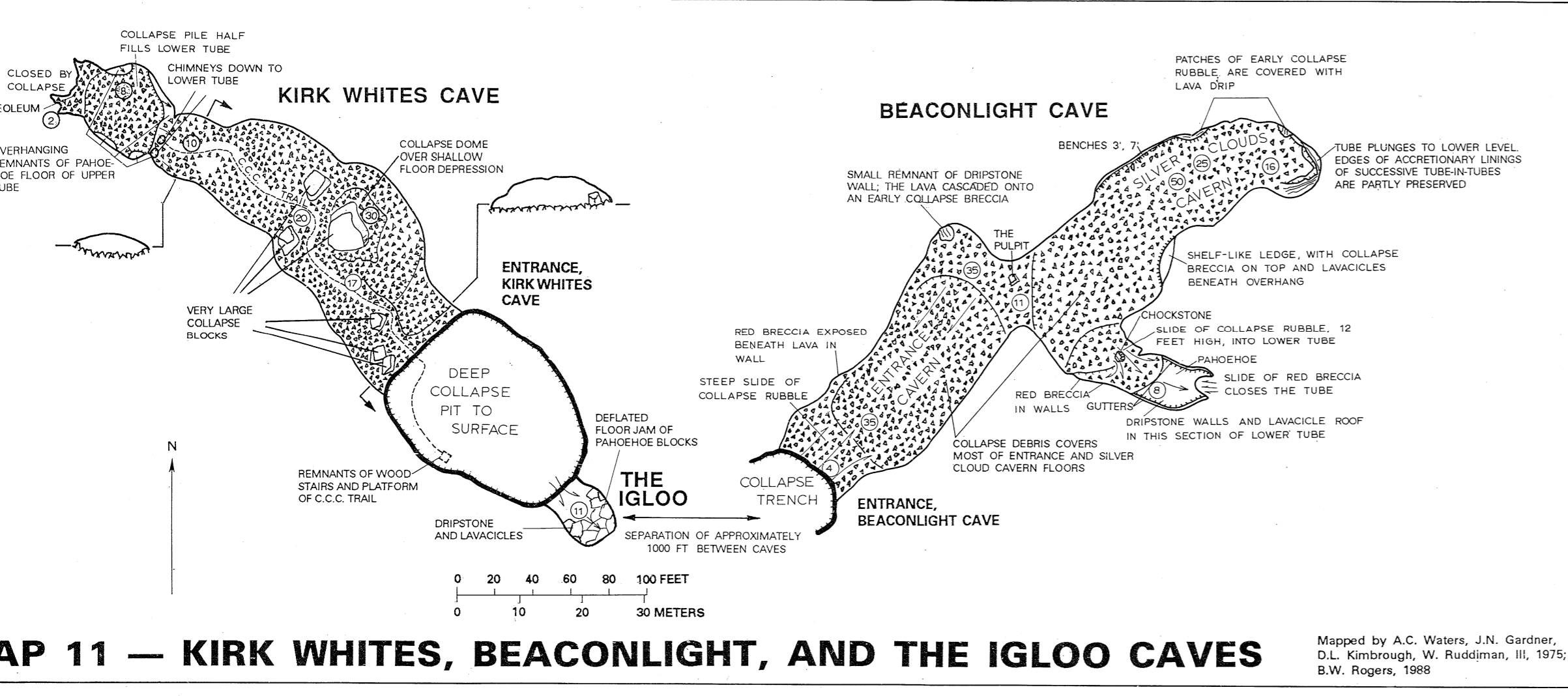


MAP 10 — MERRILL ICE CAVE, MERRILL NATURAL BRIDGE, AND BEARPAW CAVE

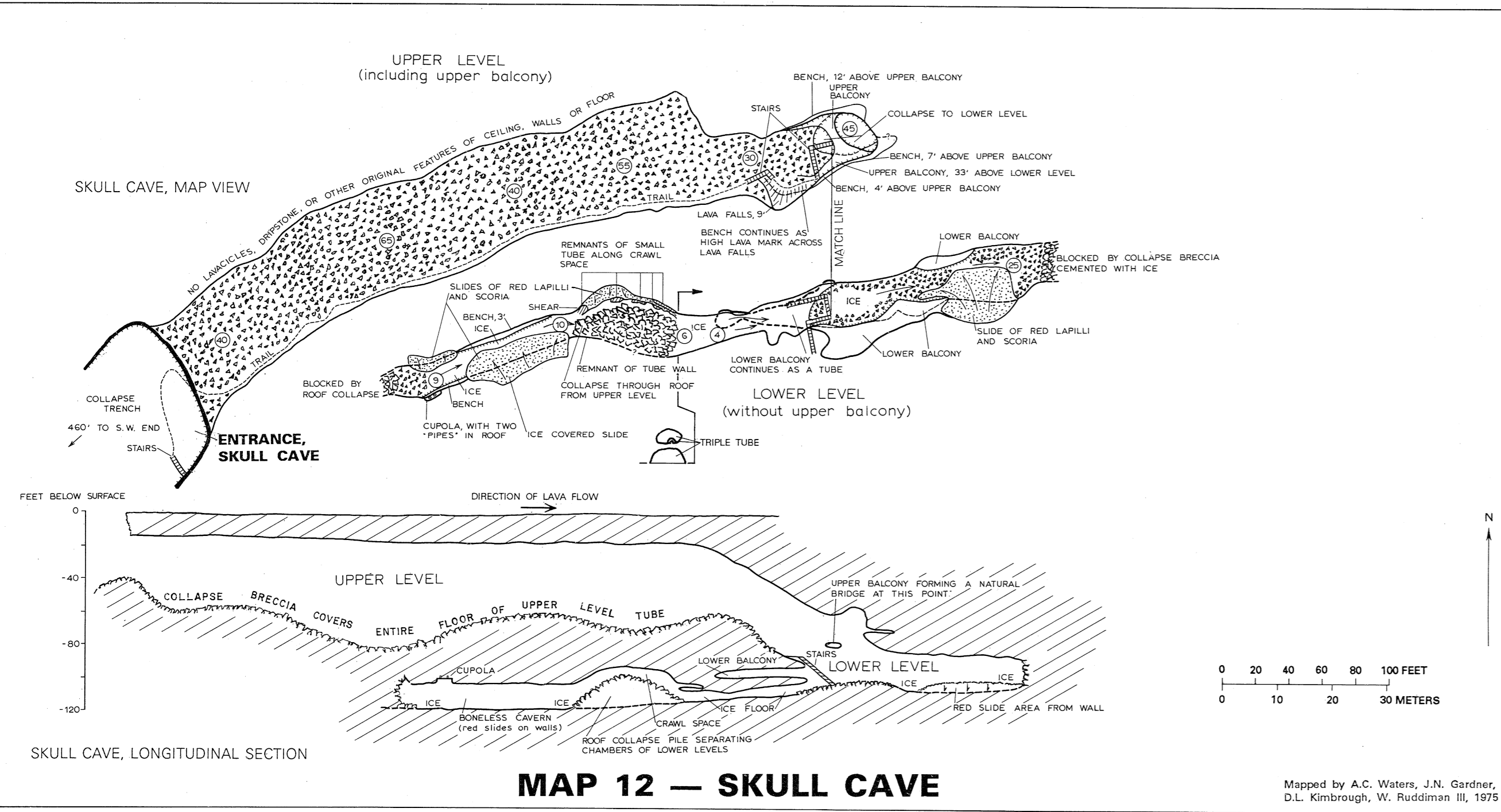
Mapped by A.C. Waters, J.N. Gardner, D.L. Kimbrough, W. Ruddiman, II, 1975



MAP 11 — KIRK WHITES, BEACONLIGHT, AND THE IGLOO CAVES

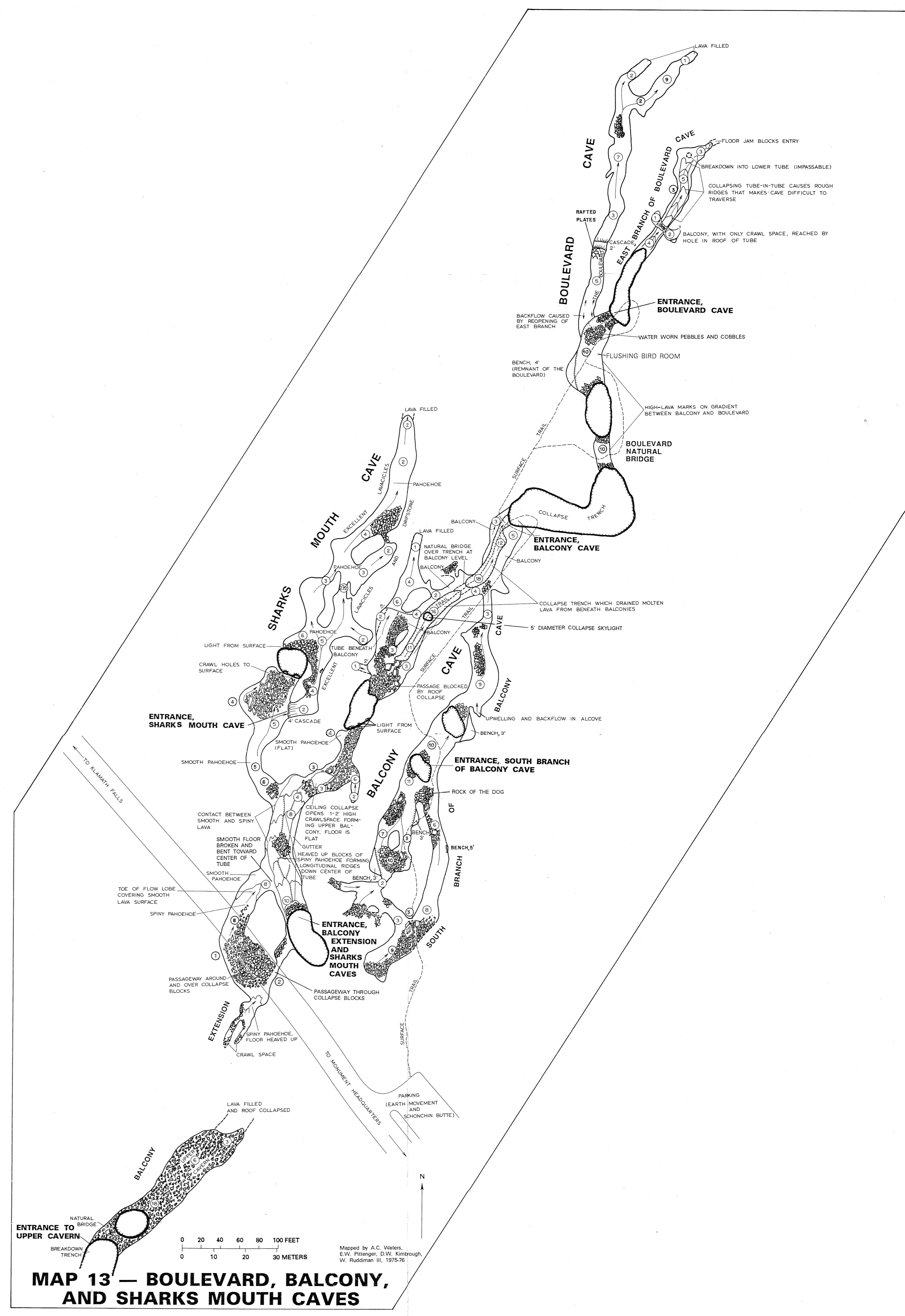
Mapped by A.C. Waters, J.N. Gardner, D.L. Kimbrough, W. Ruddiman, II, 1975; B.W. Rogers, 1968

- EXPLANATION**
[Not all symbols appear on all maps]
- ENTRANCE OR COLLAPSE TRENCH TO SURFACE—Floor covered with breakdown
 - UPPER AND LOWER PASSAGES—Lower passage shown by dashed or dotted lines
 - PAHOEHOE FLOOR—Arrow shows direction of flow. Dashed arrows indicate backflow
 - DROP—Hachures point downslope
 - BREAKDOWN OR COLLAPSE RUBBLE—Half arrows point downslope; not shown everywhere it is present
 - BENCH OR BALCONY—Height above floor in feet
 - PASSAGE BLOCKED BY LAVA
 - PASSAGE BLOCKED BY BREAKDOWN
 - RAFTED BLOCK
 - LAVA CASCADE OR FALL—Height in feet; barbs point downslope
 - FLOOR JAM OF PLATES
 - CEILING HEIGHT IN FEET
 - FRONT OF FLOW LOBE
 - WASHED-IN SEDIMENT FLOOR
 - TRAIL—Short or long dash
 - STAIRS OR LADDER
 - PIT OR COLLAPSE TRENCH
 - DOME
 - CROSS SECTION OF PASSAGE—Arrow indicates direction of view



MAP 12 — SKULL CAVE

Mapped by A.C. Waters, J.N. Gardner, D.L. Kimbrough, W. Ruddiman, II, 1975



MAP 13 — BOULEVARD, BALCONY, AND SHARKS MOUTH CAVES

Mapped by A.C. Waters, E.W. Fritzsche, D.L. Kimbrough, W. Ruddiman, II, 1975/76

MERRILL ICE CAVE, MERRILL NATURAL BRIDGE, BEARPAW, KIRK WHITES, BEACONLIGHT, THE IGLOO, SKULL, BOULEVARD, BALCONY, AND SHARKS MOUTH CAVES, LAVA BEDS NATIONAL MONUMENT, CALIFORNIA

Many of the feature names used on these maps were assigned by Bruce W. Rogers of the U.S. Geological Survey and the Cave Research Foundation. These names are not officially recognized or approved by the U.S. Board on Geographic Names and are thus considered informal.