Ref:	Report Date	Club:	Hours:	Name of Cave / Feature:	Visit Date:	Cave No:
	16-2-1999	*VSA*	*1*	***Carmichael Cave.***	*5-11-1998*	***3SW-3***

Names in Party (Author, Leader):
Ken Grimes, Reto Zollinger.

If no number, tick reason
New Cave [ ]
Unidentified Old Cave [ ]
Can't tell which: [ ]

Purpose and result of visit:
Photographing & collecting additional info on Sand Speleothems.
Fixing minor details of map (added a long-profile).

Area Name:
SW (Loch Ard Gorge)

Type of feature (if not Cave):

Comments/recommendations (if any):
1: Good examples of sand speleothems = shelves and pendant forms beneath them. Also some small loose forms that would have been sitting in the sand have been washed out and accumulated in a pebble bed amongst the rocks near the entrance. See Baker (1942) for an early description of these, and I have a paper in preparation for Helictite journal.
2: Damage = Some graffiti, minor rubbish. Extensive abrasion of and incision into the rock surfaces over the rubble approaches to the cave entrance by foot traffic.
3: Map is now finished (see back hereof)

Description:
The cave is 60m long and typically has about 3-4m of headroom - see map herewith. There is daylight right to the end. The floor is rubble near the entrance, and sand further in, it slopes upwards at about 6 degrees to the back.. There is a shelf of cemented sand along much of the west wall, about 0.5m above the present floor. The top of this is coated by flowstone, and there are draperies on the wall above. Only a few active drips here. A smaller sand shelf on the east wall has some pendant sand "stalactites" beneath it.
There were a couple of small piles of fresh guano and one freshly-dead bat (Miniopterus sp) which I took home for identification by the book. The dried carcase was later given to Belinda Cardinal (Museum Victoria) for use in her study of DNA in bats.

Topo Sheet:	Scale:	Best Grid co-ords:	Parish/Hundred:	Allotment:
	1:			

How to get there:
Loch Ard Gorge is a major tourist site on Great Ocean Road. Cave is on west side of gorge and is only accessible at mid to low tide (and in calm weather).

Equipment:
Standard horizontal. Lights not needed.

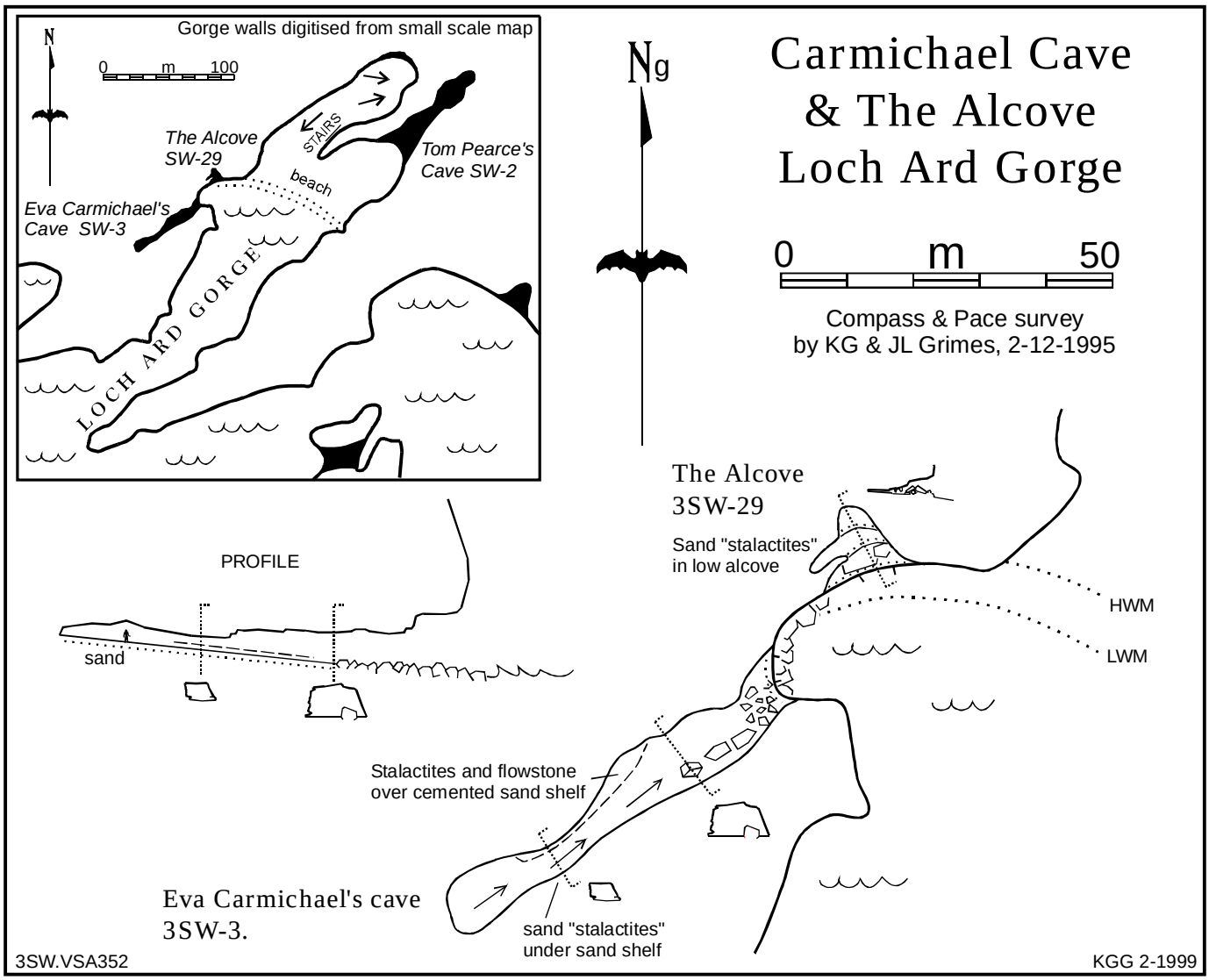
Tick the boxes for selected headings, then write about each in sequence, using the correct numbers and headings.

4 Cave type	[X]	24 Hazards	[X]	38 Air temperature	[ ]	Geol. Strata names	[ ]
5 Rock type	[X]	25 Difficulties	[ ]	39 Humidity	[ ]	Dip & Strike	[ ]
6 Other entr numbers	[ ]	26 Degree explored	[ ]	40 Moisture level	[ ]	Main stream flow	[ ]
7 Total entrs	[X]	27 Prospects	[ ]	41 Discoverer & date	[ ]	Inflow & Outflow points	[ ]
8 Entr type	[X]	28 Owner category	[ ]	42 Extension discov.	[ ]	Water composition	[ ]
9 Development	[X]	29 Present Cave Use	[ ]	44 Contents	[X]	Gases	[ ]
10 Decoration	[X]	30 Present surface use	[ ]	45 Species	[X]	Likely archeol. Site?	[ ]
11,12 Length & method	[X]	31 Damage	[X]	46 Important for	[ ]	Age of archeol. material	[ ]
13-14 Vert Range/method	[X]	32 Management class	[ ]	47 References	[X]	Age of paleontol. Material	[ ]
15 Largest chamber	[ ]	33 Protection	[ ]	Entr Doline size	[ ]	Peak tourist count / day	[ ]
16 Pitches	[ ]	34 Permission from	[ ]	Watersheds	[ ]	Yearly tourist count	[ ]
17 Horizontal Extent	[ ]	35 % mapped	[X]	No. Of levels	[ ]	Conservation rating	[ ]
18,19 Latitude & Longitude	[ ]	36 Widest Map	[X]	Accidents	[ ]	Best area map	[ ]
23 Entr elevation	[ ]	37 Entrance Marker	[ ]	Rescue comments	[ ]	2 bearings & distances	[ ]

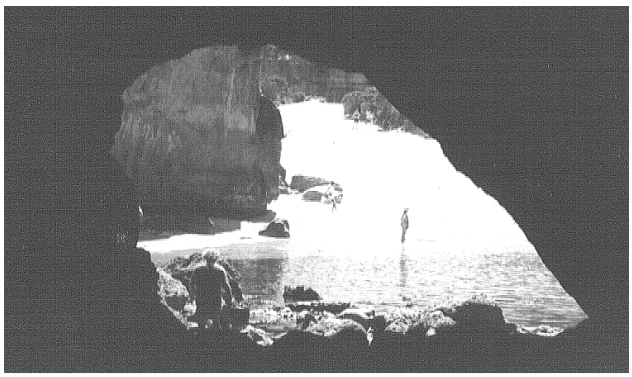
4: Type: *= Limestone cave + sea cave*
5: Rock *= Porous marine calcarenite (Port Campbell Limestone)*
7: Tot Entrs *= 1*
8: Entr Type *= Cave type, dry.*
9: Dev *= Simple horizontal passage.*
10: Decs *= some moderate decs, some unusual decs.*
11:Length *= 60m, +/- 1m, surveyed.*
13:Vert *= 8m, +/- 1m, est in cave.*
24: Haz *= waves and tides.*
31: Dmg *= minor marking & rubbish, extensive abrasive wear on entrance track.*
35: %Map *= 100% mapped*
36: Map *= 3SW.VSA352, on back of this sheet.*
44: Contents *= Occasional bats, occasional birds (penguin).*
45: Species *= Miniopterus sp. (KGG from dead specimen).*

47: Ref = BAKER, G., 1942: Sand Stalagmites. *Journal of Geology.* **50** (6), 662-667.
GRIMES, KG, in press: Sand Speleothems: an Australian example. *Helictite*, **36**, (in press).

Tick when transferred to Cave Summary [ ]



Entrance of Carmichael Cave.



Stereopair of sand "stalactites" beneath a cemented sand shelf.