
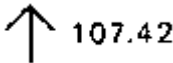







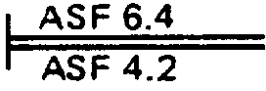




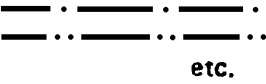
ASF Cave Survey and Map Standards

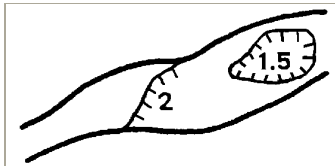

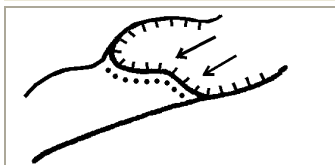

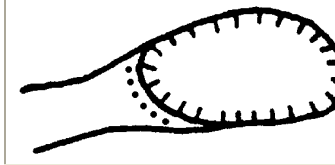

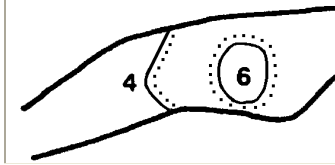



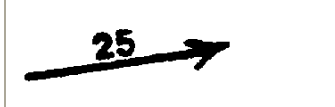

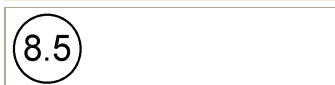
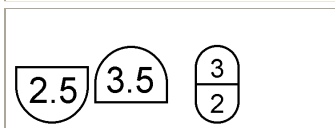
Table 1: Map Symbols

Revised April, 1999, to provide partial conformity with UIS International Cave Symbols

1. SURVEY STATIONS			
Ref.	Map symbol	Profile view (where appropriate)	Description
1.1			Horizontal datum point. (permanently marked control station with fixed co-ordinates)
1.2			Vertical datum point with altitude.
1.3			Combined horizontal and vertical datum point.
1.4			Permanently marked survey station.
1.5			Unmarked (but relocatable) survey station.
1.6			Unmarked natural feature used as a survey station. (Described in survey abstract)

2. SPECIAL LINES			
Ref.	Map symbol	Profile view (where appropriate)	Description
2.1			Section line showing direction of view and reference letter.
2.2a			Change of survey grade

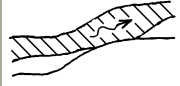


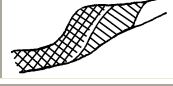


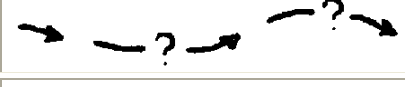
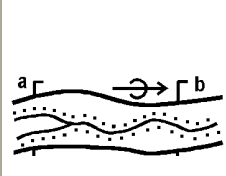
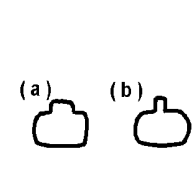
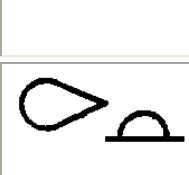
3. OUTLINES			
Ref.	Map symbol	Profile view (where appropriate)	Description
3.1			Outline. (Various thicknesses may be used for different sections, or levels). The outline should be heavier than all other lines.
3.2			Conjectural outline.
3.3			Outlines at significantly different levels or displaced from section plane.



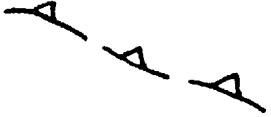

1.4 CHANGES OF LEVEL OR SLOPE			
Ref.	Map symbol	Profile view (where appropriate)	Description
4.1			Vertical change of floor level (cliff or pit), with height. <i>Symbol (tics) on lower side</i>
4.2			Discontinued (gradual change in slope of floor)
4.3 NEW			Horizontal entrance or pit (doline) at surface. Side sloping to passage. <i>(differs from UIS)</i>
4.4 NEW			Vertical entrance or pit (doline) at surface. Vertical or near-vertical walls. <i>(differs from UIS)</i>
4.5			Vertical change in roof level, (step or blind shaft), with height. Dots on lower side. <i>(differs from UIS)</i>
4.6			Discontinued (Gradual change in slope of roof)
4.7			Connecting shaft between levels.
4.8			Direction of downward slope of floor with (optional) gradient in degrees.
4.9			Direction of downward slope of roof with (optional) gradient in degrees.
4.10 NEW			Height from floor to roof, NEW UIS symbol
4.11 NEW			Depth of water; Air space above water; and combined water depth and air space. NEW <i>(not catered for in UIS, this is based on USA usage)</i>














1.5 MATERIALS			
Ref.	Map symbol	Profile view (where appropriate)	Description
5.1			Large rocks, boulders.
5.2			Rockfall, talus.
5.3			Pebbles, gravel.
5.4			Sand.
5.5			Earth, mud.
5.6 NEW			Roots (in situ). NEW . Vertical for hanging roots, horizontal for roots on floor.
5.7 NEW			Guano. NEW UIS symbol
5.8			Vegetable debris.

1.6 SECONDARY DEPOSITS			
Ref.	Map symbol	Profile view (where appropriate)	Description
6.1			Rimstone pool, gours, terraces, with water.
6.2			Rimstone dams, dry.
6.3			Flowstone. <i>Differs from UIS</i>
6.4 NEW			Stalagmite. NEW UIS symbol
6.5 NEW			Stalactite. NEW UIS symbol
6.6 NEW			Column, (speleothem, not bedrock). Small symbols are NEW from UIS , large symbol is for large formations (drawn to scale) and <i>differs from UIS</i>

6.7			Crystals.
6.8			Helictites.
6.9			Moonmilk.

1.7 PHYSICS			
Ref.	Map symbol	Profile view (where appropriate)	Description
7.1 NEW			Flowing water, with direction and volume of flow (L/s or cu m/s).
7.2 NEW			Standing water, (pool or lake).
7.3 NEW			Water without free surface to air.
7.4			Intermittent water course.
7.5			Conjectural water course.
7.6 New			Roof canyon: NEW ASF version - uses a variant of the Roof Step symbol (ASF 4.5), optionally combined with the new "deduced flow direction" symbol.
7.7 NEW			Current scallops (left); and non-directional Flutes (right). NEW UIS symbols

<p>7.11 New</p>			<p>Deduced flow direction. NEW UIS symbol for all deduced flow directions. See discussion elsewhere.</p>
<p>7.8 NEW</p>	<p>1997.2.21.9.30</p> 		<p>Direction of Air Flow. NEW UIS symbol.</p>
<p>7.9</p>			<p>Limit of daylight.</p>
<p>7.10</p>			<p>Change in rock type.</p>

1.8 ARTIFICIAL CONSTRUCTIONS (e.g. Tourist caves)			
Ref.	Map symbol	Profile view (where appropriate)	Description
8.1			Hand rail.
8.2			Fence.
8.3			Formed path, with steps.
8.4			Permanent ladder.
8.5			Fixed line.
8.6			Door. (L) Locked, (U) Unlocked.
8.7			Gate. (L) Locked, (U) Unlocked.
8.8			Electric Light.
8.9			Power outlet.
8.10			Electric light switch.
8.11			Emergency light, (torch, candles).
8.12			Bridge: (T) timber, (C) concrete, (I) iron, (M) masonry.
8.13			Artificial embankment. <i>Symbols on lower side.</i>

1.9 SURFACE FEATURES			
Ref.	Map symbol	Profile view (where appropriate)	Description
9.1 New			Doline (degraded): New version. Use optional dashed line for the upper break-in-slope where that is well defined. For very small hollows, where there is no room for arrows, use the dashed line on its own.
9.2 NEW			Doline (cliffed): New version. Uses standard cliff symbol.
9.3 NEW			Cliff line: New version. Uses standard topographic symbol.
9.4			Fence.
9.5			Gate.
9.6			Karst field.








1.10 ENTRANCES

These are symbols for classifying entrance types on a surface map. The ASF has adopted the UIS Speleological Conventional Signs (1978)

Entrance Types		ACTIVE										DRY			
		Outflow				Inflow				Out - In (estavelle)					
		Perennial	Intermittent			Perennial	Intermittent			Intermittent					
			Peren. flow	Interm. flow	Connects to		Peren. flow	Interm. flow	Connects to	Peren. flow	Interm. flow				
Penetrable	Cave														
	Pot-hole														
Impenetrable													(not determined)		

1.11 ENTRANCES

These are symbols for classifying entrance types on a surface map. The ASF has adopted the UIS Speleological Conventional Signs (1978)

	Rockshelter
	Natural bridge - over perennial stream
	Natural bridge - over intermittent stream
	Artificial cavity - cave type
	Artificial cavity - pothole type
	Destruction of cave entrance - partial
	Destruction of cave entrance - complete

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