

CAVE EXPLORATION GROUP (SOUTH AUSTRALIA)

NEWSLETTER

OCTOBER - DECEMBER 1960.

CORRESPONDENCE:

Amongst items of correspondence that have come to hand recently, the following are of particular interest. The T.C.C. Bulletin No 4 has been published and features excellently printed copies of the Cave Maps produced by a Team containing C.E.G Members at the Field Trips of the second A.S.F Conference in Hobart. Despite considerable reductions being necessary the maps of the Honeycomb System and Pillingers Cave have come out remarkably well.

Articles on the exploits of the various Parties on these trips are included, and some of these have been immortalised in verse. C.E.G.(S.A) stars in the "CEGSA Saga", which starts,

'Hast ever heard of the CEGSA Boys that hail from Adelaide,
the cave-surveying CEGSA Boys that don't drink lemonade?'

and works down in 'Ten Little Nigger Boys' style to...

'Four little CEGSA Boys out upon a spree,
One demolished all the rum & then there were three'.

Guess Who? The Secretary will take orders for extra copies, which are expected to arrive soon.

The group regularly receives Newsletters from S.U.S.S.; S.S.S.; T.C.C.; Uni of N.S.W.S.S.; and many of the other Australian Societies, and these may be borrowed from the Librarian.

MEETINGS:

At a recent meeting, two major items of business were concluded. Firstly, Fred Sanders was elected to the Committee, to fill the position vacated by Dave Lanyon, who is now working in the Northern Territory. We are very pleased to have Fred on the Committee, as we are sure he will make a valuable contribution to its work. Secondly, at the same Meeting, the revised list of By-Laws was passed, and the re-issue of these is enclosed with this Newsletter.

PHOTOGRAPHIC COMPETITION:

The Annual Photographic Competition is in the capable hands of Peter Aitken this year. As an inspiration to intending competitors, a fabulously expensive prize, to be presented at the Caveman's Dinner, will be given for the best Caving photograph. A number of sections will give everybody a chance. These are....

- Section A. Best Caving photograph.
- Section B. Best photo of Formation.
- Section C. Most humorous photograph.
- Section D. Best study of a CEGSA personality.

One photograph may be entered in more than one Section, but can only win one prize. Entries should be marked with the competition name and the Section or Sections in which they are entered, and lodged with Peter Aitken not later than November 8th. An experienced non-member will judge the entries and results will be announced on November 23rd. The photograph for the Christmas Card will be chosen from suitable entries on November 8th.

ANNUAL DINNER:

This is the most-looked-forward-to event of the year, at which all leather medals and sundry other distinctions are conferred upon deserving Members. Our distinguished President, Mr Hill, is running this Ding, but the date is not yet finalised. Let Alan know which date you prefer ... Friday 16th or Saturday 17th December. The Dinner will commence at 6.30 pm, and will cost about 25/-. If you are undecided whether to attend, just ask anyone who went last year (if they can remember). The venue will be the traditional Rigoni's Restaurant, Moonta St, City, where the food is good and the music intimate.

[the rest of this page was originally page-3]

TRIPS:

1. If you are interested in any Trip, the Trip Leader should be notified at least seven (7) days in advance.
2. If your name is on a Trip list and you are unable to attend, the Trip Leader must be notified immediately.
3. Trip fees are payable during the trip, not after.

CONTACT LIST:

PRESIDENT: A.L.Hill, Phone Work, W.2541.
SECRETARY: R.T.Sexton, Phone Home, F.5356. Work, FA.1134.

SEARCH AND RESCUE:

A Jackson, 10 Edward St, Norwood, Phone Work, LX.372.

All Correspondence to:-

The Honorary Secretary,
Cave Exploration Group (S.A)
South Australian Museum,
ADELAIDE, S.A.

PROGRAMME

OCTOBER - DECEMBER 1960.

7th - 10th OCT.	Trip.	Flinders Ranges. Leave Friday Night. Leader: V Linke. Phone Home. 46.3105
11th OCT TUESDAY	8 pm	Museum Lecture Room. Speaker: P Aitken. Nullarbor Trip, '59-60
18th OCT. (Tues)	8 pm	Committee Meeting.
26th OCT. WEDNESDAY	8 pm	General Meeting and Members Slides. National Fitness Rooms, South Tce.
29th - 30th OCT.	Trip.	Marne Valley (Bushwalk). Leave Saturday Leader: F Sanders. Phone Home, UM 3899.
8th NOV. TUESDAY	8 pm	Museum Lecture Room Speaker: A Hill. Selection of Christmas Card Photo.
15th NOV. (Tues)	8 pm	Committee Meeting.
23rd NOV. WEDNESDAY	8 pm	General Meeting and Members Slides. National Fitness Rooms, South Tce.
9th - 11th DEC.	Trip.	Marcollat Area. Leave Friday Night. Leader. P Aitken. Phone Work, W.3381
13th DEC. TUESDAY.	8 pm	Museum Lecture Room. Speaker: V Linke. Photography.
16th or 17th DEC.	6.30 pm	CAVEMAN'S DINNER at Rigoni's Details from Alan Hill. Phone Work W.2541.
20th DEC. (Tues.)	8 pm	Committee Meeting.
XMAS BREAK.	Trip.	Possible Trip to Yorke Peninsula. Leader: R Sexton. Phone Home, F.5356.

AUSTRALIAN SPELEOLOGICAL FEDERATION
SUGGESTED CAVE SURVEY STANDARDS

INTRODUCTION

Cave surveying does not lend itself to standardisation. Working conditions, instruments and time available, and the caves themselves vary so much that there can be few fixed rules as to field survey procedure. Nevertheless there is certain information which should appear on all maps and there are several other features, notably scales, grading and symbols which if standardised would lead to a more satisfactory comparison of cave surveys carried out in various parts of Australia, and would make them easier to read. The following recommendations are aimed at encouraging some uniformity without unduly restricting the originality of the surveyor.

No attempt has been made to outline geological symbols, or such specialised branches of cave survey as archeological plans, or illustrations for publication purposes.

1. SCALE

The scale may be expressed in writing (e.g. 20 feet to 1 inch or 1"=20') or as a representative fraction (R.F.), ie the proportion of the map to the actual cave. (e.g. R.P. 1:240) Where the drawing is to be reduced or enlarged for reproduction, a drawn scale should be substituted for the written scale.



Both English and Metric scales can be drawn for comparison.
It is recommended that the following scales be adhered to:-

- (a) 20 feet to 1 inch (1:240) for all general survey work.
- (b) 50 feet to 1 inch (1:600) for large caverns with no details that cannot be satisfactorily represented at this scale; or where the grade of survey does not warrant a larger scale.
- (c) 100 feet to 1 inch (1:1200) for location maps, or for general surface maps where the outline of the cave only is needed for correlation with surface features or other caves.

2. SURVEY GRADING

Where applicable, a survey grading should be shown as an immediate indication of the accuracy that can be expected of the map. In addition, the instruments used and any other relevant data, e.g. the surveying working conditions, may be noted. The Cave Research Group of Great Britain (C.R.G.) system of grading based on the instruments used as given below is recommended.

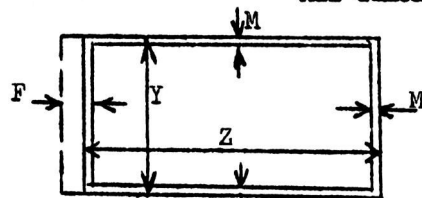
- Grade 1. Rough diagram from memory; not to scale.
- Grade 2. Sketch plan, roughly to scale; no instruments used; directions and distances estimated,
- Grade 3. Rough plan survey; small pocket compass graduated to ten degrees; lengths by marked cord or stick of known length.
- Grade 4. Prismatic compass graduated in single degrees (compass error not known); measuring tape or marked cord.
- Grade 5. Calibrated prismatic compass, clinometer; metallic or steel tape; bearings to the nearest degree.
- Grade 6. Calibrated prismatic compass and clinometer on tripods, or miners dial; chain or steel tape.
- Grade 7. Theodolite for bearings and slopes; distances by steel tape or chain, or by tacheometry; or by any more accurate method.

3. DRAWING SHEET SIZES

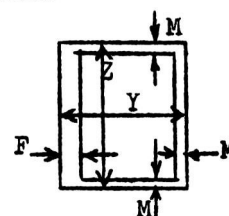
The shape and extent of a cave frequently governs the drawing sheet size, but the following sizes are recommended as they may be conveniently cut from standard rolls of drawing and dyeline papers.

Sheet size designation	Overall dimensions		Margin	Filing strip
	Z	Y	M	F
A	54	38	$\frac{1}{8}$	$1\frac{1}{2}$
B	38	27	$\frac{1}{8}$	$1\frac{1}{2}$
C	27	19	$\frac{1}{8}$	$1\frac{1}{2}$
D	19	$13\frac{1}{2}$	$\frac{1}{4}$	$1\frac{1}{2}$
P (foolscap)	$13\frac{1}{2}$	$8\frac{1}{4}$	$\frac{1}{4}$	1
Q (quarto)	10	8	$\frac{1}{4}$	1

All dimensions in inches



Sizes A, B, C, D



Sizes P, Q.

4. SYMBOLS

The object in producing a map is to render possible the clear and accurate visualisation of the object mapped and in general the actual outline of the features should be shown. There are many commonly occurring objects which may well be shown in shorthand by a stylised symbol, however these should resemble the actual feature represented for ease of recognition. Selection of the symbol will be guided by the scale and purpose of the map and also by its simplicity and ease of execution. A note appended may further clarify the meaning. The following list shows the most common and best established symbols which should not be changed unless absolutely necessary, although the requirements of the cave may necessitate slight modifications.

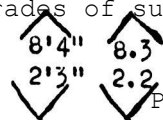
Fixed survey station which can be relocated



R, L. 106

NB Various forms of this symbol may be used on the one map for varying grades of survey.

Height floor to roof



Depth of water

Conjectural outline

Vertical cavity upwards

Vertical cavity downwards

One passage superimposed on another. (lower one dotted)

Vertical change in floor level

Running water and arrow showing the direction of flow.

Current mark

Rocks on floor

Rounded pebbles or stones

Sand

Earth or clay

Flowstone floor

Stalagmites with flowstone surround.

Pools or lakes

Water without air surface in (a) pools (b) streams

Limit of daylight under most favourable conditions

Roots in situ

Guano

Vegetable debris

Terraced flowstone

(a) with water

(b) without water

Stalactites

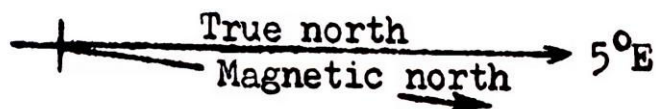
Calcite columns floor to roof.

Note: In cross hatching sections for emphasis of outline, care should be taken that these cannot be confused with bedding or other geological details. Symbols for small scale surface maps should be in accordance with "Standard Topographical Map Symbols" of the National Mapping Council of Australia, February 1953.

5. INFORMATION TO BE RECORDED ON THE FINAL MAP

The following points should be noted on the drawing to give the data necessary for its interpretation.

1. (a) The name of the cave and the caving area or zone. (e.g. Growling Swallet, Maydena)
- (b) A location map or other data relating to well defined and recognisable features such that with reasonable bushcraft, the cave may be found. The latitude and longitude if accurately determined, or the national Grid reference, may be recorded.
- (c) The cave number if such a system is operating.
2. (a) The names of the surveyors and draftsmen.
- (b) The date of the surveys.
3. (a) A north point on which both true and magnetic north should be shown. If only one of these is available, it should be labelled accordingly.



- (b) The datum for levels, and the origin point, for the grid coordinates. It should be stated whether these tie onto an existing control, or if chosen arbitrarily. The grid should be shown overlying the plan, but if there is any tendency to cluttering the drawings these may be merely shown along the margins as return lines.

Note: In giving coordinate references, the west-east then south-north figures should be given. (e.g. W-E 106, S-N 268, giving 106268 as the grid reference)

- (c) The traverse line may be shown on the map in red ink or pencil to distinguish it from other lines, but may be omitted if the station points are of a temporary nature. All permanent marks must be located and their level recorded on the plan, to permit tying in later surveys. A description of the mark itself should be appended to facilitate re-finding it.
4. (a) A legend showing all symbols used.
- (b) The scale, either drawn or written ... see section 1.
- (c) The survey grading and/or instruments ... see section 2.

R.T.Sexton
 Convener, Mapping Subcommittee
 December 1960.