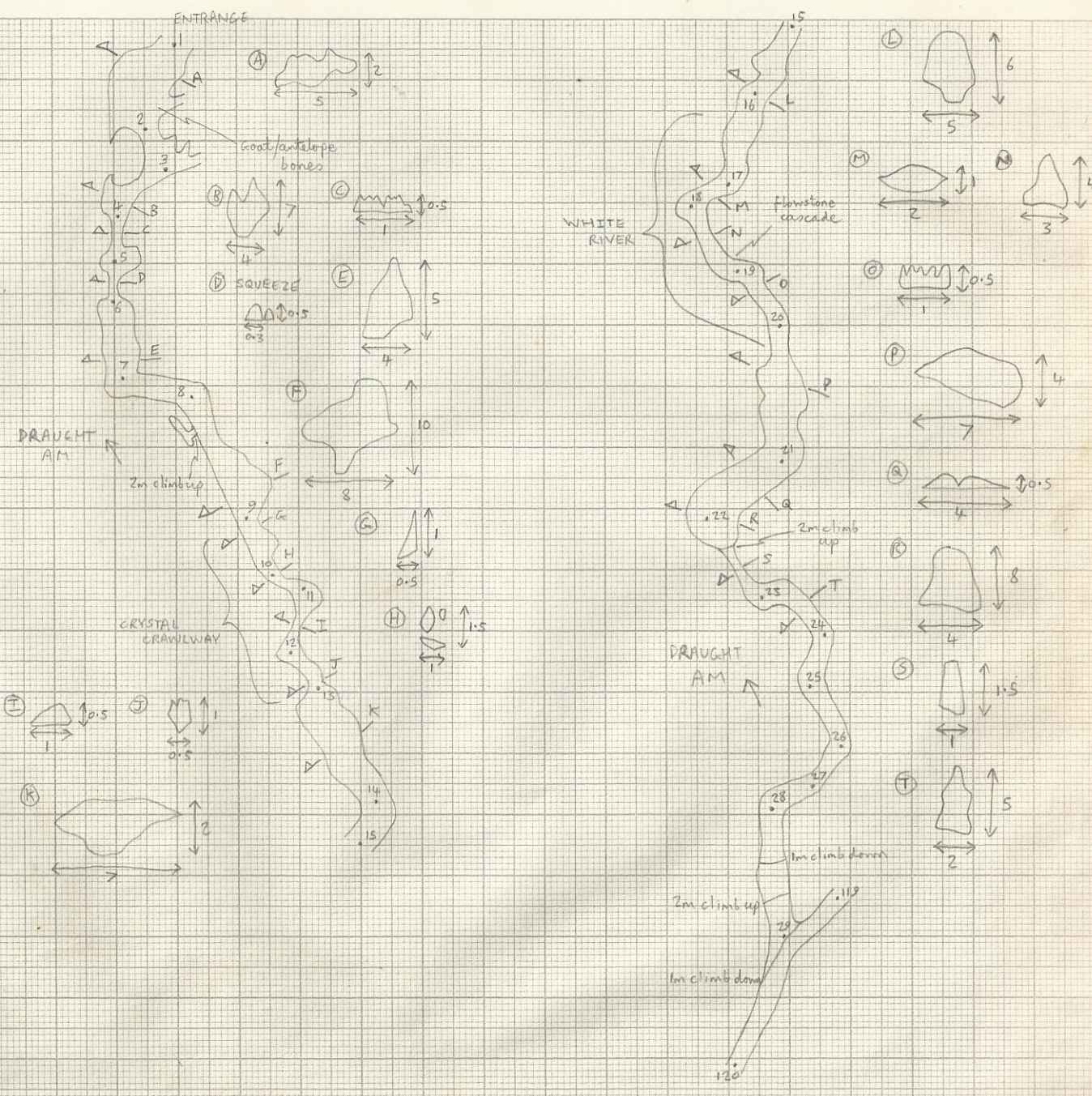


TIGER CAVE

Survey Dear Smad, Oly Stephenson
 Bill Fanning, Stu Nicholson ①
 4/93

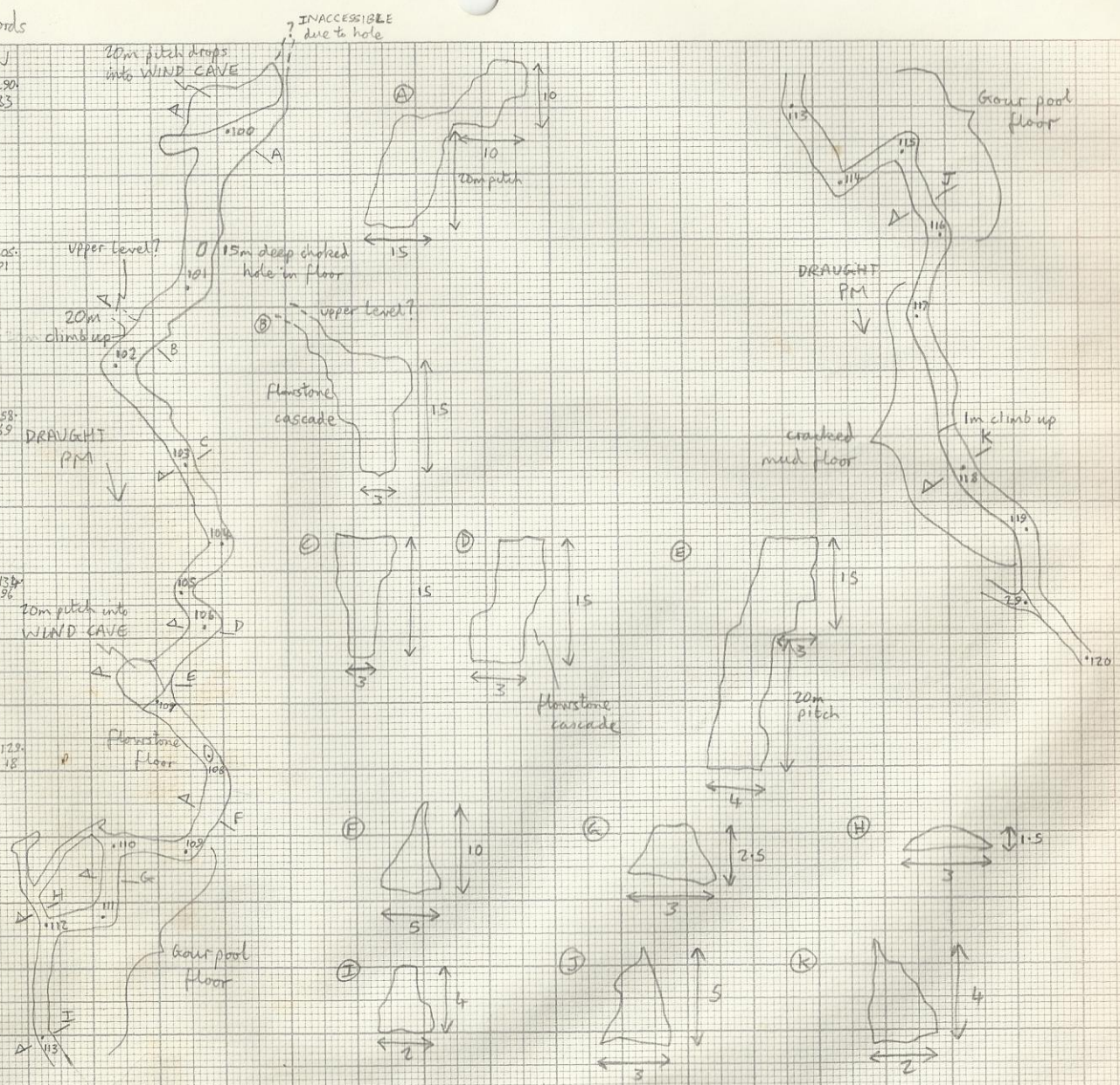
from to	d Mt.	b Bear.	a Cl.	horiz. d.cosa	vert. d.sina	stat.	East h.sina	North h.cosb	coord
1						1	00	00	E N
2	10.5	228	-45	7.42	-7.42	2	-5.51	-4.96	
3	6.1	190	-30	5.28	-3.05	3	-0.92	-5.2	
4	11.4	272	-40	8.73	-7.33	4	-8.72	0.3	
5	6.1	256	/	6.1	/	5	-5.92	-1.48	-21.07 -11.34
6	5.3	224	+5	5.28	0.46	6	-3.67	-3.8	
7	19.3	252	+20	18.14	6.6	7	-17.25	-5.61	
8	13.1	198	+5	13.05	1.14	8	-4.03	-12.41	
9	13.1	186	-30	11.34	-6.55	9	-1.19	-11.28	
10	5.3	164	-5	5.28	-0.46	10	1.46	-5.08	-45.75 -40.52
11	2.6	132	/	2.6	/	11	1.93	-1.74	
12	7	224	/	7	/	12	-4.86	-5.04	
13	3.5	204	+5	3.49	0.31	13	-1.42	-3.19	
14	12.3	165	+20	11.56	4.21	14	2.99	-11.17	
15	7	229	+5	6.97	0.61	15	-5.26	-4.57	-52.37 -75.23
16	14	260	+10	13.79	2.43	16	-13.58	-2.39	
17	23.6	239	+5	23.51	2.06	17	-20.15	-12.11	
18	17.5	308	+5	17.43	1.53	18	-13.74	10.73	
19	11.4	248	-5	11.36	-0.99	19	-10.53	-4.26	
20	9.6	200	+5	9.56	0.84	20	-3.27	-8.98	-113.64 -92.24
21	17.5	217	/	17.5	/	21	-10.53	-13.98	
22	14.9	268	/	14.9	/	22	-14.89	-0.52	
23	15.8	254	/	15.8	/	23	-15.19	-4.36	
24	5.3	201	/	5.3	/	24	-1.9	-4.95	
25	3.5	258	/	3.5	/	25	-3.42	-0.73	-150.57 -116.78
26	8.8	225	+5	8.77	0.77	26	-6.2	-8.2	
27	6.1	274	/	6.1	/	27	-6.1	0.43	
28	6.1	305	/	6.1	/	28	-5.0	3.5	
29	18.4	236	+10	18.12	3.2	29	-15.02	-10.13	-131.89 -17.518



TIGER CAVE.

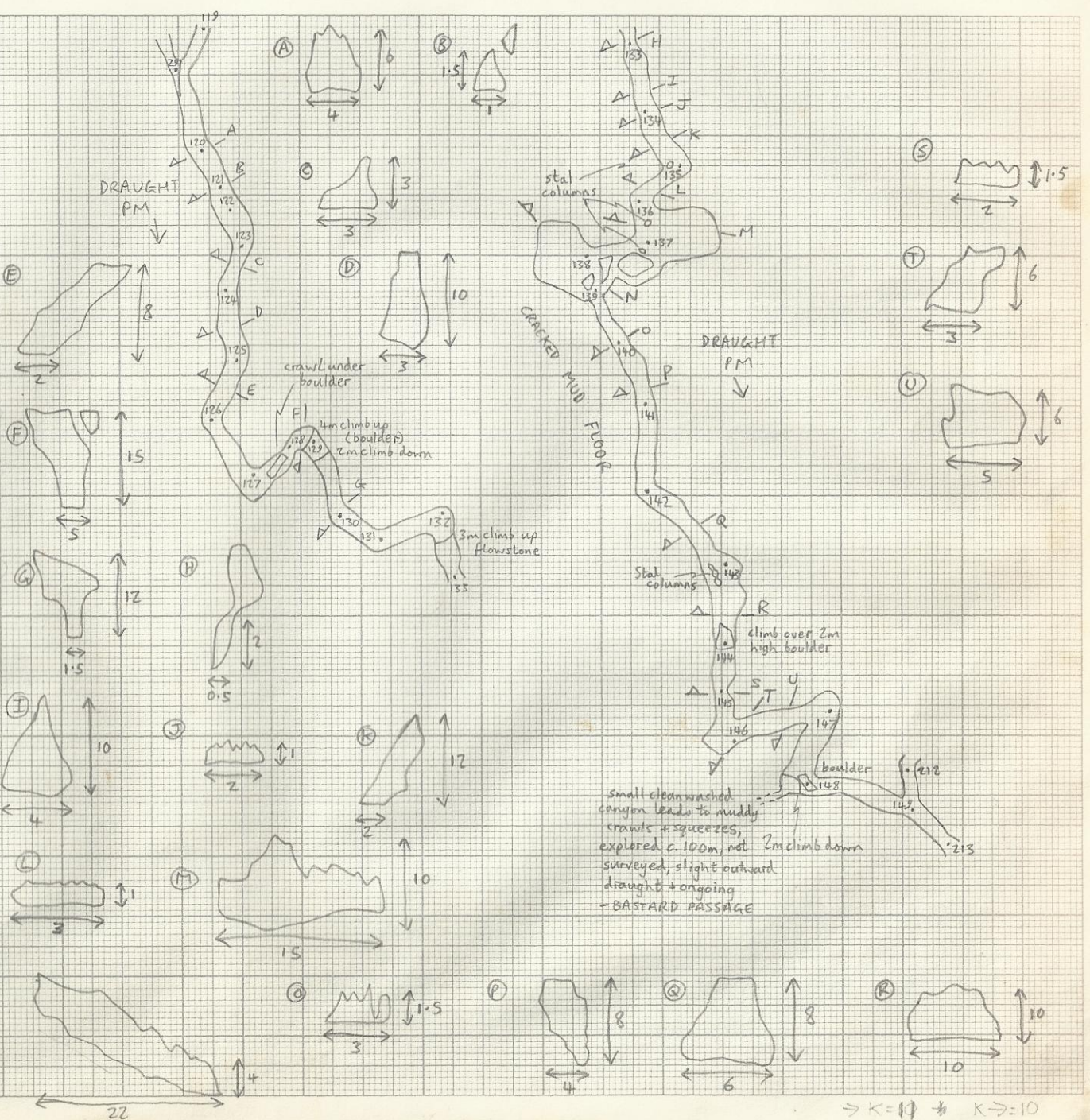
(2)

from to	d mt.	b bear	a clin	horiz. dcos a	vert. dsina	stat	East h sunb	North h cosb	b-180	coords
100	29.8	032	/	29.8	/	100	-15.79	-25.27	212	E N -133.280 87 83
101	39.4	062	/	39.4	/	101	-34.79	-18.50	242	
102	24.5	038	+S	24.4	+2.14	102	-15.03	19.24	218	
103	14.9	008	/	14.9	/	103	-2.07	-14.75	188	
104	11.4	045	/	11.4	/	104	-8.06	-8.06	225	
105	14.9	337	+S	14.84	+1.30	105	5.80	-13.66	157	-58.205 13 01
106	9.6	355	+S	9.56	-0.84	106	0.83	-9.52	175	
107	10.5	227	-20	9.87	-3.59	107	9.44	-2.89	107	
108	14	308	-5	13.95	-1.22	108	10.99	-8.59	128	
109	17.5	048	-5	17.43	-1.53	109	-12.95	-11.66	228	
110	13.1	335	-5	13.05	+1.14	110	5.52	-11.83	155	-72.158 24 69
111	6.1	043	-5	6.08	-0.53	111	-4.15	-4.45	223	
112	28	304	-5	27.89	-2.44	112	23.12	-15.60	124	
113	7.9	280	/	7.9	/	113	7.78	-1.37	100	
114	9.6	175	-5	9.56	-0.84	114	-0.83	9.52	355	-10
115	20.1	261	/	20.1	/	115	19.85	3.14	081	-103.130 68 56
116	17.5	290	-5	17.43	-1.53	116	16.38	-5.96	110	
117	30.6	274	-5	30.68	-2.67	117	30.41	-2.13	094	
118	17.5	259	+S	17.43	+1.53	118	17.11	3.33	079	
29	6.1	313	/	6.1	/	29	4.46	-4.16	133	-129.129 89 18



TIGER CAVE.

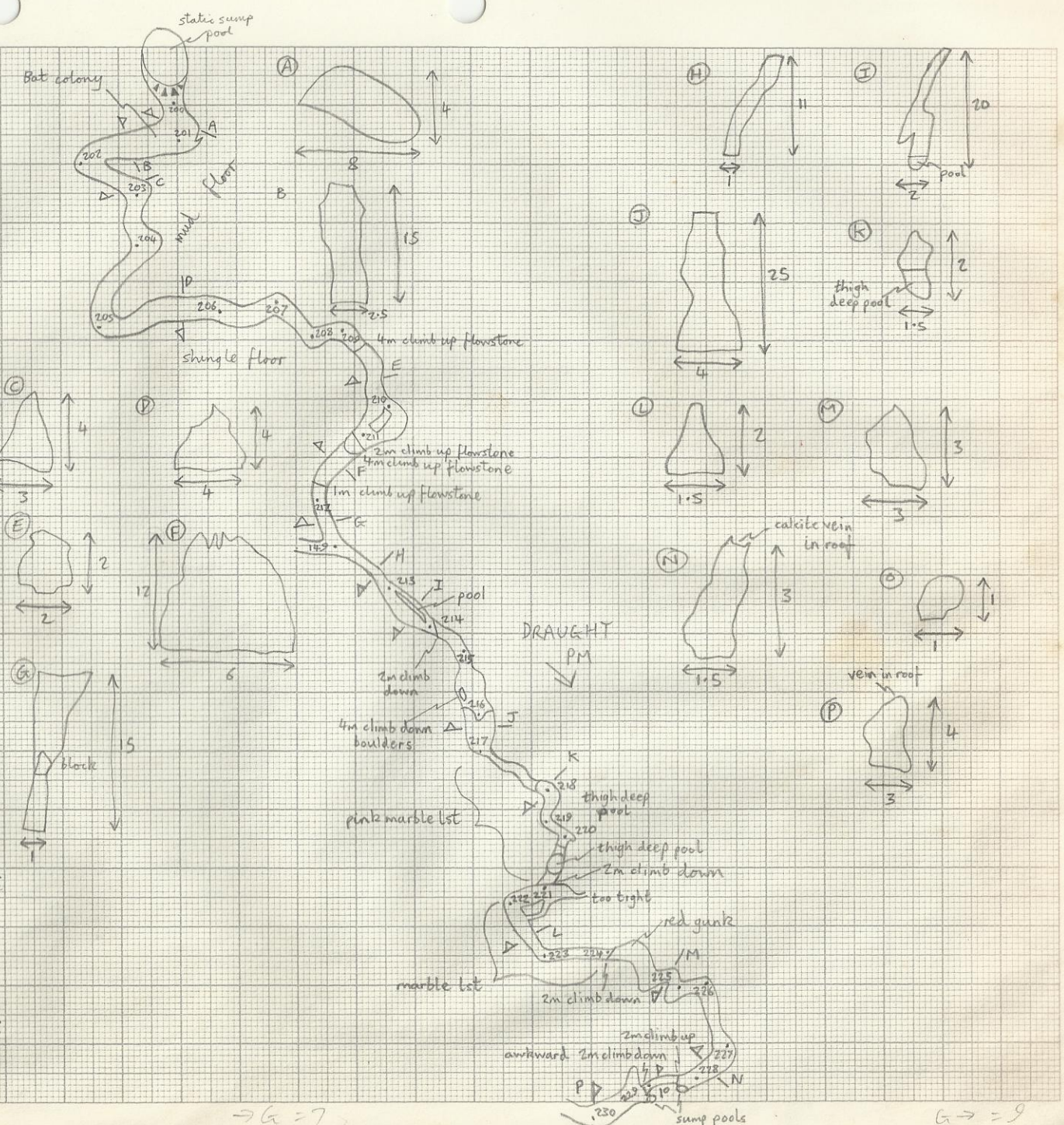
from to	d mt.	b bear	a clin.	horiz dcosa	vert d sina	stat.	East hsub	North hcosb	coord. E N
29						29	-15.02	-10.13	-191.89 -129.18
120	24.5	263	/	24.5	/	120	-24.32	-2.99	
121	21.9	257	-30	18.97	10.95	121	-18.48	-4.27	
122	11.4	249	/	11.4	/	122	-10.64	-4.09	
123	8.8	289	+45	6.22	6.22	123	-5.88	2.03	
124	10.5	299	/	10.5	/	124	-9.18	5.09	
125	21	278	+5	20.92	1.83	125	-20.72	2.91	-341.11 -150.50
126	17.5	319	+5	17.43	1.53	126	-11.44	13.15	
127	21	296	/	21	/	127	-18.87	9.21	
128	20.1	216	/	20.1	/	128	-11.81	-16.26	
129	4.4	226	+75	1.14	4.25	129	-0.82	-0.79	-344.05 -115.00
130	22.8	297	-10	22.45	-3.96	130	-20.00	10.19	
131	15.8	274	/	15.8	/	131	-15.76	1.10	
132	17.5	209	/	17.5	/	132	-8.48	-15.31	
133	8.8	286	+20	8.27	3.01	133	-7.95	2.28	
134	28	286	-5	27.89	-2.44	134	-26.81	7.69	
135	13.1	285	/	13.1	/	135	-12.65	3.39	-415.70 -115.85
136	17.5	352	/	17.5	/	136	-2.44	17.33	
137	9.6	302	/	9.6	/	137	-8.14	5.09	
138	9.6	037	/	9.6	/	138	5.78	7.67	
139	18.4	326	-5	18.33	-1.60	139	-10.25	15.20	
140	10.5	000	/	10.5	/	140	0.00	10.50	-450.75 -60.06
141	23.6	021	+5	23.51	2.06	141	8.43	21.95	
142	23.6	051	/	23.6	/	142	18.34	14.85	
143	23.6	020	/	23.6	/	143	8.07	22.18	
144	28.9	063	+5	28.79	2.52	144	25.65	13.07	
145	18.4	063	-5	18.33	-1.60	145	16.33	8.32	-353.93 -20.31
146	12.3	048	/	12.3	/	146	9.14	8.23	
147	16.6	303	/	16.6	/	147	-13.92	9.04	
148	22.8	069	-5	22.71	-1.99	148	21.20	8.14	
149	19.3	030	-20	18.14	-6.60	149	9.07	15.71	-328.44 51.45



→ K=11 * K→=10

TIGER CAVE

from to	d mt.	b bear	a clin.	h horiz. dcos a	vert. dcos a	stat.	East hcos b	North kcos b	coord. E N
149						149	9.07	15.71	-328.44 61.42
212	11.4	281	/	11.4	/	212	-11.19	2.18	
211	19.3	336	+30	16.71	9.65	211	-6.80	15.27	
210	10.5	011	/	10.5	/	210	2.00	10.31	-344.45 89.19
209	15.8	329	+30	13.68	7.90	209	-7.05	11.73	
208	8.8	240	/	8.8	/	208	-7.62	-4.40	
207	12.3	285	/	12.3	/	207	-11.88	3.18	
206	14.9	245	/	14.9	/	206	-13.50	-6.30	
205	28.9	270	/	28.9	/	205	-28.90	0.0	-413.33 93.4
204	13.1	038	-5	13.05	-1.14	204	8.03	10.28	
203	11.4	000	-5	11.36	-0.99	203	0.00	11.36	
202	15.8	332	/	15.8	/	202	-7.42	13.95	
201	20.1	059	/	20.1	/	201	17.23	10.35	
200	15.8	008	-5	15.74	-1.38	200	2.19	15.59	-393.35 154.95
149						149	9.01	15.71	-328.44 61.42
213	16.6	054	/	16.6	/	213	13.43	9.76	
214	10.5	067	/	10.5	/	214	9.67	4.10	
215	12.3	060	-5	12.25	-1.07	215	10.61	6.13	-294.73 81.42
216	13.1	084	/	13.1	/	216	13.03	1.37	
217	7	105	-45	4.95	-4.95	217	4.78	-1.28	
218	10.5	015	/	10.5	/	218	2.72	10.14	
219	8.8	080	/	8.8	/	219	8.67	1.53	
220	4.4	046	/	4.4	/	220	3.17	3.06	-262.36 96.24
221	9.6	084	/	9.6	/	221	9.55	1.00	
222	5.3	150	-5	5.28	0.46	222	2.64	-4.57	
223	14.9	074	/	14.9	/	223	14.32	4.11	
224	18.4	002	/	18.4	/	224	0.64	18.39	
225	15.8	060	-5	15.74	-1.38	225	13.63	7.87	-221.58 125.04
226	7.9	016	/	7.9	/	226	2.18	7.59	
227	14	053	/	14	/	227	11.18	8.43	
228	14.9	080	/	14.9	/	228	14.67	2.59	
229	8.8	102	+10	8.67	1.53	229	8.48	-1.80	
230	4.4	070	-10	4.33	-0.76	230	4.07	1.48	-131.00 141.33

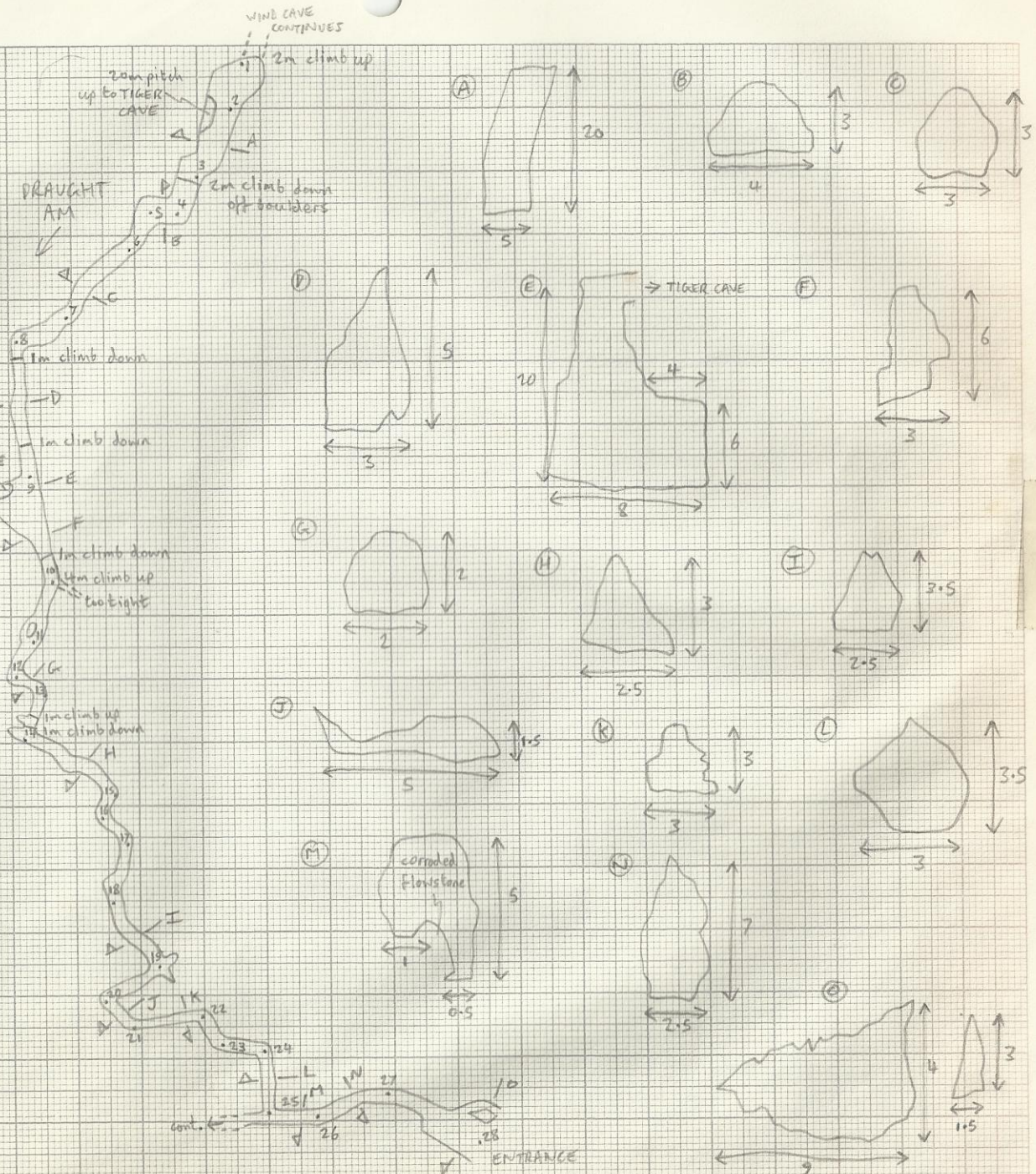


→ G = 7

G → = 9

WIND CAVE PITCHES TO ENTRANCE.

front	d	b	a	h	horiz	vert	stat	East	North	Coord
to	ME.	BEAR	DIN	DIOSA	DSINA			hsin b	hcos b	E N
28							28	0.0	0.0	189.06 -0.069 (185.180 -180.89)
27	15	216	✓	15	✓	27	-8.82	-12.14		
26	13.5	194	✓	13.5	✓	26	-3.27	-13.10		
25	7.5	259	✓	7.5	✓	25	-7.36	-1.43	186.97 -25.97 (171.57 -206.15)	
24	20.3	239	✓	20.3	✓	24	-19.19	6.61		
23	11.3	232	✓	11.3	✓	23	-8.90	-6.96		
22	9.8	279	+S	9.76	0.85	22	-9.64	1.53		
21	14.3	271	✓	14.3	✓	21	-14.30	0.25		
20	4.5	322	✓	4.5	✓	20	-2.77	3.55	127.58 -25.58 (-69.18 -206.15)	
19	15.8	018	✓	15.8	✓	19	4.88	15.03		
18	28.5	264	✓	28.5	✓	18	-28.34	-2.98		
17	15	309	✓	15	✓	17	-11.66	9.44		
16	6.8	262	✓	6.8	✓	16	-6.73	-0.95		
15	6	340	✓	6	✓	15	-2.05	5.64	82.36 -1.84 (-17.54 -182.04)	
14	18	246	+S	17.93	1.57	14	-16.38	-7.29		
13	9.8	003	✓	9.8	✓	13	0.51	9.79		
12	6.8	276	✓	6.8	✓	12	-6.76	0.71		
11	13.5	291	✓	13.5	✓	11	-12.60	4.84		
10	29.3	264	✓	29.3	✓	10	-29.14	-3.06		
9	18.8	242	+S	18.73	1.64	9	-16.54	-8.79	00.00 (-65.180 -1.4.7)	
8	78.8	228	+S	78.50	6.87	8	-58.34	-52.53		
7	10.5	236	✓	10.5	✓	7	-10.09	2.89		
6	33	210	✓	33	✓	6	-16.50	-28.58		
5	8.3	141	✓	8.3	✓	5	5.22	-6.45	79.71 -84.67 (-146.11 -264.87)	
4	12.8	182	✓	12.8	✓	4	-0.45	-12.79		
3	9.8	098	+10	9.65	1.70	3	9.56	-1.34		
2	18.8	094	-5	18.73	-1.64	2	18.68	-131		
1	6.8	088	-5	6.77	-0.59	1	6.77	0.24	-45.15 -99.87 (-110.55 -180.107)	

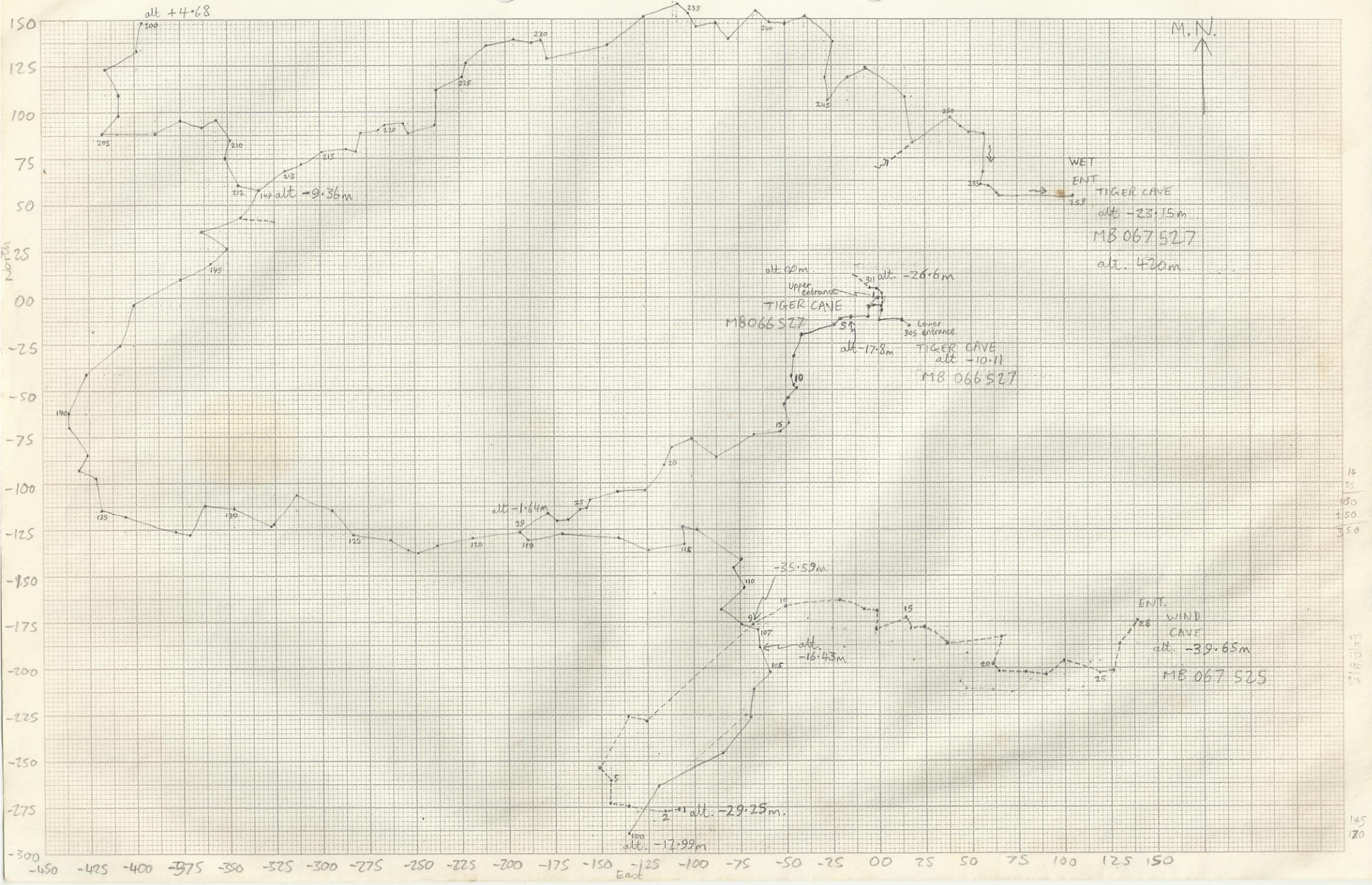


TIGER CAVE - WIND CAVE

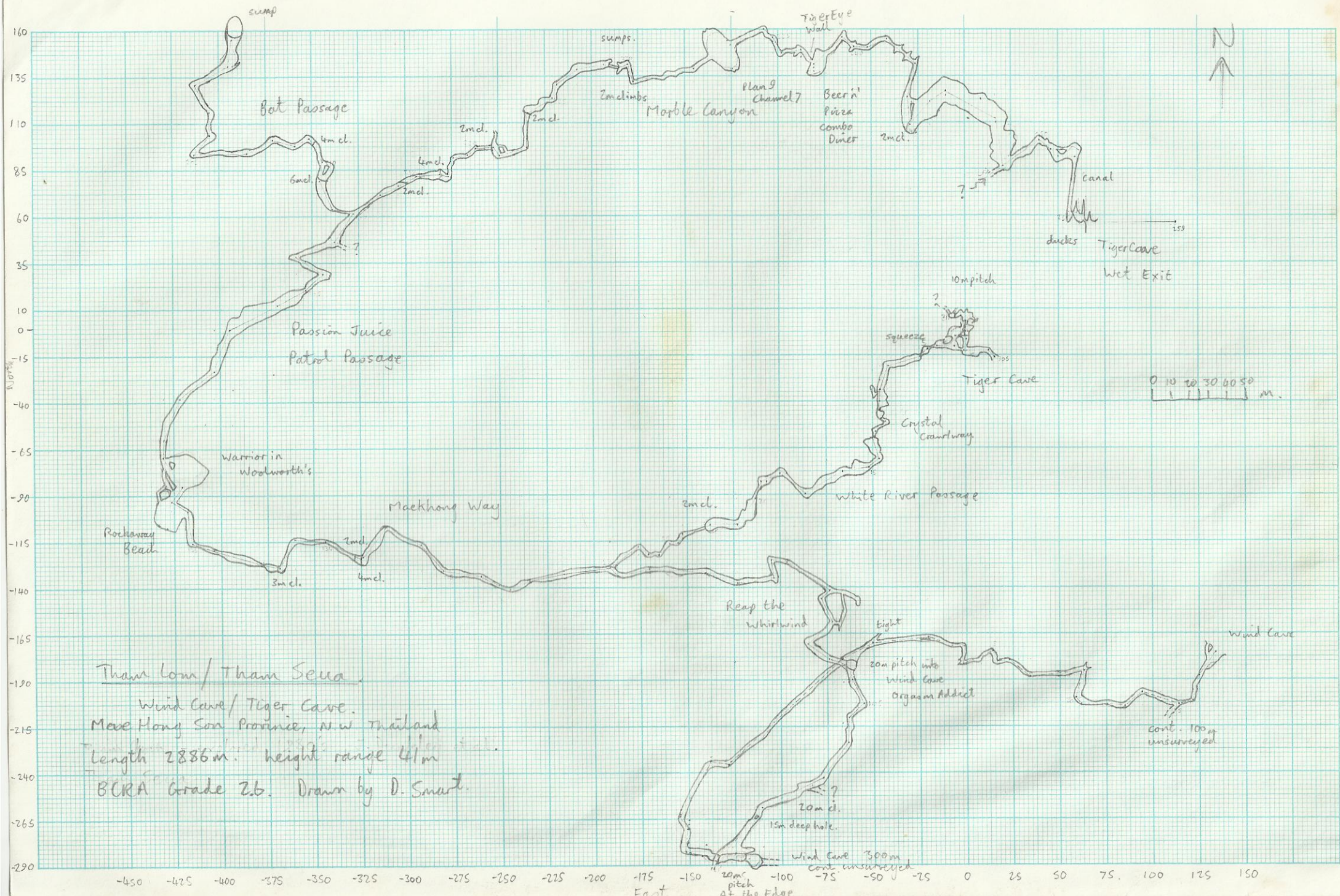
TIGER CAVE ONLY

Horizontal length - 2016.28 m.
 Total Length - 2062.2 m.
 height range - -39.65m \Rightarrow +4.68m = 44.33m

Entrance coordinates from 1:50000 map "BAN HVAI PHA"
 edition 2-RTSD series L7017 sheet 4647N



Tiger/Wind Cave.



Tham Lon / Tham Sua
 Wind Cave / Tiger Cave.
 Mae Hong Son Province, N.W. Thailand
 Length 2886m. height range 41m
 BCRA Grade 2b. Drawn by D. Smart.