	103.3498	176.4834	296.6520
upice	1041	362.6424	101.9348	162.6444	298.0680
gc	1044	0.0094	98.8704	200.0112	301.1317

[ENTERED]

17 August 87 Bill, breeze, sun, umbrella, heat waves

gc	1244	0.0100	98.8706	200.0107	301.1290
downice	1247	64.8556	104.4958	264.8557	295.5038
new2	1250	38.9682	105.1714	238.9687	294.8292
upice	1252	12.4511	104.8530	212.4532	295.1485
		376.4940			
new4	1256	376.4989	103.3518	176.4952	296.6498
upice	1259	362.6434	101.9326	162.6443	298.0687
gc	1302	0.0076	98.8710	200.0087	301.1308

[ENTERED]

17 August 87 DBS; sun, breeze, umbrella used

G.C.	1606	0.0050	98.8700	200.0059	301.1286
DOWNICE	1608	64.8528	104.4939	264.8548	295.5104
N2	1610	38.9800	105.1707	238.9812	294.8327
N3	1612	12.4646	104.8513	212.4660	295.1493
N4	1614	376.5092	103.3533	176.5102	296.6482
UPICE	1616	362.6415	101.9327	162.6432	298.0672
G.C.	1618	0.0048	98.8716	200.0050	301.1291

[ENTERED]

17 August 87 Bill; clouds, slight breeze, bugs, good viewing

G.C.	1802	0.0100	98.8686	200.0107	301.1304
DOWNICE	1804	64.8604	104.4936	264.8616	295.5072
N2	1806	38.9958	105.1720	238.9977	294.8293
N3	1808	12.4804	104.8506	212.4806	295.1500
N4	1810	376.5252	103.3524	176.5270	296.6468
UPICE	1812	362.6485	101.9350	162.6494	298.0648
G.C.	1814	0.0094	98.8688	200.0108	301.1298

[ENTERED]

17 August 87-Bill; clouds, slight breeze,

G.C.	2002	0.0100	98.8706	200.0112	301.1298
DOWNICE	2004	64.8640	104.4940	264.8648	295.5062
N2	2005	39.0066	105.1727	239.0075	294.8274
N3	2007	12.4927	104.8538	212.4947	295.1494
N4	2009	376.5377	103.3532	176.5386	296.6472
UPICE	2011	362.6506	101.9362	162.6516	298.0656
G.C.	2013	0.0111	98.8700	200.0118	301.1309

[ENTERED]

17 August 87 DB5, clouds, slight breeze, getting dark

G.C.	2140	0.0050	98.8716	200.0055	301.1294
DOWNICE	2141	64.8601	104.4944	264.8608	295.5073
NZ	2143	39.0106	105.1708	239.0115	294.8289
N3	2145	12.4976	104.8522	212.4959	295.1493
N4	2147	376.5408	103.3540	176.5420	296.6484
WPIRE	2149	362.6466	101.9358	162.6473	298.0648
G.C.	2151	0.0055	98.8700	200.0070	301.1306

[ENTERED]

18 Aug - B3.11

0554
gc

clear, calm, sun hot
0.0108 98.8680

~~0.0108~~ ~~98.8680~~

rp yet, BUGS
200.0105 301.1292

downice 0558

64.8720 104.4919 264.8725 295.5088

new2 0601

39.0579 105.1735 239.0595 294.8282

new3 0603

12.5497 104.8518 212.5510 295.1477

new4 0606

376.5913 103.3566 176.5928 296.6445

wpire 0609

362.6574 101.9364 162.6594 298.0634

gc 0611

0.0110 98.8685 200.0118 301.1313

[ENTERED]

18 August 87

DB5. c/ducks, breeze

gc 0749

0.0050 98.8710 200.0060 301.1307

downice 0750

64.8710 104.4934 264.8721 295.5090

new2 0752

39.0600 105.1722 239.0622 294.8287

new3 0753

12.5554 104.8510 212.5553 295.1511

new4 0754

376.5964 103.3584 176.5972 296.6413

wpiire 0755

362.6542 101.9376 162.6552 298.0629

gc 0756

0.0054 98.8708 200.0062 301.1315

[ENTERED]

18 August 87 DBS Sun, cool breeze

gc	0949	0.0050	98.8724	200.0053	301.1300
downice	0950	64.8699	104.4932	264.8729	295.5105
new2	0951	39.0704	105.1722	239.0708	294.8282
new3	0952	12.5633	104.8508	212.5642	295.1512
new4	0954	376.6055	103.3606	176.6072	296.6408
upice	0955	362.6540	101.9380	162.6538	298.0614
gc	0956	0.0045	98.8698	200.0052	301.1292

[ENTERED]

18 August 87 Bill; sun, breeze, umbrella used, heat waves

G.C. 1152 0.0116 98.8700 200.0126 301.1312

DOWNICE 1155 64.8792 104.4941 264.8818 295.5073

N2 1157 39.0894 105.1753 239.0901 294.8252

N3 1159 12.5844 104.8520 212.5852 295.1494

N4 1201 376.6258 103.3614 176.6268 296.6387

UPICE 1203 362.6626 101.9397 162.6641 298.0622

G.C. 1205 0.0128 98.8705 200.0132 301.1304

[ENTERED] OK

18 August Bill, sun, breeze, ~~heat~~ heat waves, umbrella

gc 1345 0.0100 98.8711 200.0108 301.1300

downice 1348 64.8794 104.4920 264.8801 295.5074

new2 1350 39.0959 105.1749 239.0948 294.8259

new3 1353 12.5900 104.8501 212.5922 295.1509

new4 1352 376.6318 103.3586 176.6333 296.6398

upice 1358 362.6606 101.9344 162.6608 298.0627

gc 1401 0.0082 98.8688 200.0093 301.1292

[ENTERED]

18 August 87 Bill; sun, cold wind, umbrella used, heat waves

G.C.	1555	0.0100	98.8700	200.0116	301.1318
DOWN ICE	1557	64.8838	104.4930	264.8838	295.5078
N2	1559	39.1071	105.1754	239.1082	294.8260
N3	1601	12.6032	104.8502	212.6033	295.1500
N4	1603	376.6431	103.3631	176.6462	296.6370
UPICE	1605	362.6620	101.9364	162.6634	298.0630
G.C.	1607	0.0096	98.8693	200.0102	301.1314

[ENTERED]

18 August 87 DBS, clouds, cool breeze, wind jitter,

gc	1740	0.0050	98.8710	200.0048	301.1308
downice	1741	64.8773	104.4915	264.8795	295.5112
new2	1742	39.1094	105.1750	239.1114	294.8256
new3	1743	12.6066	104.8505	212.6082	295.1491
new4	1744	376.6466	103.3649	176.6474	296.6362
upice	1746	362.6565	101.9397	162.6584	298.0619
gc	1747	0.0034	98.8710	200.0042	301.1294

[ENTERED]

18 August 87 Bill overcast, cool breeze, good viewing

gc	1942	0.0100	98.8691	200.0105	301.1286
downice	1945	64.8848	104.4918	264.8860	295.5089
new2	1948	39.1264	105.1728	239.1256	294.8252
new3	1950	12.6275	104.8512	212.6286	295.1498
new4	1953	376.6678	103.3656	176.6683	296.6344
upice	1955	362.6662	101.9399	162.6669	298.0591
gc	1957	0.0102	98.8708	200.0110	301.1300

[ENTERED]

			HE	VE	HL	VL
Bill + 5 min		Aug 87	Bill.	Getting dark & cloudy		(118)
gc	2140	0.0100	98.8686	200.0103	301.1286	
downice	2142	64.8862	104.4916	264.8866	295.5096	
new2	2144	39.1346	105.1768	239.1358	294.8258	
new3	2146	12.6351	104.8493	212.6348	295.1488	
new4	2148	376.6754	103.3656	176.6782	296.6341	
upice	2150	362.6728	101.9390	162.6681	298.0610	
gc	2152	0.0094	98.8716	200.0108	301.1276	

[ENTERED] [PROOVED]

19 August 87 Bill sun not yet up. Partly Calm, bugs. good viewing

gc	0559	0.0100	98.8717	200.0107	301.1300
downice	0602	64.8952	104.4910	264.8953	295.5086
new2	0604	39.1782	105.1754	239.1790	294.8248
new3	0608	12.6846	104.8484	212.6858	295.1510
new4	0611	376.7246	103.3680	176.7262	296.6316
upice	0613	362.6724	101.9411	162.6730	298.0581
gc	0615	0.0106	98.8686	200.0118	301.1303

[ENTERED] [PROOVED]

19 August 87 Bill, overcast, calm, bugs. good viewing

gc	0753	0.0100	98.8680	200.0106	301.1292
downice	0756	64.8982	104.4894	264.8978	295.5096
new2	0758	39.1896	105.1776	239.1903	294.8237
new3	0800	12.6970	104.8474	212.6958	295.1510
new4	0803	376.7321	103.3675	176.7340	296.6362
upice	0806	362.6729	101.9352	162.6743	298.0638
gc	0809	0.0093	98.8682	200.0100	301.1324

[ENTERED & PROOVED]

Bill + 5 min	t	HE	HE	HI	VI
*	19 August 87	Bill, calm, overcast, BUGS.		BUGS	(119)
gc	0957	0.0100	98.8704	200.0111	301.1295
downice	959	64.9084	104.4911	264.9002	295.5096
new2	1001	39.1984	105.1786	239.1996	294.8232
new3	1003	12.7053	104.8528	212.7054	295.1492
new4	1005	376.7461	103.3723	176.7470	296.6310
upice	1007	362.6753	101.9424	162.6774	298.0599
gc	1009	0.0108	98.8735	200.0126	301.1302

ENTERED & PROOFED

				calm	bugs
*	19 Aug 87	Bill, warmer, partly cloudy			
gc	1157	0.0100	98.8712	200.0106	301.1300
downice	1159	64.9007	104.4925	264.9017	295.5113
new2	1201	39.2080	105.1793	239.2085	294.8222
new3	1202	12.7157	104.8528	212.7162	295.1512
new4	1204	376.7544	103.3723	176.7542	296.6298
upice	1205	362.6746	101.9424	162.6758	298.0604
gc	1207	0.0066	98.8702	200.0088	301.1296

ENTERED & PROOFED

	19 August 87	Bill, calm, heat waves overcast		
gc	1359	0.0100	98.8708	200.0097
downice	1402	64.9037	104.4894	264.9064
new2	1404	39.2185	105.1805	239.2206
new3	1406	12.7282	104.8526	212.7301
new4	1409	376.7670	103.3777	176.7681
upice	1411	362.6783	101.9420	162.6787
gc	1413	0.0110	98.8726	200.0117

ENTERED & PROOFED

R. hills time + 5 min							(120)
	19 August	87	breeze, sunny, umbrella, had heat waves				
* gc	1608	0.0100	98.8706	200.0092	301.1292		
downice	1609	64.9055	104.4891	264.9074	295.5105		
new2	1611	39.2275	105.1812	239.2297	294.8230		
new3	1613	12.7369	104.8521	212.7386	295.1506		
new4	1614	376.7762	103.3756	176.7762	296.6265		
upice	1616	362.6766	101.9418	162.6785	298.0584		
gc	1618	0.0074	98.8714	200.0082	301.1306		

ENTERED

19 August Bill, Windy, jittery heat waves, sunny

gc 1755 0.0100 98.8692 200.0096 301.1302

* downice 1758 64.9108 104.4868 264.9108 295.5111

new2 1801 39.2420 105.1798 239.2452 294.8236

new3 1804 12.74487 104.8503 212.7518 295.1536

new4 1807 376.7877 103.3752 176.7902 296.6244

upice 1810 362.6770 101.9467 162.6784 298.0552

gc 1812 0.0080 98.8700 200.0075 301.1298

[DOWNGRADED & PROOFED]

+ downice very jittery, all are very blurry + jittery

19 Aug Bill, breezy, heat waves (see clouds to N)

gc 1939 0.0100 98.8696 200.0120 301.1285

downice 1942 64.9132 104.4889 264.9145 295.5110

new2 1945 39.2514 105.1777 239.2528 294.8220

new3 1947 12.7637 104.8493 212.7638 295.1490

new4 1950 376.8010 103.3762 176.8023 296.6264

upice 1953 362.6840 101.9404 162.6853 298.0582

gc 1955 0.0106 98.8702 200.0118 301.1302

gc flapping wildly, flags only in slight breeze on ice.

	t	HE	VE	HI	VE
*	19 Aug	87	Bill, calm b wind	starting, good wind	(121)

gc	2138	0.0100	98.8696	200.0105	301.1298
downice	2140	64.9126	104.4882	264.9136	295.5107
new2	2142	39.2593	105.1781	239.2599	294.8224
new3	2143	12.7710	104.8472	212.7736	295.1530
new4	2145	376.8108	103.3746	176.8100	296.6254
upice	2147	362.6825	101.9433	162.6848	298.0570
gc	2148	0.0086	98.8696	200.0100	301.1304

ENTERED

bad glass from rim sun
20 August Bill. calm between high winds, clean, ↑ sunrise

roger	0653	2.0300	102.9063	202.0304	297.0962
gc	0657	64.9169	104.4919	264.9160	295.5111
downice	0700	39.3031	105.1773	239.3051	294.8202
new3	0703	12.8209	104.8476	212.8224	295.1531
new4	0706	376.8582	103.3775	176.8603	296.6218
upice	0708	362.6817	101.9416	162.6825	298.0571
roger	0711	2.0296	102.9052	202.0314	297.0929

↑ heat waves over townie

ENTERED

cannot clearly see reflection on upice. bad sun angle.

*	20 August	Bill. calm after wind storm, sunny	bad waves		
gc	1729	0.0100	98.6896	200.0108	301.1342
downice	1731	64.9368	104.4896	264.9362	295.5133
new2	1733	39.3687	105.1819	239.3700	294.8206
new3	1735	12.8938	104.8524	212.8934	295.1542
new4	1737	376.9259	103.3824	176.9270	296.6183
upice	1738	362.6936	101.9446	162.6970	298.0524
gc	1740	0.0085	98.8672	200.0088	301.1338

20 August - Bill, breezy, sunny, good viewing, Bugs, bad eyes

gc	1945	0.0100	98.8664	200.0110	301.1310
downice	1948	64.9382	104.4892	264.9396	295.5146
new2	1950	39.3852	105.1810	239.3876	294.8194
new3	1953	12.9122	104.8472	212.9138	295.1547
new4	1956	376.9476	103.3832	176.9459	296.6174
upice	1958	362.7020	101.9448	162.7043	298.0551
gc	2001	0.0129	98.8690	200.0140	301.1276

ENTERED ~~11:10~~

* 20 August - Bill, calm, sun down, some breeze, good viewing, Bugs!

gc	2136	0.0100	98.8702	200.0104	301.1318
downice	2138	64.9380	104.4883	264.9410	295.5112
new2	2140	39.3942	105.1786	239.3936	294.8208
new3	2142	12.9192	104.8477	212.9200	295.1510
new4	2144	376.9530	103.3839	176.9558	296.6186
upice	2146	362.6999	101.9481	162.7016	298.0520
gc	2148	0.0092	98.8680	200.0102	301.1326

* 21 Bills fund + \$25 min

ENTERED

(wind during AM of 21 Aug prevents viewing)

gc	1750	0.0100	98.8688	200.0110	301.1334
downice	1751	64.9672	104.4929	264.9651	295.5013
new2	1757	39.5110	105.1840	239.5129	294.8178
new3	1800	13.0486	104.8532	213.0474	295.1564
new4	1803	377.0790	103.3946	177.0812	296.6086
upice	1806	362.7198	101.9499	162.7152	298.0486
gc	1809	0.0104	98.8690	200.0101	301.1312

ENTERED

notes by Roy, times fatty time

(123)

8/21/87 bill, calm, sunset, bugs!

gc	2114	0.0100	98.8698	200.0107	301.1305
downne	2116	64.9684	104.4842	264.9686	295.5178
n2	2118	39.5316	105.1836	239.5320	294.8152
n3	2119	13.0722	104.8483	213.0733	295.1546
n4	2121	377.1041	103.3948	177.1031	296.6055
upne	2123	362.7180	101.9482	162.7194	298.0514
gc	2125	0.0104	98.8672	200.0118	301.1338

[ENTERED]

some faint waves

22 August 87 Bill, calm, before sunrise, bugs.

gc	0606	0.0100	98.8720	200.0102	301.1296
down	0608	64.9754	104.4874	264.9750	295.5124
n2	0611	39.5780	105.1852	239.5780	294.8150
n3	0614	13.1230	104.8465	213.1246	295.1534
n4	0617	377.1460	103.3976	177.1564	296.6026
upne	0620	362.7238	101.9506	162.7258	298.0529
gc	0622	0.0100	98.8694	200.0104	301.1319

[ENTERED]

22 Aug 87 Bill, calm, heat waves

gc	0826	0.0100	98.8662	200.0118	301.1342
down	0827	64.9829	104.4839	264.9824	295.5208
n2	0829	39.5920	105.1871	239.5935	294.8164
n3	0831	13.1415	104.8446	213.1422	295.1548
n4	0833	377.1718	103.3969	177.1735	296.6040
upne	0835	362.7282	101.9492	162.7312	298.0502
gc	0837	0.0114	98.8676	200.0119	301.1306

[ENTERED]

uv-Brella

(124)

22 Aug 87, calm, Bill, Bugs, heat waves

gc	1022	0.0100	98.8684	200.0100	301.1304
down	1024	64.974	104.4849	264.9785	295.5155
n2	1026	39.5984	105.1887	239.5995	294.8110
n3	1028	13.1470	104.8464	213.1475	295.1524
n4	1030	377.1786	103.4008	177.1802	296.5976
upice	1033	362.7259	101.9516	162.7273	298.0476
gc	1036	0.0098	98.8700	200.0103	301.1306

ENTERED

22 August 87. Roy (learning). sun, hot, umbrella, bugs, heat

gc	1319	0.0100	98.8720	200. ⁰¹¹⁰ 0100	301.1305
downice	1325	64.9915	104.4894	264.9942	295.8308
new 2	1330	39.6192	105.1888	239.6179	294.8108
new 3	1333	13.1726	104.8482	213.1697	295.1536
new 4	1336	377.2031	103.4040	177.2036	296.5963
upice	1340	362.7308	101.9528	162.7314	298.0466
gc	1343	0.0124	98.8689	200.0130	301.1288
roger	1346	2.0379	102.9072	202.0388	297.4134

ENTERED

calm

bad

22 August - Bill, hot, umbrella, bugs, heat waves.

gc	1514	0.0100	98.8700	200.0085	301.1302
down	1517	64.9822	104.4856	264.9844	295.5087
new 2	1520	39.6268	105.1900	239.6274	294.8090
new 3	1522	13.1760	104.8470	213.1768	295.1533
new 4	1525	377.2078	103.4068	177.2088	296.5934
upice	1527	362.7284	101.9550	162.7290	298.0461
gc	1529	0.0085	98.8670	200.0080	301.1319

ENTERED

22 Aug 87 Bill, hlt, sunny, umbrella BUGS, high wave

gc	1719	0.0086	98.8684	200.0100	301.1311
downice	1721	64.9873	104.4831	264.9863	295.5149
new2	1724	39.6350	105.1912	239.6352	294.6078
new3	1727	13.1865	104.8448	213.1877	295.1527
new4	1729	377.2205	103.4037	177.2200	296.5944
upice	1731	362.7277	101.9552	162.7 1112 ²⁸¹	298.0460
gc	1734	0.0067	98.8686	200.0060	301.1308

[ENTERED]

22 Aug 87 Bill, gc flags torn off staff
still visible, calm, BUGS!!??!!

gc	1918	0.0100	98.8684	200.0112	301.1308
downice	1921	64.9897	104.4818	264.9920	295.5146
new2	1923	39.6492	105.1908	239.6508	294.8102
new3	1925	13.2036	104.8451	213.2018	295.1530
new4	1927	377.2318	103.4038	177.2328	296.5936
upice	1928	362.7328	101.9536	162.7326	298.0472
gc	1930	0.0088	98.8690	200.0091	301.1300

[ENTERED]

8/22/87 Bill, dusk, viewing good,

gc	2114	0.0100	98.8690	200.0099	301.1318
downice	2116	64.9924	104.4854	264.9970	295.5171
new2	2118	39.6604	105.1914	239.6612	294.8104
new3	2119	13.2144	104.8456	213.2165	295.1544
new4	2121	377.2478	103.4042	177.2477	296.5962
upice	2123	362.7352	101.9519	162.7370	298.0478
gc	2125	0.0110	98.8689	200.0113	301.1310

[ENTERED]

23 August 87 Bill, before sunrise, hazy, BUGS

gc	0618	0.0100	98.8710	200.0105	301.1288
down	0620	2.0370	102.9062	202.0367	297.0927
downmn	0624	65.0022	104.4855	265.0020	295.5172
new2	0626	39.7057	105.1906	39.7068	294.8110
new3	0629	13.2679	104.8457	213.2689	295.1538
new4	0631	377.2955	103.4079	177.2979	296.5905
upice	0633	362.7398	101.9545	162.7422	298.0472
				burred it	
gc	0636	0.0085	98.8680	200.0091	301.1309

[ENTERED]

BUGS blury eyes, but heat waves

23 August 87 Bill, clear sunny, calm, looking into low sun

gc	0826	0.0100	98.8676	200.0098	301.1309
downmn	0829	65.0078	104.4840	265.0051	295.5172
new2	0832	39.7214	105.1895	239.7208	294.8118
new3	0832	13.2816	104.8459	213.2825	295.1564
new4	0840	377.3091	103.4092	177.3132	296.5932
upice	0843	362.7770	101.9559	162.7501	298.0402
gc	0847	0.0092	98.8674	200.0129	301.1342

very blurry + wobbly

BSR backlit + in shadow hard to see

[ENTERED]

129

23 August Bill, blurry eyes (cannot focus well)
bapt

meamy, sunny, umbrella, heat waves, wind jitter

gc	1044	0.0086	98.8650	200.0085	301.1350
downm	1049	65.0038	104.4822	265.0028	295.5218
new2	1053	39.7236	105.1918	239.7258	294.8058
new3	1056	13.2900	104.8440	213.2886	295.1550
new4	1058	377.3176	103.4116	177.3184	296.5880
upice	1101	362.7393	101.9541	162.7402	298.0421
gc	1103	0.7080	98.8674	200.0092	301.1404

ENTERED

23 August 87 Ray (2nd time practicing)

meamy, wind jitter, sunny, umbrella

gc	1230	0.0100	98.8698	200.0116	301.1285
downice	1233	65.0153	104.4880	265.0171	295.5144
new2	1237	39.7407	105.1946	239.7446	294.8086
new3	1241	13.3062	104.8491	213.3086	295.1516
new4	1243	377.3385	103.4128	177.3409	296.5838
upice	1248	362.7496	101.9573	162.7508	298.0422
gc	1251	0.0116	98.8691	200.0144	301.1315

umbrella blown out of way, drifted off level + hit

ENTERED

23 August Bill, good focus, freeze, umbrella, sun, heat waves

gc	1454	0.0100	98.8684	200.0102	301.1298
downice	1456	65.0105	104.4872	265.0132	295.5154
new2	1459	39.7506	105.1963	239.7528	294.8045
new3	1502	13.3176	104.8466	213.3185	295.1541
new4	1504	377.3466	103.4137	177.3473	296.5848
upice	1506	362.7444	101.9536	162.7472	298.0446
gc	1509	0.0088	98.8660	200.0096	301.1350

ENTERED

(128)

23 August Bill, gusty, sunny, umbrella

gc	1651	0.0100	98.8694	200.0097	301.1289
downrise	1654	65.0134	104.4801	265.0140	295.5194
new2	1700	39.7623	105.1948	239.7631	294.8040
new3	1702	13.3288	104.8468	213.3295	295.1536
new4	1704	377.3576	103.4160	177.3585	296.5814
uprise	1706	362.7465	101.9590	162.7476	298.0412
gc	1709	0.0084	98.8690	200.0104	301.1282

downrise very indistinct

ENTERED

23 August 87 Bill, breezy, sun behind tent, heat waves

gc	1901	0.0100	98.8677	200.0107	301.1290
downrise	1904	65.0149	104.4786	265.0149	295.5210
new2	1906	39.7726	105.1956	239.7748	294.8048
new3	1908	13.3410	104.8494	213.3418	295.1538
new4	1911	48377.3711	103.4159	177.3735	296.5834
uprise	1913	362.7508	101.9583	162.7508	298.0412
gc	1915	0.0099	98.8691	200.0096	301.1307

bad heat waves at downrise

ENTERED

23 August 87 sandstorm, Creepy, BUGS!!

gc	2100	0.0100	98.8708	200.0103	301.1306
downrise	2102	65.0167	104.4794	265.0154	295.5236
new2	2104	39.7844	105.1947	239.7855	294.8042
new3	2106	13.3537	104.8478	213.3548	295.1523
new4	2108	377.3834	103.4163	177.3846	296.5823
uprise	2110	362.7505	101.9590	162.7508	298.0400
gc	2112	0.0090	98.8672	200.0092	301.1307

ENTERED

24 August 87 Bill, before sunrise, calm, clear viewing clearly

gc	0610	0.0100	98.8706	200.0103	301.1306
downin	0613	65.0275	104.4793	265.0286	295.5214
new 2	0616	39.8326	105.1960	239.8345	294.8036
new 3	0618	13.4092	104.8452	213.4090	295.1546
new 4	0620	377.4394	103.4196	177.4406	296.5790
upice	0623	362.7571	101.9524	162.7584	298.0449
gc	0626	0.0100	98.8705	200.0100	301.1323

[ENTERED]

Bugs

24 August Bill, calm, looks like sun, umbrella, heat waves

gc	0831	0.0100	98.8714	200.0114	301.1292
downin	0834	65.0297	104.4802	265.0320	295.5202
new 2	0836	39.8439	105.1958	239.8446	294.8058
new 3	0839	13.4216	104.8478	213.4218	295.1552
new 4	0841	377.4514	103.4218 ^{sunbed}	177.4513	296.5771
upice	0845	362.7627	101.9613	162.7635	298.0392
gc	0847	0.0100	98.8694	200.0122	301.1303

[ENTERED]

24 August Bill, sunny, umbrella, almost calm, heat waves

gc	1037	0.0100	98.8686	200.0107	301.1305
downin	1040	65.0294	104.4807	265.0291	295.5215
new 2	1042	39.8539	105.1976	239.8543	294.8027
new 3	1045	13.4301	104.8498	213.4300	295.1519
new 4	1047	377.4602	103.4217	177.4619	296.5775
upice	1050	362.7566	101.9588	162.7567	298.0409
gc	1052	0.0060	98.8682	200.0070	301.1297

[ENTERED]

21 August Bill, hot, umbrella, calm, heat waves

bed

gc	1240	0.0100	98.8686	200.0109	301.1293
downice	1243	65.0322	104.4800	265.037	295.5187
new2	1246	39.8646	105.1976	239.8676	294.8034
new3	1248	13.4436	104.8487	213.4414	295.1534
new4	1250	377.4750	103.4232	177.4762	296.5768
upice	1253	362.7618	101.9608	162.7628	298.0386
gc	1255	0.0103	98.8691	200.0116	301.1290

drifted off board

ENTERED

24 August 87 Bill, hot, umbrella blowing away, sunny

gc	1454	0.0100	98.8701	200.0109	301.1290
downice	1457	65.0346	104.4870	265.0336	295.5097
new2	1459	39.8715	105.2001	239.8752	294.7987
new3	1502	13.4550	104.8488	213.4573	295.1515
new4	1504	377.4858	103.4258	177.4838	296.5732
upice	1506	362.7 64 ⁶⁴ 18	101.9618	162.7661	298.0398
gc	1510	0.0105	98.8696	200.0118	301.1310

ENTERED

24 August 87 Bill, warm, umbrella, some breeze, heat waves

gc	1651	0.0100	98.8693	200.0102	301.1302
downice	1654	65.0359	104.4838	265.0376	295.5189
new2	1657	39.8863	105.2008	239. 870 ⁸⁸⁷⁰	294.8002
new3	1700	13.4678	104.8489	213.4696	295.1510
new4	1702	377.4981	103.4264	177.4998	296.5747
upice	1705	362.7620	101.9633	162.7633	298.0357
gc	1707	0.0084	98.8683	200.0086	301.1286

ENTERED

24 August Bill, calm warm, bags, umbrellas

gc	1900	0.0100	98.8700	200.0110	301.1301
downice	1901	65.0384	104.4833	265.0410	295.5172
new2	1904	39.8968	105.1994	239.8978	294.8012
new3	1906	13.4819	104.8472	213.4820	295.1513
new4	1908	377.5121	103.4279	177.5144	296.5726
upice	1911	362.7656	101.9606	162.7666	298.0397
gc	1913	0.0097	98.8705	200.0104	301.1280

[ENTERED]

24 August Bill, calm, sun has set

gc	2103	0.0100	98.8702	200.0116	301.1290
downice	2104	65.0429	104.4756	265.0428	295.5224
new2	2106	39.9102	105.1976	239.9132	294.8020
new3	2108	13.4962	104.8459	213.4980	295.1533
new4	2110	377.5262	103.4261	177.5274	296.5736
upice	2111	362.7689	101.9608	162.7703	298.0386
gc	2113	0.0097	98.8685	200.0113	301.1294

[ENTERED]

25 August Bill . rising sun, clear, heat waves!

gc	0643	0.0100	98.8694	200.0116	301.1298
downice	0646	65.0476	104.4774	265.0490	295.5242
new2	0648	39.9588	105.1965	239.9600	294.8062
new3	0651	13.5530	104.8446	213.5534	295.1546
new4	0653	377.5846	103.4308	177.5858	296.5705
upice	0658	362.7758	101.9642	162.7808	298.0360
gc	NA	NA	NA	NA	NA

I cannot see due to sunglasses

25 August 82 Bill, calm, warm, umbrella, bad heat waves

gc	0844	0.0100	98.87021	200.0106	301.1294
downrise	0847	65.0516	104.4772	265.0539	295.5248
new2	0850	39.9708	105.2002	239.9759	294.80010
new3	0856	13.5681	104.8465	213.5698	295.1532
new4	0858	377.5987	103.4305	177.6000	296.5683
uprise	0901	362.7711	101.9630	162.7814	298.0371
gc	0903	0.0141	98.8629	200.0152	301.1290

EXCLUDED - umbrella road bump trap in middle of new3

25 August 82 Bill, hot, slight breeze, heat waves, umbrella

gc	1100	0.0091	98.8696	200.0166	301.1305
downrise				265.0480	
new2					
new3					
new4					
uprise					
gc					

25 August 87 Bill, slight breeze, hot, heat waves, umbrella

gc	1114	0.0093	98.8697	200.0100	301.1294
downrise	1113	65.0566	104.4834	265.0574	295.5158
new2	1115	39.9828	105.2010	239.9842	294.7978
new3	1117	13.5777	104.8472	213.5792	295.1518
new4	1118	377.6692	103.4329	177.6093	296.5680
uprise	1119	362.7790	101.9624	162.7800	298.0354
gc	1121	0.0107	98.8700	200.0118	301.1308

EXCLUDED

25 Aug 87 Ray, sun, slight haze

gc	1311	0.0100	98.8726	200.0118	301.1300
downice	1315	65.0676	104.4885	265.0669	295.5150
new1	1318	39.9980	105.2014	239.9994	294.7966
new3	1322	13.5958	104.8487	213.5962	295.1540
new4	1325	377.6289	103.4306	177.6284	296.5673
upice	1329	362.7856	101.9628	162.7836	298.0348
gc	1332	0.0124	98.8708	200.0133	301.1300

[ENTERED]

25 Aug 87, Bill, sun,

gc	1539	0.0100	98.8688	200.0109	301.1304
downice	1542	65.0606	104.4850	265.0615	295.5188
new1	1544	40.0081	105.2036	240.0086	294.7961
new3	1546	13.6048	104.8474	213.6044	295.1509
new4	1548	377.6356	103.4336	177.6356	296.5664
upice	1549	362.7790	101.9634	162.7829	298.0350
gc	1551	0.0085	98.8686	200.0101	301.1298

[ENTERED]

25 Aug 87, Bill, sun, umbrella, bugs, heat waves

gc 1723 0.0100 98.8704 200.0100 301.1289

downice 1725 65.0620 104.4807 265.0638 295.5199

new2 1726 40.0131 105.2048 240.0152 294.7952

new3 1729 13.6152 104.8483 213.6158 295.1534

new4 1731 377.6426 103.4325 177.6456 296.5645

upice 1732 362.7800 101.9662 162.7810 298.0342

gc 1734 0.0082 98.8700 200.0088 301.1282

ENTERED

25 Aug 87 Bill, sun behind tent, bugs, calm, heat waves

gc 1920 0.0100 98.8707 200.0092 301.1287

downice 1922 65.0648 104.4834 265.0661 295.5167

new2 1925 40.0249 105.2028 240.0273 294.7977

new3 1927 13.6270 104.8978 213.6288 295.1527

new4 1929 377.6560 103.4361 177.6572 296.5632

upice 1930 362.7802 101.9654 162.7811 298.0340

gc 1932 0.0042 98.8692 200.0053 301.1278

drift away off level, sun on tripod. ENTERED

25 August 87 Bill sun this down, calm, bugs, clear

gc 2102 0.0100 98.8692 200.0108 301.1288

downice 2104 65.0678 104.4780 265.0694 295.5220

new2 2107 40.0375 105.2003 240.0395 294.7989

new3 2109 13.6409 104.8453 213.6394 295.1512

new4 2111 377.6690 103.4330 177.6714 296.5652

upice 2113 362.7867 101.9636 162.7884 298.0351

gc

NA

ENTERED

bumped it
- down bugs

26 August 87 Bill, before sunrise, calm, clear, bugs

dim	→ gc	0612	0.0100	98.8700	200.0114	301.1302
	down	0615	65.0774	104.4767	265.0788	295.5207
	new2	0618	40.0873	105.2040	240.0896	294.7952
	new3	0621	13.6953	104.8459	213.6960	295.1540
	new4	0623	377.7278	103.4368	177.7287	296.5620
	upice	0626	362.7958	101.9636	162.7961	298.0343
	gc	0629	0.0115	98.8685	200.0122	301.1286

ENTERED

good viewing
26 August 1987 Bill, hot, calm, bugs, umbrella,

gc	0902	0.0100	98.8701	200.0108	301.1303
downice	0903	65.0800	104. 4806 104.4806	265.0817	295.5192
new2	0905	40.0998	105.2048	240.1027	294.7957
new3	0907	13.7117	104.8475	213.7120	295.1543
new4	0909	377.7413	103.4388	177.7426	296.5605
upice	0910	362.7960	101.9650	162.7968	298.0352
gc	0912	0.0106	98.8698	200.0116	301.1285

26 August Bill, sun, umbrella, calm, bugs, hot winds

gc	1034	0.0100	98.8703	200.0100	301.1285
downice	1036	65.0812	104.4825	265.0865	295.5167
new2	1039	40.1142	105.2058	240.1145	294.7952
new3	1041	13.7252	104.8471	213.7257	295.1523
new4	1044	377.7550	103.4413	177.7550	296.5529
upice	1052	362.7993	101.9642	162.8018	298.0334
gc	1056	0.0133	98.8700	200.0166	301.1297

ENTERED

26 August Roy. ~~hot~~ sun, slight breeze umbrella

gc	1301	0.0100	98.8688	200.0097	301.1278
downice	1304	65.0907	104.4856	265.0930	295.5160
new2	1306	40.1238	105.2052	240.1251	294.7919
new3	1308	13.7357	104.8483	213.7344	295.1503
new4	1311	377.7679	103.4430	177.7668	296.5551
upice	1313	362.7978	101.9690	162.7972	298.0298
gc	1315	0.0090	98.8710	200.0105	301.1282

ENTERED

26 Aug 87, Bill, Windy, sun, NO BUGS!

gc	1534	0.0102	98.8690	200.0115	301.1283
downice	1536	65.0888	104.5717	265.0888	295.5222
new2	1538	40.1390	105.2063	240.1396	294.7942
new3	1540	13.7510	104.8502	213.7522	295.1529
new4	1542	377.7825	103.4448	177.7826	296.5553
upice	1543	362.8004	101.9704	162.8014	298.0287
gc	1545	0.0115	98.8681	200.0125	301.1296

ENTERED

26 Aug 87, Bill, Windy, Sun

gc	1745	0.0100	98.8690	200.0116	301.1290
downice	1747	65.0886	104.4754	265.0903	295.5238
new2	1749	40.1488	105.2045	240.1490	294.7935
new3	1751	13.7641	104.8482	213.7668	295.1524
new4	1752	377.7952	103.4452	177.7961	296.5540
upice	1754	362.8011	101.9710	162.8026	298.0286
gc	1756	0.0098	98.8696	200.0118	301.1282

ENTERED

Bill, good evening

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26 Aug 87, sundown breeze, bugs

gc	2043	0.0100	98.8696	200.0110	301.1284
downm	2045	65.0934	104.4784	265.0944	295.5218
new2	2046	40.1646	105.2056	240.1654	294.7929
new3	2048	13.7812	104.8451	213.7814	295.1531
new4	2050	377.8136	103.4444	177.8140	296.5543
upice	2051	362.8033	101.9709	162.8042	298.0280
gc	2053	0.0096	98.8704	200.0104	301.1285

ENTERED

27 August 87 Bill, before sunrise, overcast, calm, bugs

dim - gc	0613	0.0100	98.8708	200.0107	301.1281
downm	0616	65.1030	104.4776	265.1040	295.5206
new2	0619	40.2161	105.2072	240.2160	294.7916
new3	0623	13.8394	104.8460	213.8398	295.1532
new4	0625	377.8720	103.4482	177.8726	296.5494
upice	0628	362.8120	101.9708	162.8121	298.0290
gc	0630	0.0103	98.8694	200.0119	301.1289

ENTERED

27 Aug 87 Bill, sunrise (Wow!), overcast, breeze

gc	0815	0.0097	98.8702	200.0100	301.1276
downm	0817	65.1042	104.4752	265.1061	295.5228
new2	0819	40.2271	105.2057	240.2269	294.7912
new3	0821	13.8502	104.8452	213.8498	295.1529
new4	0823	377.8826	103.4492	177.8840	296.5490
upice	0825	362.8120	101.9720	162.8128	298.0263
gc	0826	0.0090	98.8688	200.0110	301.1284

ENTERED

27 Aug 87, Bill, cloudy, breeze

roger	1027	2.0300	102.9041	202.0316	297.0939
downice	1030	65.1054	104.4741	265.1040	295.5260
new2	1032	40.2322	105.2089	240.2346	294.7936
new3	1033	13.8580	104.8466	213.8598	295.1536
new4	1035	377.8894	103.4531	177.8899	296.5475
upice	1037	362.8091	101.9681	162.8108	298.0275
roger	1038	2.0298	102.9047	202.0311	297.0935

[ENTERED]

good viewing

27 August 87, Bill, cloudy, breeze

gc	1234	0.0100	98.8706	200.0110	301.1286
downice	1236	65.1102	104.4882	265.1100	295.5217
new2	1238	40.2483	105.2084	240.2491	294.7922
new3	1240	13.8748	104.8456	213.8762	295.1540
new4	1241	377.9086	103.4525	177.9091	296.5462
upice	1243	362.8154	101.9728	162.8162	298.0267
gc	1244	0.0099	98.8702	200.0105	301.1290

[ENTERED]

27 August 1987, Bill, cloudy, breeze, good vis'

gc	1446	0.0100	98.8705	200.0116	301.1289
downice	1447	65.1137	104.4770	265.1145	295.5221
new2	1449	40.2594	105.2086	240.2606	294.7894
new3	1451	13.8884	104.8456	213.8882	295.1545
new4	1452	377.9210	103.4533	177.9220	296.5450
upice	1454	362.8169	101.9734	162.8180	298.0263
gc	1455	0.0098	98.8703	200.0113	301.1302

[ENTERED]

27 August. Bill, breezy, overcast, wind jitter

gc	1648	0.0100	98.8687	200.0115	301.1310
downico	1650	65.1151	104.4746	265.1169	295.5204
new2	1653	40.2714	105.2074	240.2722	294.7892
new3	1695	13.9015	104.8452	213.9026	295.1533
new4	1658	377.9334	103.4536	177.9330	296.5426
upice	1700	362.8186	101.9749	162.8198	298.0240
gc	1702	0.0102	98.8683	200.0115	301.1285

ENTERED

wind jitter

27 August, Bill, breezy, clearing

gc	1835	0.0100	98.8686	200.0114	301.1293
downico	1837	65.1161	104.4760	265.1178	295.5213
new2	1839	40.2798	105.2085	240.2796	294.7900
new3	1841	13.9125	104.8452	213.9130	295.1548
new4	1842	377.9442	103.4558	177.9446	296.5424
upice	1843	362.8197	101.9750	162.8210	298.0242
gc	1845	0.0103	98.8697	200.0116	301.1282

ENTERED

27 Aug. 1 Bill, hazy, clear air, beautiful sunset.

gc	2046	0.0100	98.8683	200.0118	301.1295
downico	2048	65.1170	104.4769	265.1184	295.5232
new2	2049	40.2898	105.2093	240.2799	294.7898
new3	2051	13.9219	104.8448	213.9244	295.1530
new4	2052	377.9561	103.4568	177.9578	296.5434
upice	2054	362.8210	101.9742	162.8224	298.0233
gc	2055	0.0108	98.8686	200.0112	301.1280

ENTERED

140

28 August 87 Bill, before sunrise, clear sky, humid, breeze gc	0616	0.0100	98.8688	200.0112	301.1288
down	0619	65.1276	104.4765	265.1300	295.5235
new 2	0622	40.3402	105.2084	240.3412	294.7908
new 3	0625	13.9804	104.8448	213.9806	295.1550
new 4	0628	378.0132	103.4555	178.0137	296.5416
uprise	0630	362.8290	101.9720	162.8292	298.0278
gc	0633	0.0098	98.8674	200.0098	301.1310

(ENTERED)

28 August Bill, clear, light breeze. cannot see gc - don't fit by sun new 1	0827	20300	102.9054	202.0305	297.0926
down	0829	65.1218	104.4743	265.1234	295.5242
new 2	0832	40.3424	105.2108	240.3424	294.7905
new 3	0834	13.9827	104.8470	213.9830	295.1541
new 4	0836	378.0176	103.4602	178.0184	296.5403
uprise	0838	362.8228	101.9750	162.8234	298.0265
new 5	0841	2.0301	102.9074	202.0300	297.0923

(ENTERED)

28 Aug 87, Bill, sun, calm, umbrella, bugs gc	1039	0.0100	98.8701	200.0104	301.1297
down	1041	65.1318	104.4779	265.1341	295.5210
new 2	1042	40.3606	105.2128	240.3603	294.7880
n3	1044	14.0030	104.8462	214.0040	295.1516
n4	1045	378.0370	103.4624	178.0385	296.5390
uprise	1047	362.8316	101.9750	162.8344	298.0249
gc	1049	0.0104	98.8722	200.0114	301.1278

(ENTERED)

28 Aug 87, Bill, sun, calm, umbrella features

gc 1237 0.0100 98.8692 200.0109 301.1294

down1 1239 65.1334 104.4784 265.1310 295.5192

new2 1241 40.3702 105.2125 240.3728 294.7859

new3 1242 14.0129 104.8460 214.0144 295.1540

new4 1244 378.0464 103.4624 178.0470 296.5356

upice 1246 362.8326 101.9748 162.8347 298.0232

gc 1247 0.0090 98.8682 200.0112 301.1292

ENTERED

28 Aug 87, Bill, sun, umbrella

gc 1431 0.0100 98.8690 200.0120 301.1306

down1 1433 65.1344 104.4808 265.1360 295.5228

new2 1435 40.3796 105.2122 240.3790 294.7867

new3 1436 14.0242 104.8458 214.0260 295.1527

new4 1438 378.0519 103.4650 178.0584 296.5351

upice 1439 362.8330 101.9738 162.8340 298.0256

gc 1441 0.0087 98.8684 200.0096 301.1283

Comment - diving off level

ENTERED

28 August Bill, sun, breeze, umbrella

gc 1639 0.0100 98.8690 200.0110 301.1288

down 1640 65.1380 104.4810 265.1383 295.5193

new1 1642 40.3908 105.2105 240.3914 294.7876

new3 1643 14.0359 104.8468 214.0382 295.1543

new4 1645 378.0705 103.4623 178.0720 296.5373

upice 1646 362.8355 101.9690 162.8360 298.0278

gc 1648 0.0099 98.8692 200.0110 301.1282

ENTERED

	Bill					
28 August.	sun, calm, umbrella			Bugs.	11	
gc	1845 0.0100	0.0100	98.8707	200.0110	301.1281	
downin	1848	65.1408	104.4804	265.1425	295.5182	
new2	1851	40.4025	105.2133	240.4039	294.7840	
new3	1853	14.0481	104.8465	214.0488	295.1529	
new4	1854	378.0660	103.4650	178.0864	296.5344	
upice	1855	362.8364	101.9778	162.8380	298.0206	
gc	1856	0.0088	98.8694	200.0104	301.1289	

ENTERED

28 August 87, Bill, clear, calm, good viewing

gc 2036 0.0100 98.8684 200.0098 301.1294

down 2038 65.1299 104.4724 265.1422 295.5264

new2 2039 40.4126 105.2120 240.4128 294.7871

new3 2041 14.0481 104.8448 214.0599 295.1540

new4 2042 378.0698 103.4627 178.0974 296.5362

upice 2043 362.8389 101.9723 162.8394 298.0258

gc 2044 0.0100 98.8676 200.0112 301.1292

ENTERED

29 August. P.M. before sunrise, clear except for clouds over mtn peaks

Roger 0620 2.0300 102.9052 202.0306 297.0923

downin 0623 65.1459 104.4712 265.1432 295.5260

new2 0625 40.4569 105.2135 240.4576 294.7859

new3 0628 14.1115 104.8464 214.1114 295.1533

new4 0630 378.1490 103.4672 178.1498 296.5303

upice 0633 362.8395 101.9784 162.8388 298.0200

gc 0635 2.0299 102.9046 202.0306 297.0906

ENTERED

roger gc	29 Aug 87 0856	87 Bill, sun's up 2.0300 102.9056 202.0310 297.0926
dawni	0858	65.1464 104.4694 265.1492 295.5280
new2	0900	40.4686 105.2161 240.4712 294.7856
new3	0901	14.1252 104.8476 214.1264 295.1537
new4	0902	378.1636 103.4706 178.1650 296.5306
upice	0904	362.8399 101.9808 162.8418 298.0202
roger gc	0907	2.0290 102.9075 202.0302 297.0925

comment: roger is a bit hard to see, sun glare.
ENTERED

29 Aug 87	Bill, breeze, sun, umbrella
gc 12:37	0.0100 98.8692 200.0110 301.1300
dawni 12:40	65.1572 104.4744 265.1592 295.5310
new2 12:42	40.4981 105.2146 240.4992 294.7891
new3 12:44	14.1567 104.8460 214.1576 295.1532
new4 12:45	378.1934 103.4734 178.1954 296.5253
upice 12:47	362.8525 101.9772 162.8545 298.0218
gc 12:49	0.0121 98.8688 200.0147 301.1306

bumped tripod on downice

ENTERED

29 Aug, 1987

gc	14:44	0.0100	98.8678	200.0112	301.1277
downi	14:46	65.16249	104.4710	265.1633	295.5299
New 2	14:47	40.5062	105.2138	240.5082	294.7836
New 3	14:49	14.1654	104.8463	214.1658	295.1541
New 4	14:50	378.2039	103.4716	178.2050	296.5276
upice	14:52	362.8519	101.9790	162.8532	298.0181
gc	14:53	0.0099	98.8698	200.0112	301.1290

Bill, sun, cool breeze, umbrella

ENTERED

29 Aug 1987

Windy, ^{light} heat waves
Day, buggy, sun, umbrella, calm.

gc	16:57	0.0100	98.8680	200.0115	301.1285
downi	17:00	65.1687	104.4803	265.1716	295.5328
New 2	17:04	40.5176	105.2168	240.5155	294.7842
New 3	17:06	14.1784	104.8468	214.1785	295.1527
New 4	17:08	378.2164	103.4738	178.2178	296.5287
upice	17:11	362.8511	101.9785	162.8514	298.0202
gc	17:14	0.0058	98.8691	200.0083	301.1270

30 AM August ^{B21} Beautiful sky. Sun not up yet.
Small jet passed through. Mostly clear, breeze now.

gc 0638 0.0100 98.8680 200.0108 301.1286

downi 0641 65.1775 104.4674 265.1771 295.5284

New 2 0643 40.5912 105.2160 240.5918 294.7814

New 3 0646 14.2630 104.8464 214.2630 295.1514

New 4 0648 378.3032 103.4786 178.3040 296.5194

upice 0650 362.8650 101.9834 162.8646 298.0150

gc 0652 0.0094 98.8677 200.0104 301.1274

29 Aug 1987 Bill, calm, sun, umbrella

gc 1844 0.0100 98.8710 200.0106 301.1282

downrise 1846 65.1646 104.4720 265.1666 ~~295.~~ 5284

new2 1847 40.5273 105.2164 240.5272 294.7832

new3 1848 14.1894 104.8470 214.1919 295.1524

new4 1850 378.2282 103.4769 178.~~2298~~²²⁹⁸ 296.5240

uprise 1851 362.8592 101.9836 162.8557 298.0162

gc 1853 0.0085 98.8719 200.0099 301.1280
ENTERED

29 Aug 1987 Bill, calm, sunset

gc 2043 0.0100 98.8692 200.0106 301.1302

downrise 2045 65.1674 104.4726 265.1680 ~~295.~~ 5270

new2 2046 40.5390 105.2153 240.5404 294.7836

new3 2047 14.2044 104.8460 214.2048 295.1527

new4 2049 378.2434 103.4724 178.2438 296.5255

uprise 2050 362.8570 101.9793 162.~~8582~~ 298.0167

gc 2053 0.0112 98.8672 200.0117 301.1313
ON TOWERED

Final EPM readings on flaps

31 August 1000 ± 20 minutes

New 2 2925.596

New 3 2786.514

New 4 2508.367

R:11.

2 min intervals - uncapped

Aug. 29, 1987 - Carol Elkington

Temp. of Water - 72°

date in water - 11:07:00

first bottle taken 11:09:00

bottle #10 - 11:27:00

taken

25 #9

27 #10

29 #11

31 #12

33 #13

35 #14

37 #15

39 #16

41 #17

43 #18

45 #19

47 #20

49 #21

51 #22

53 #23

55 #24

bottle #20 taken

11:47:00

57 #25

59 #26

61 #27

03 #28.

05 #29

5 12:05 - 13

07 #30

bottle #30 taken

12:09:00

31 August 87

Final EDM measurements to flags. Bill, (Mark Womack)
Very wind, man not to able to land.

Moved theodolite inside tent ~ 3 m west of Kadem st
approx angles. *new2 : 40.73 105.00
new3 14.45 104.73
new4 378.53 103.3

new2 0950 - trying to land
2925.596 m.

new3 10:08
2786.514
new4 10:20
2508.367

31 August

Final Abblograph Notes

Height of abblograph stakes at 13:19

E 160 cm

M 166 cm

W 178 cm

Height of abblograph stakes

East: { EE 177
EM 189 snow to ice 118
EW 179 dial 4.74 at 1330

West: { WE 246 - tilted
WM 239 snow to ice 114 cm
WW 224 dial 99.76
at 1345