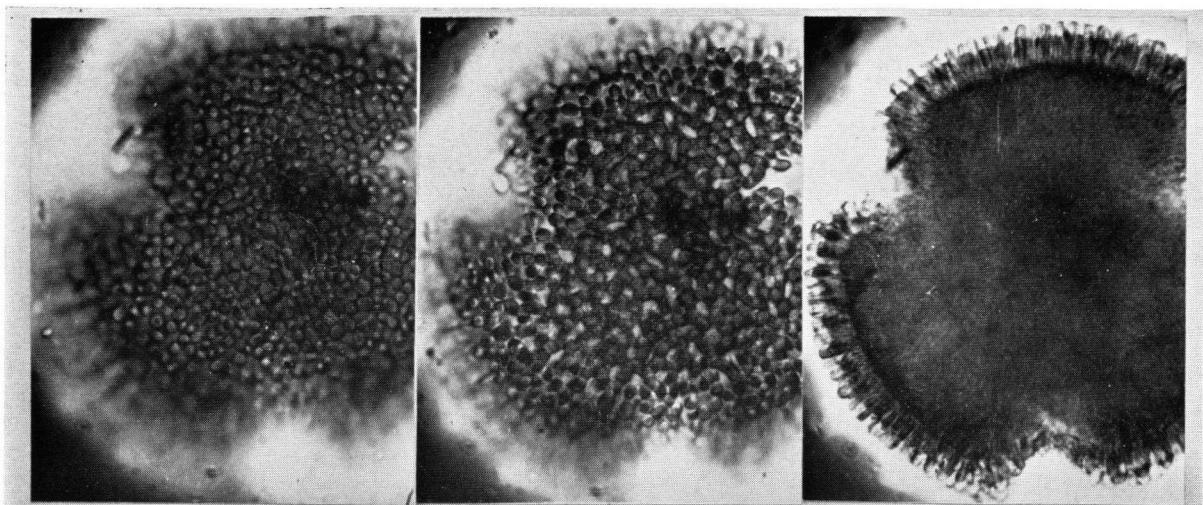
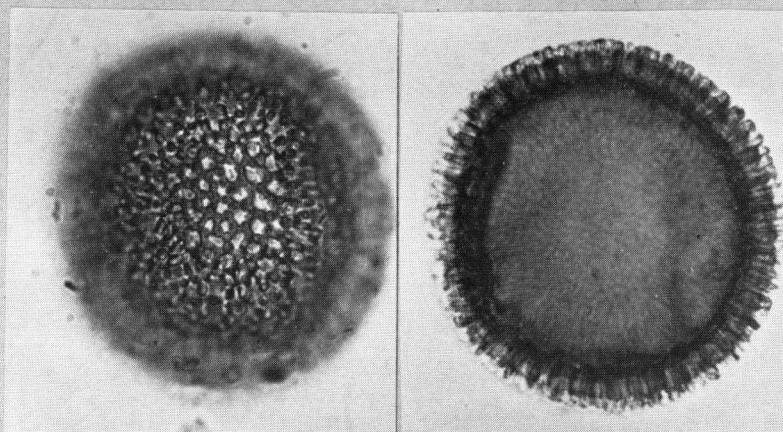


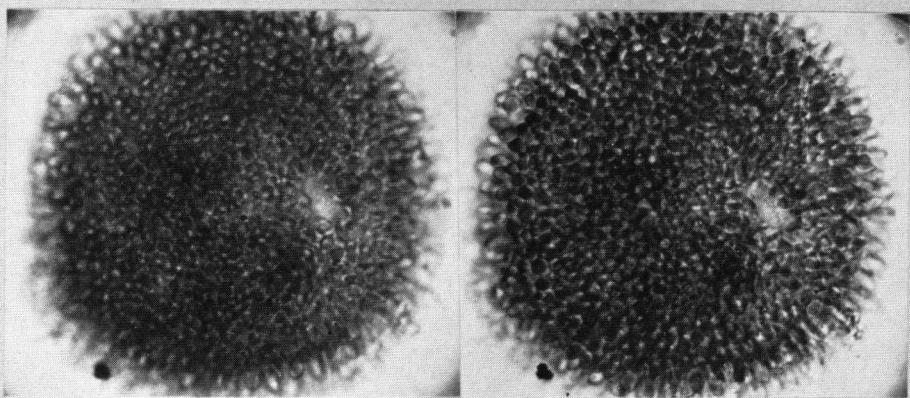
ՀԱՅԱՍՏԱՆԻ



50. Geranium

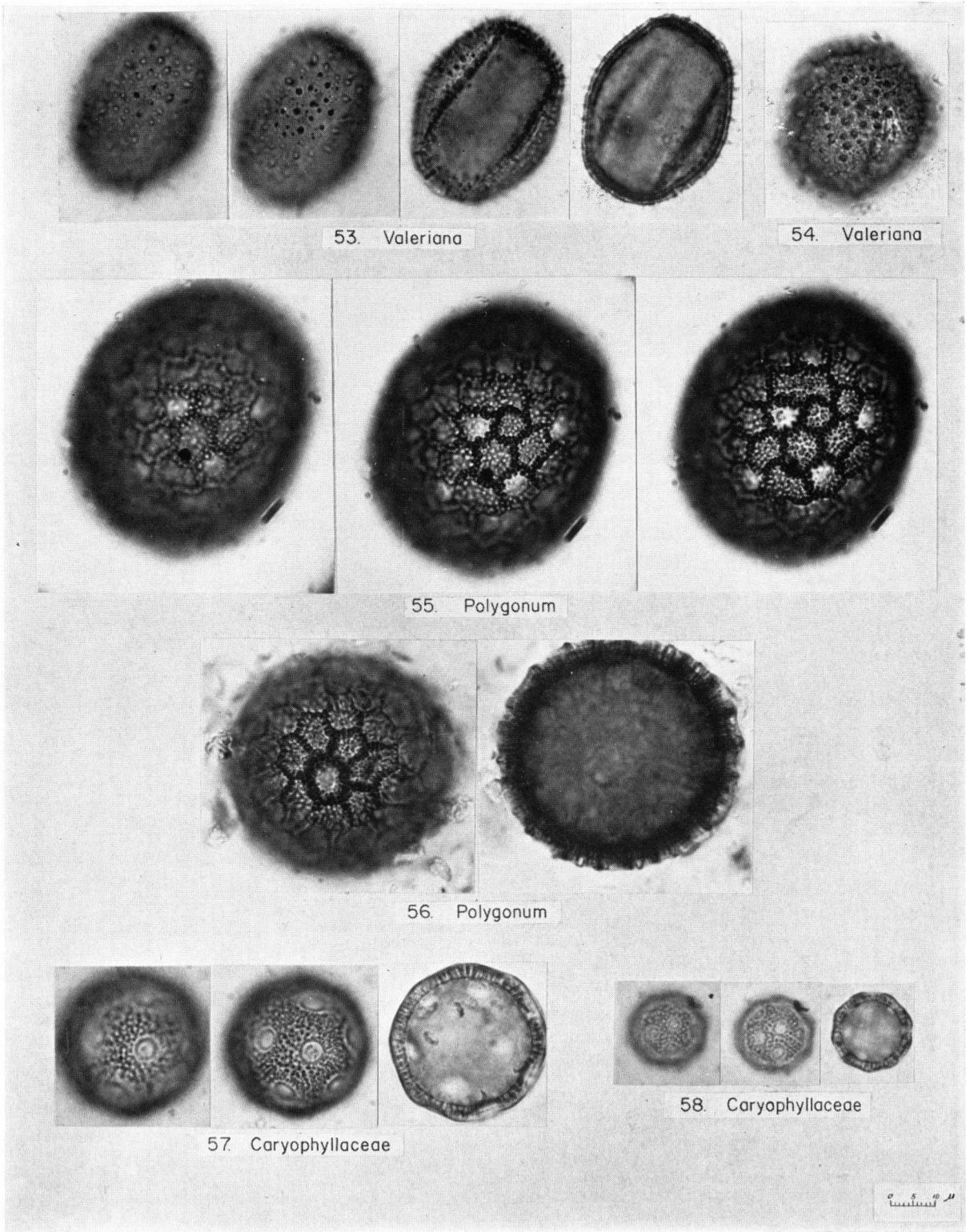


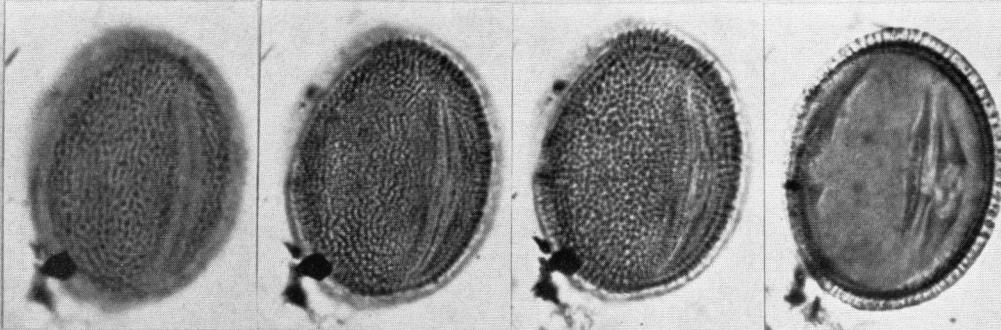
51. Geranium



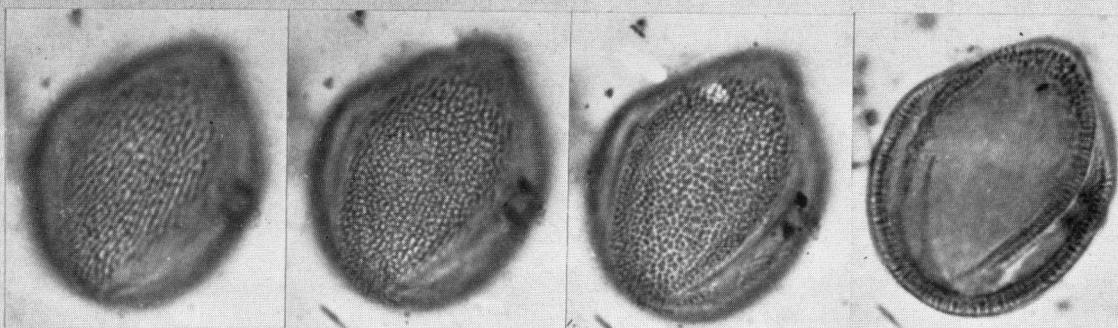
52. Geranium

三十五微米

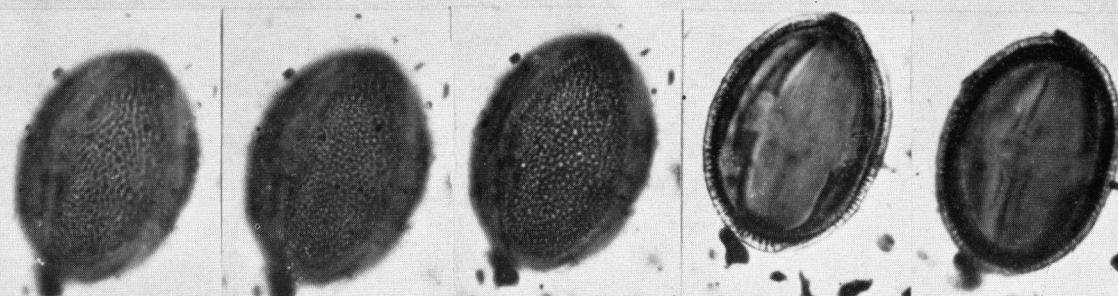




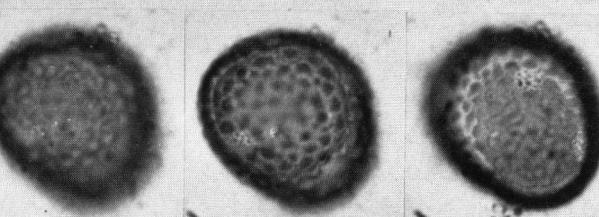
59. *Gentiana corymbosa*



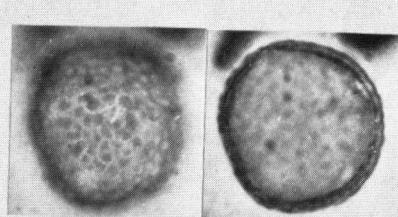
60. *Gentiana corymbosa*



61. *Gentiana*

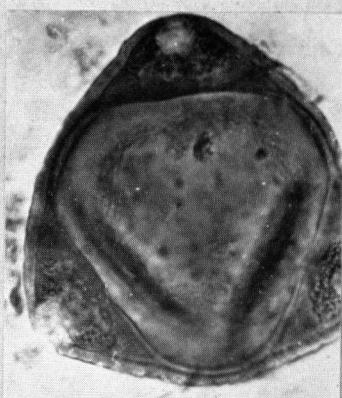


62. *Plantago*



63. *Plantago*

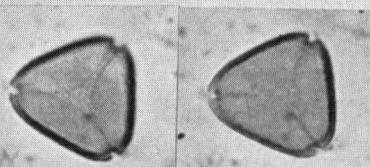
0 5 10 μ



64. Jussiaea



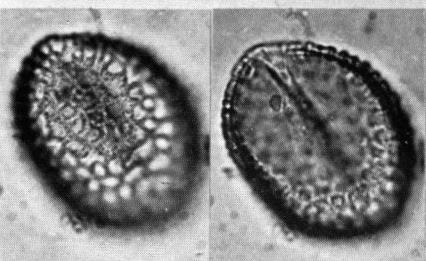
65. Gaiadendron



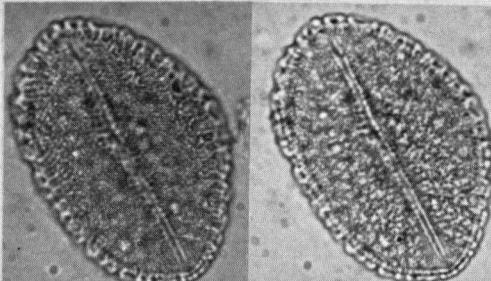
66. Eugenia (Myrtaceae)



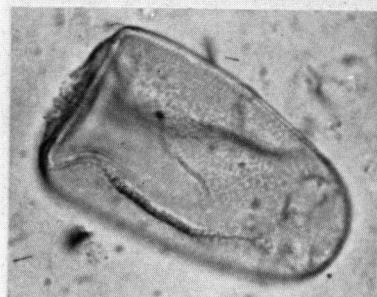
67. Myrtaceae



68. Monocotyledoneae



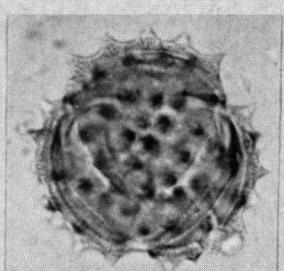
69. Monocotyledoneae



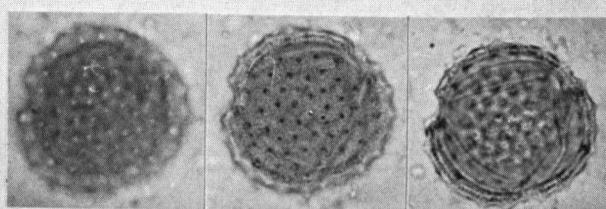
70. Cyperaceae



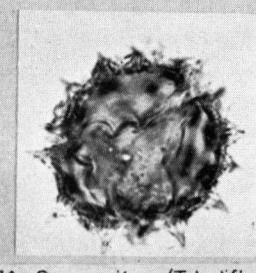
71. Cyperaceae



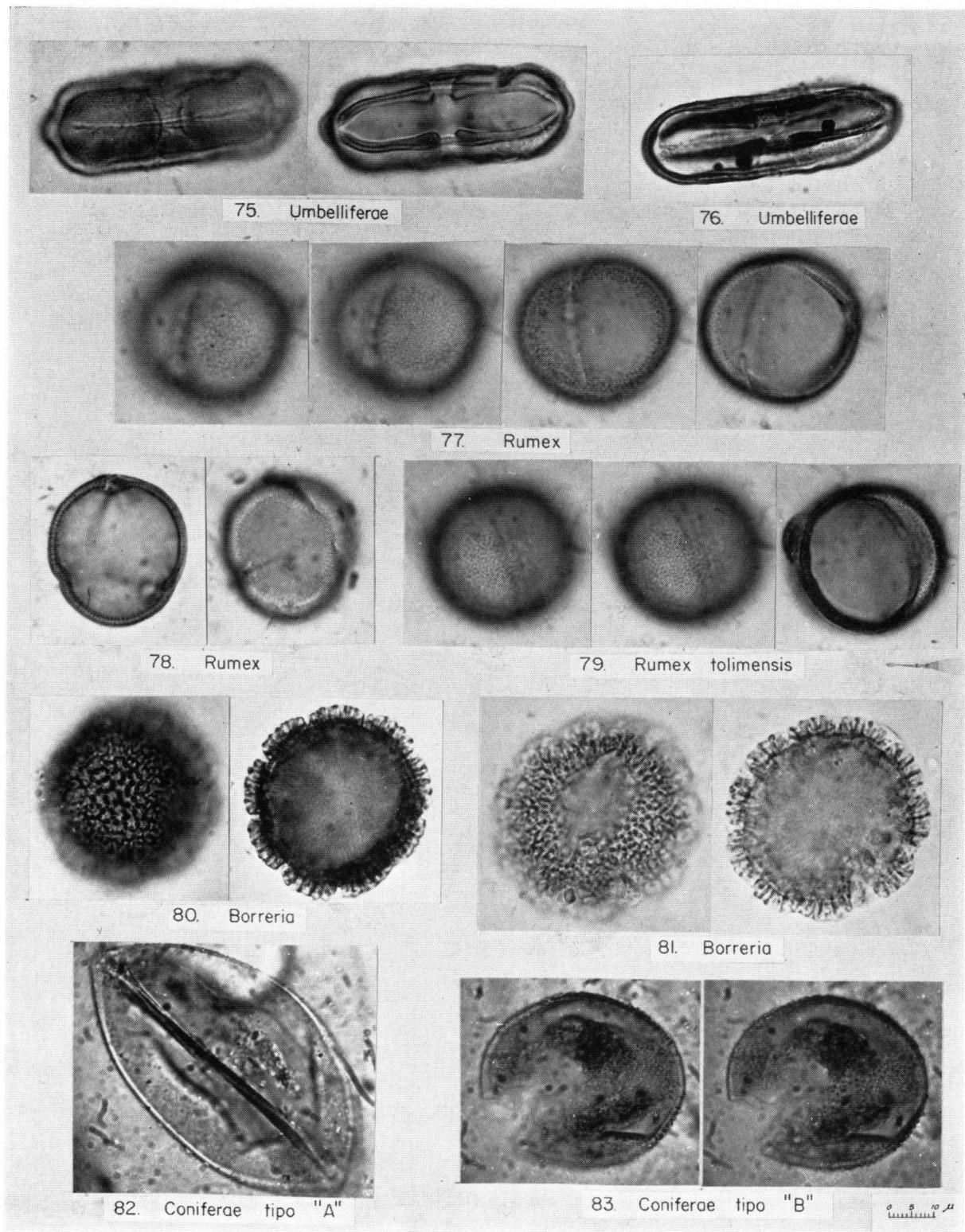
72. Compositae (Tubuliflorae)

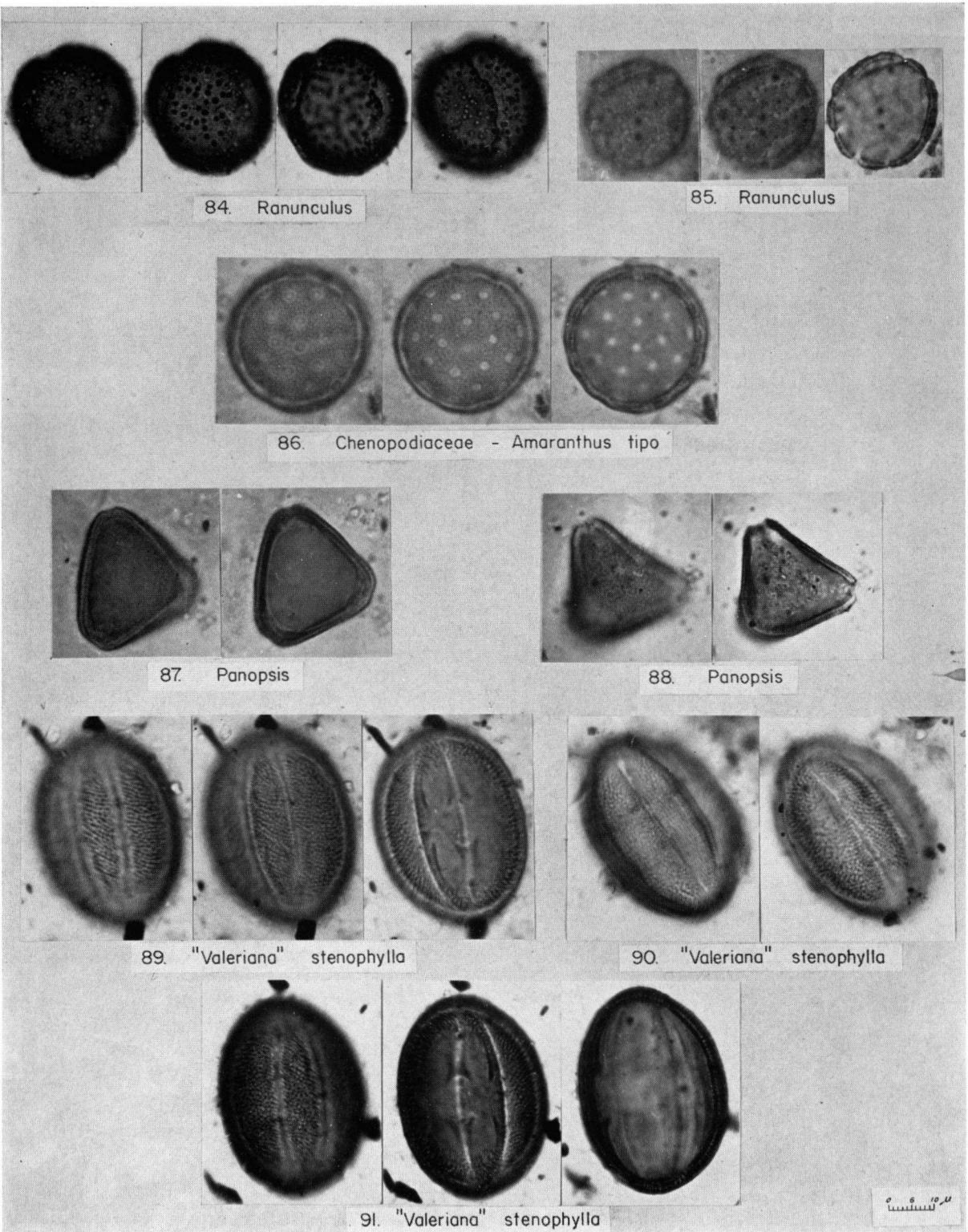


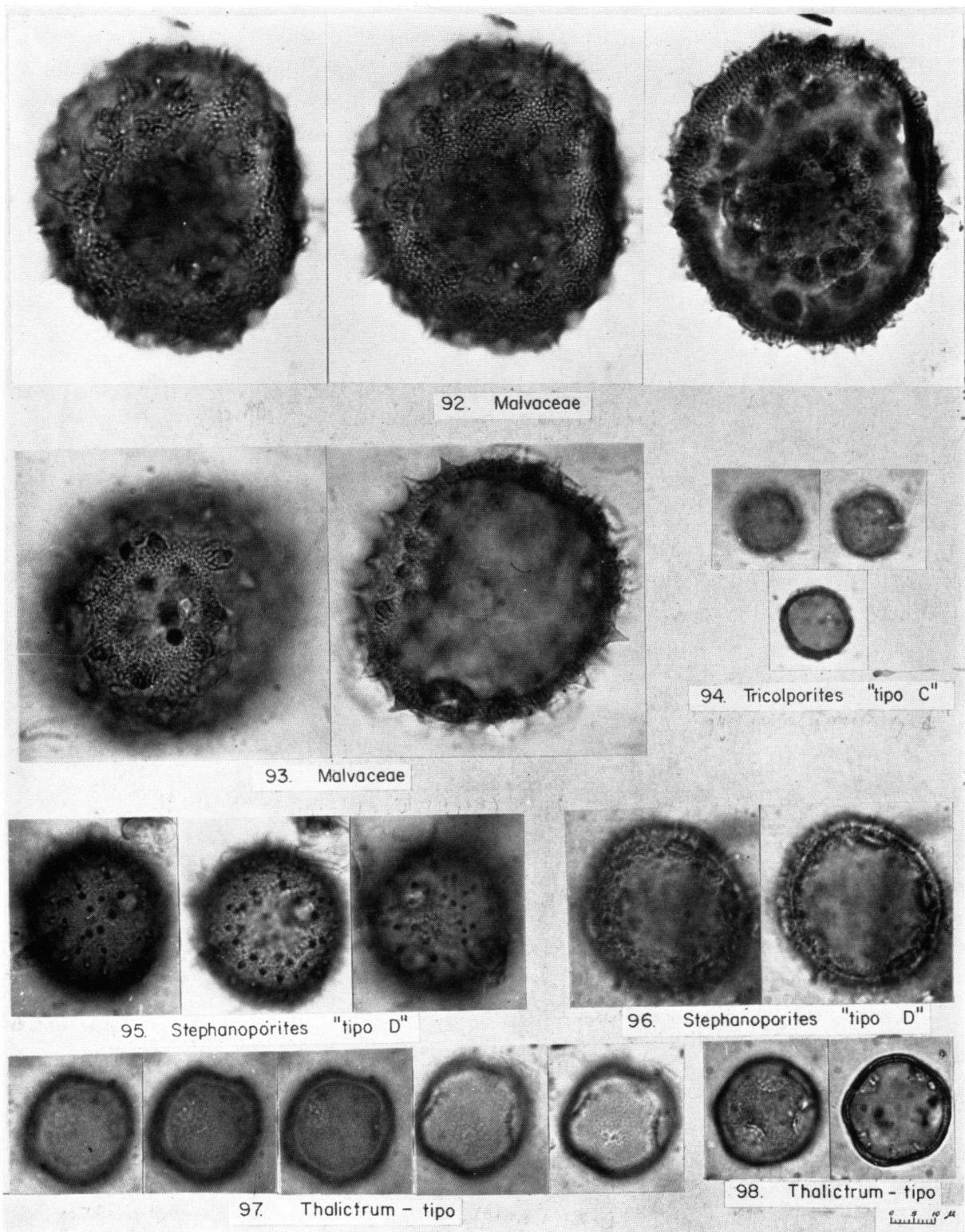
73. Compositae (Tubuliflorae)

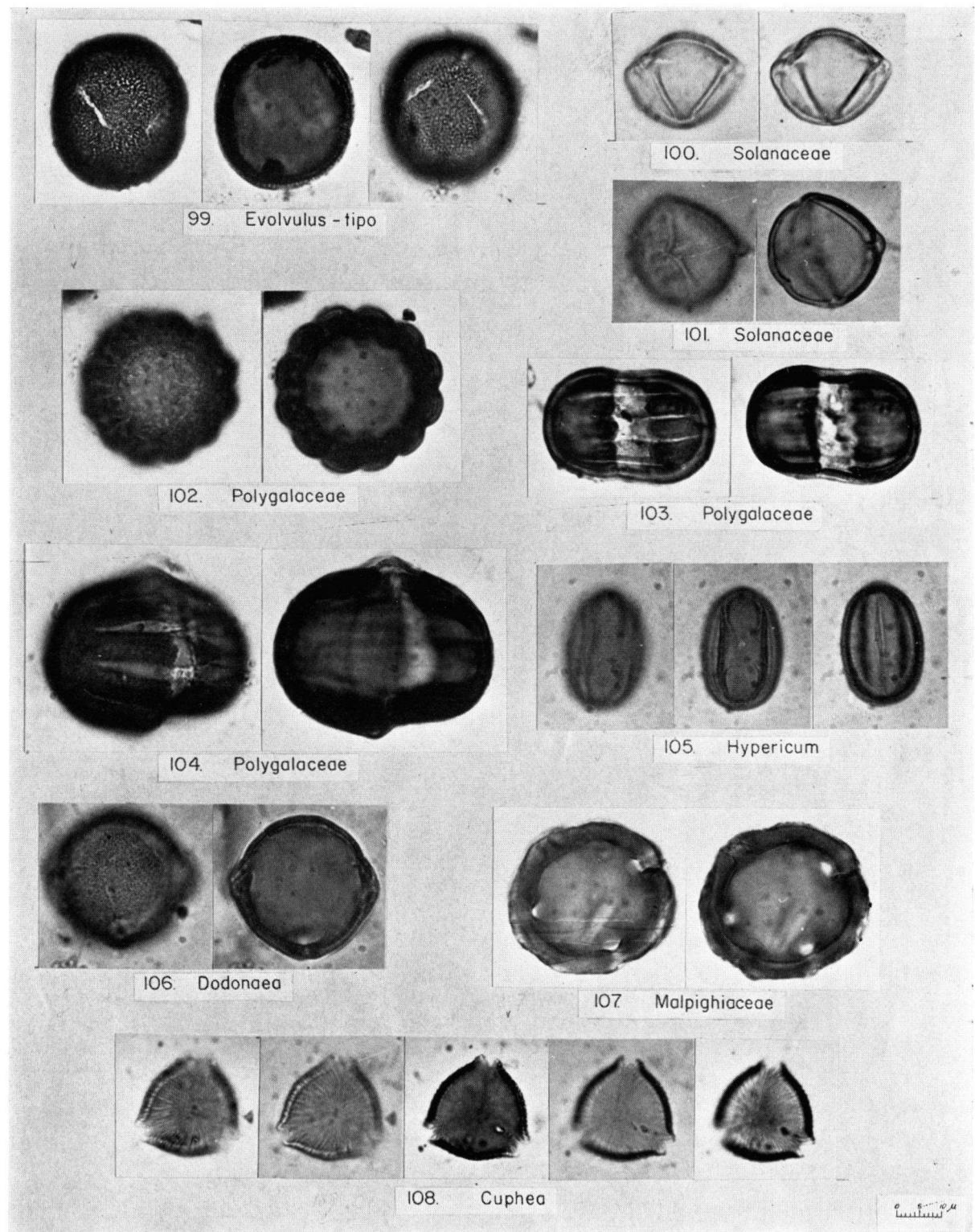


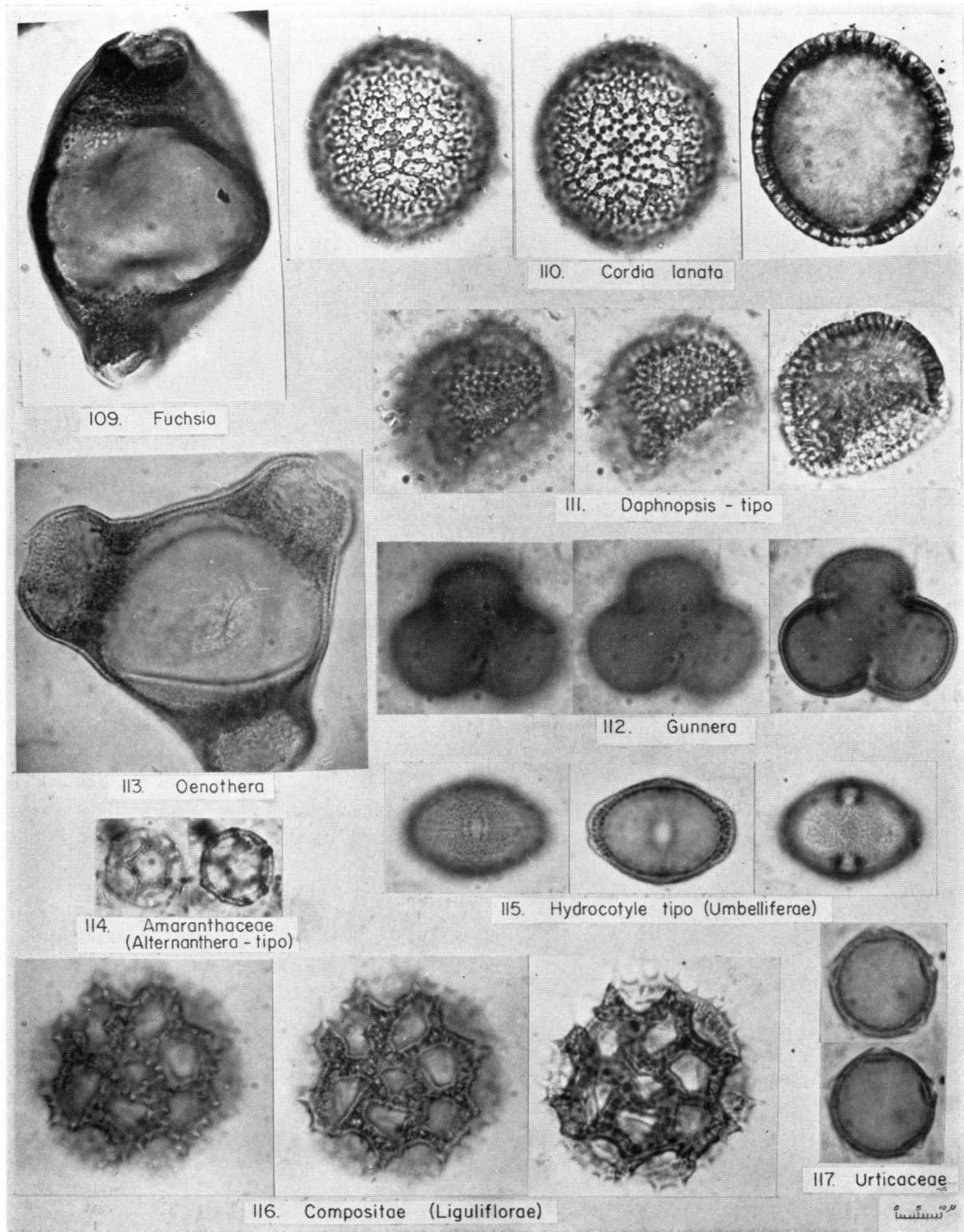
74. Compositae (Tubuliflorae) ئەپتەپەر

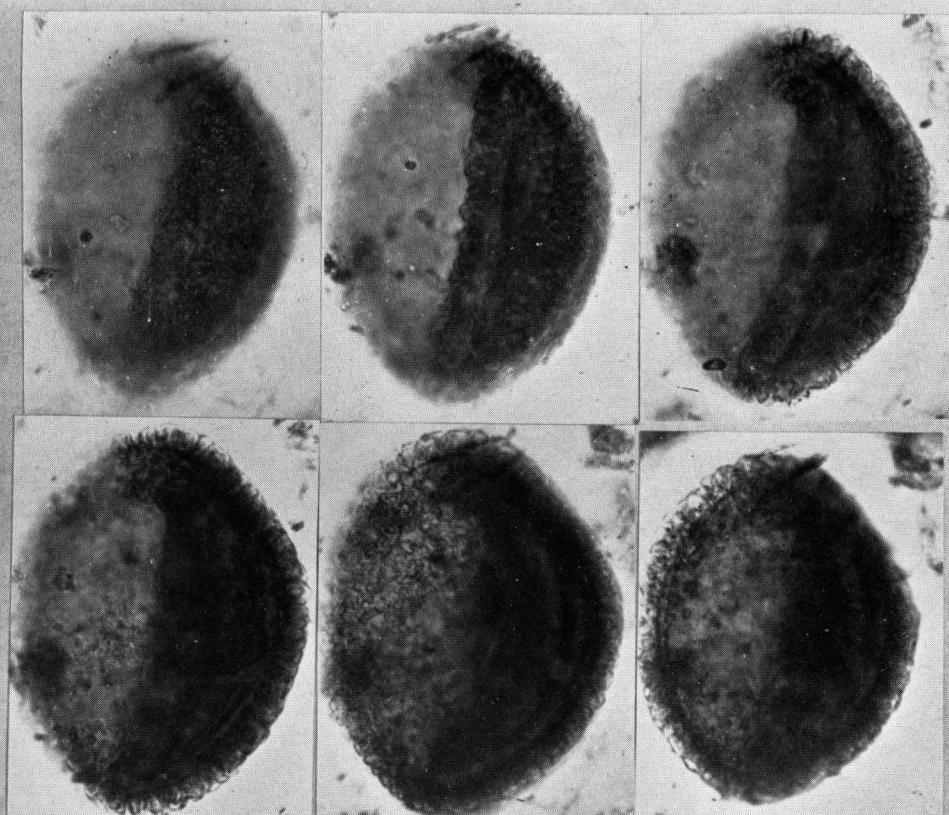




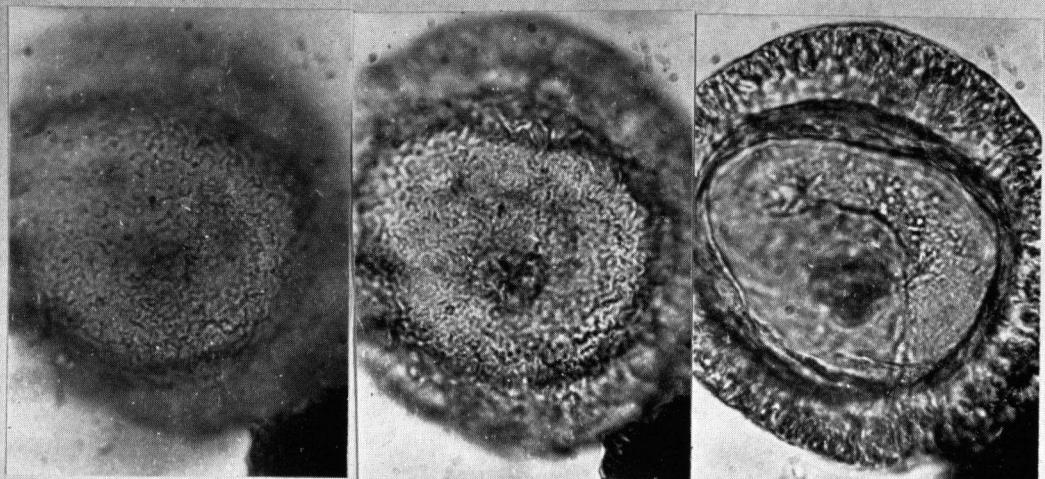






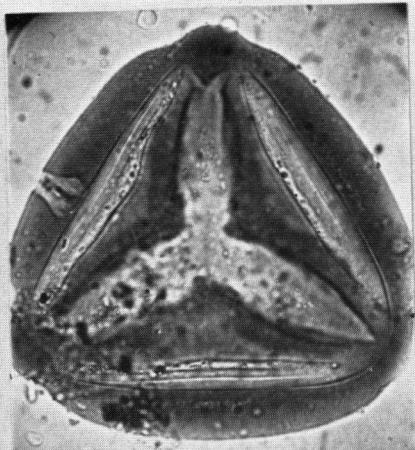


II8. *Dacrydium*

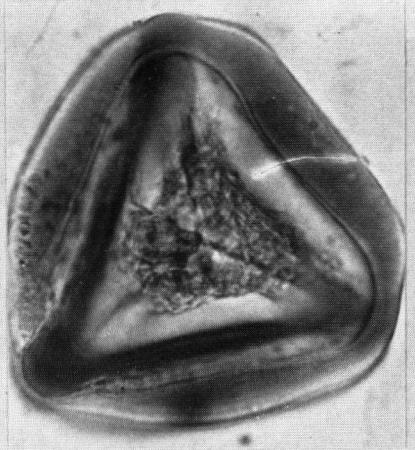


II9. *Podocarpaceae* "tipo E"

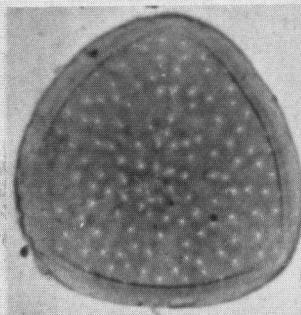
0 5 10 μ



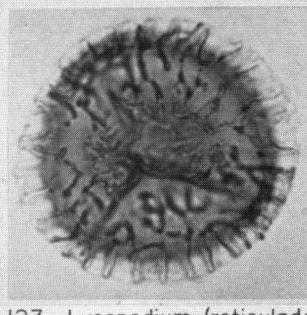
120. Jamesonia



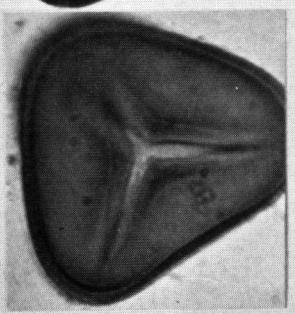
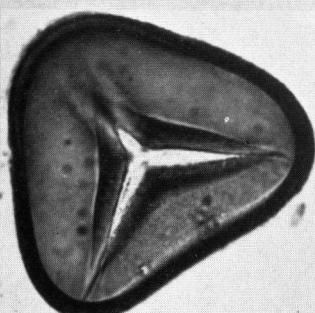
121. Jamesonia



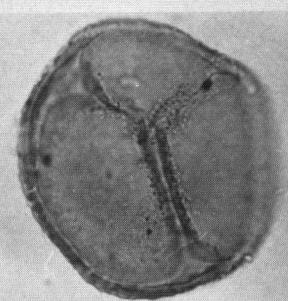
122. Lycopodium (foveolado)



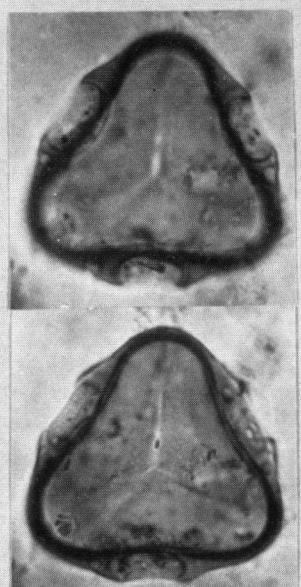
123. Lycopodium (reticulado)



124. Cyatheaceae - tipo

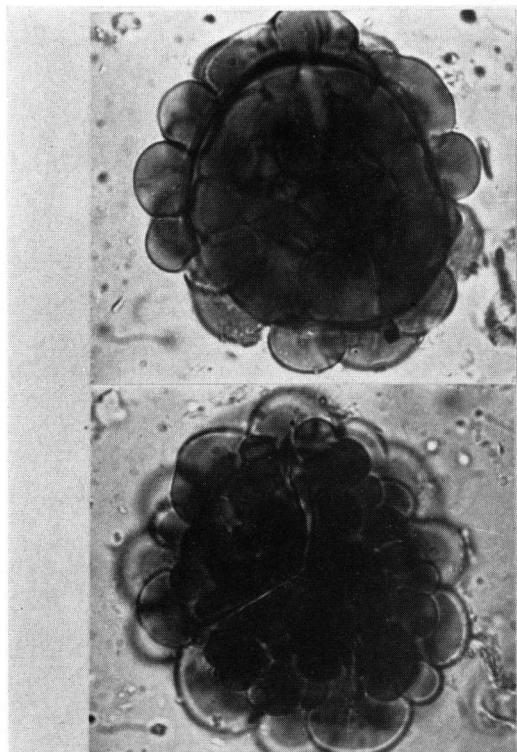


125. Hymenophyllum - tipo

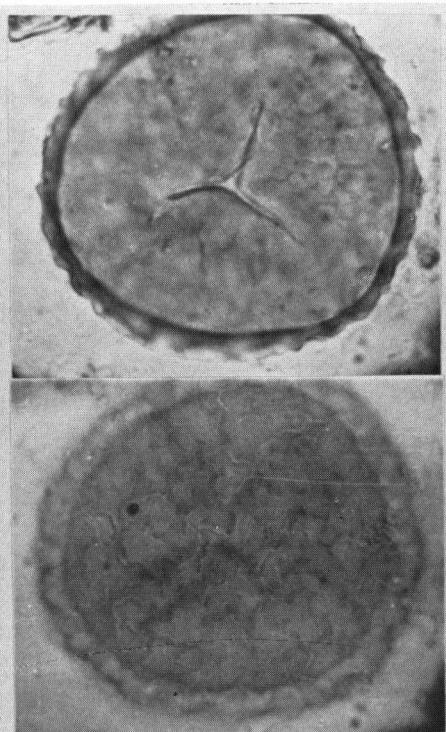


126. Hemitelia

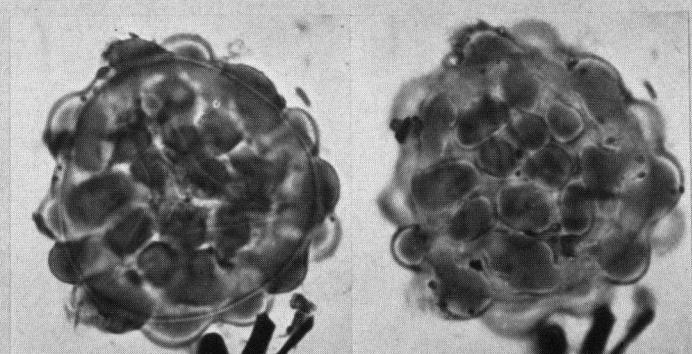
سنسنی



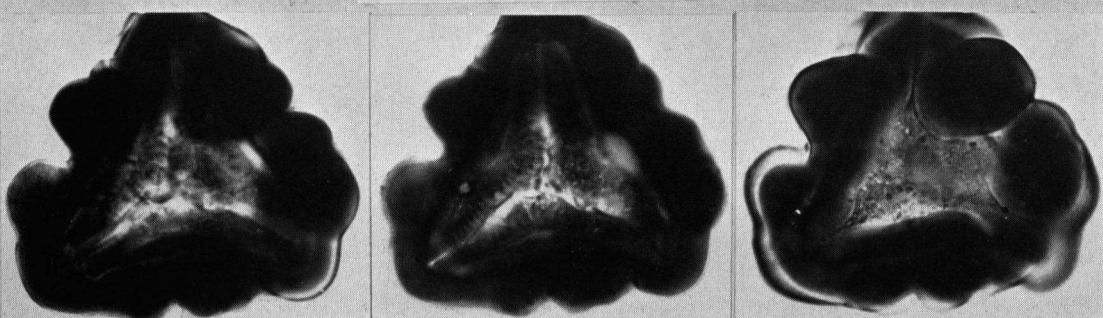
127. Verrutriletes "tipo F"



129. Triletes "tipo I"

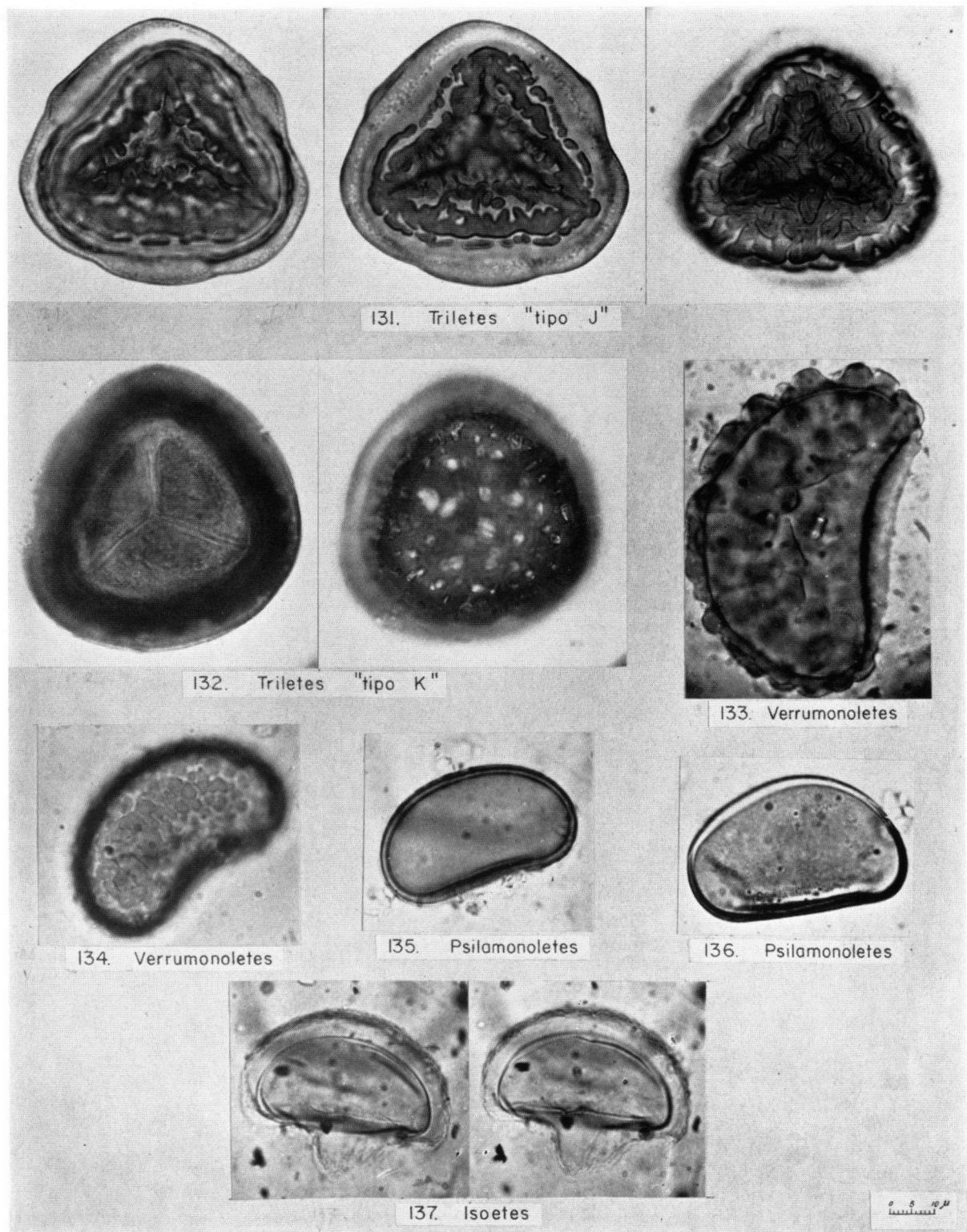


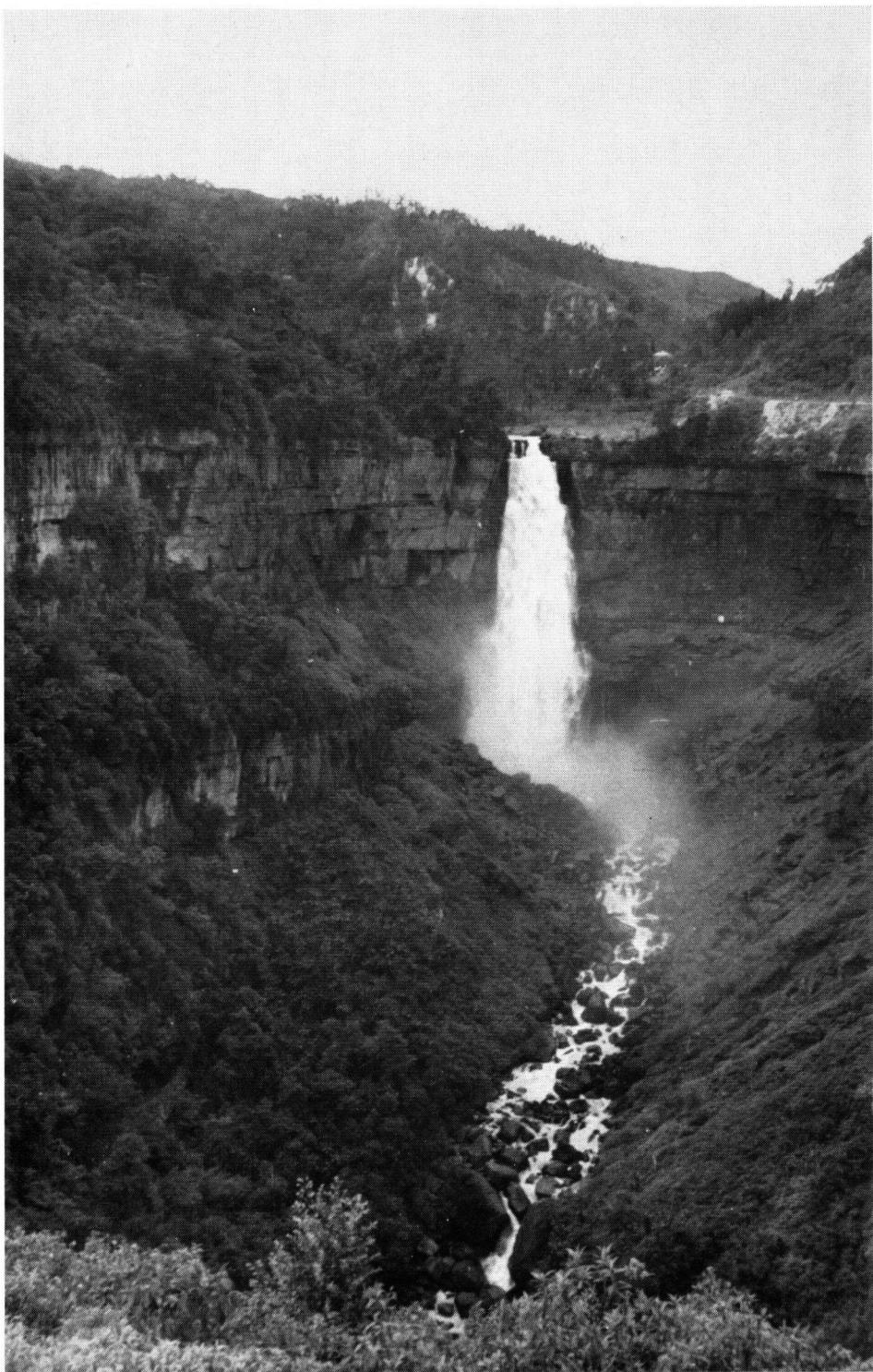
128. Verrutriletes "tipo G"



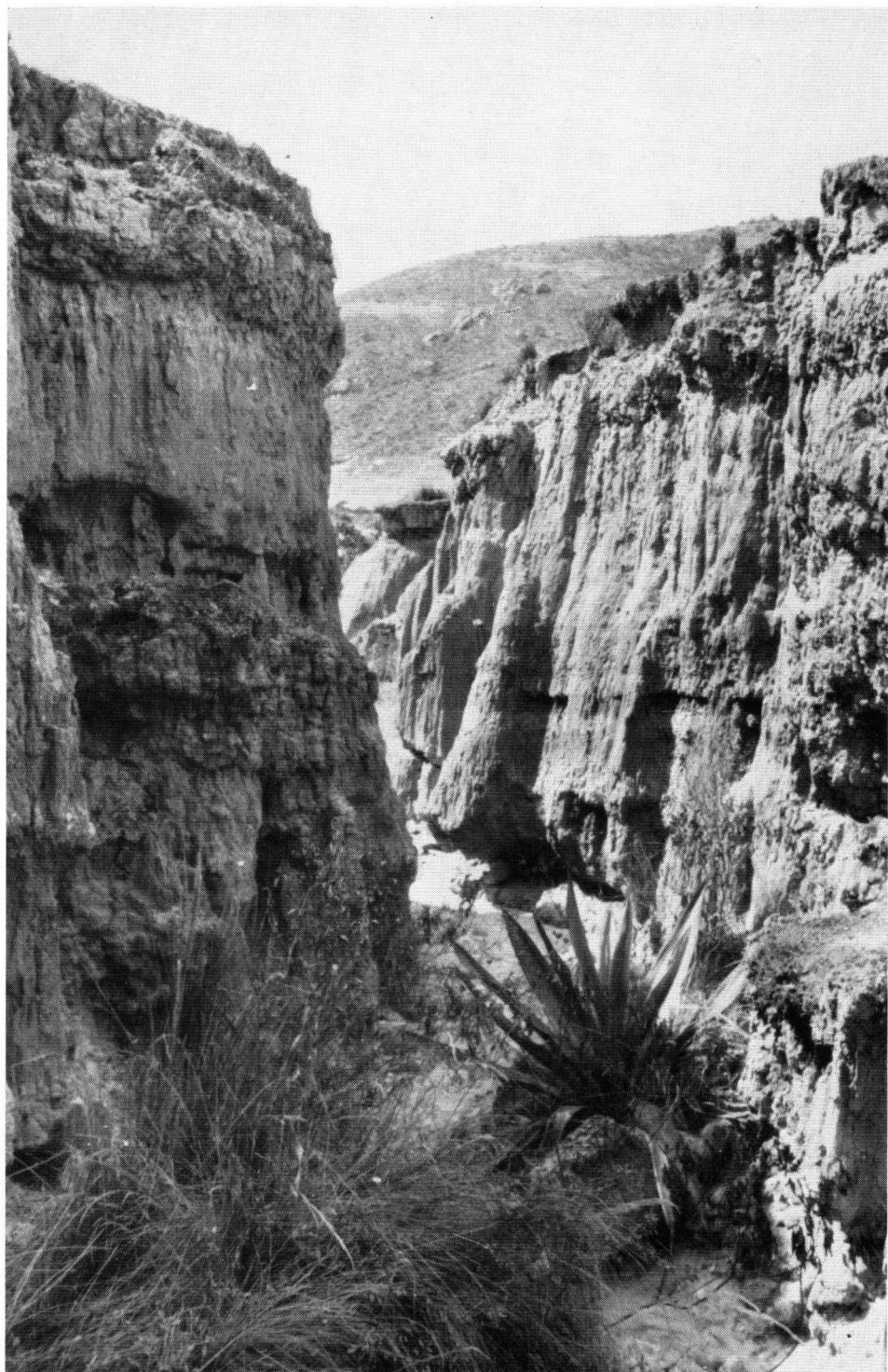
130. Triletes "tipo H"

1 mm





The Tequendama Fall in the Bogotá river, which was during the Pleistocene
the principal outlet of the Sabana-lake.



Eroded shore-sediments of the Sabana-lake, East of Mosquera.



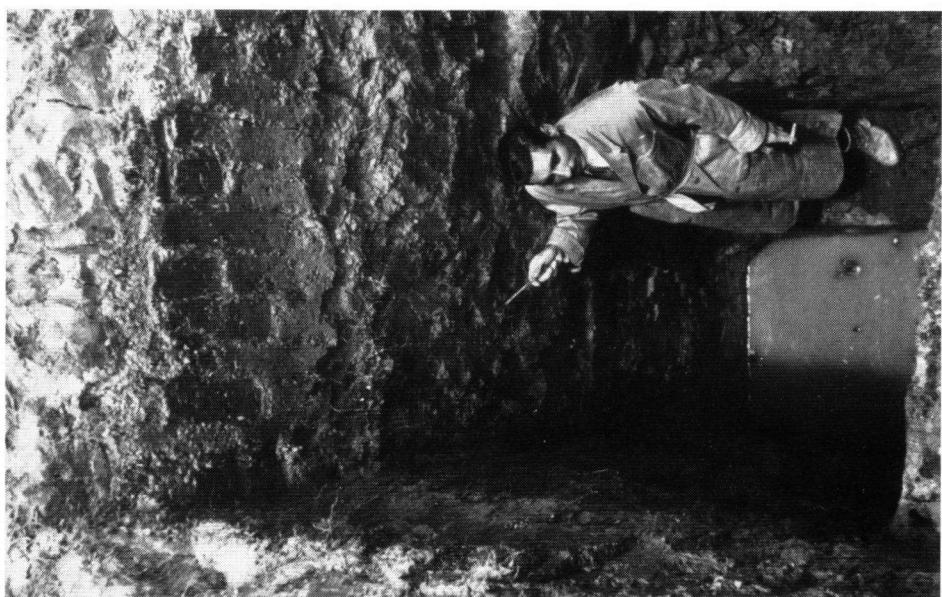
Alnetum, in a small valley on the Sabana de Bogotá, near Subachoque.



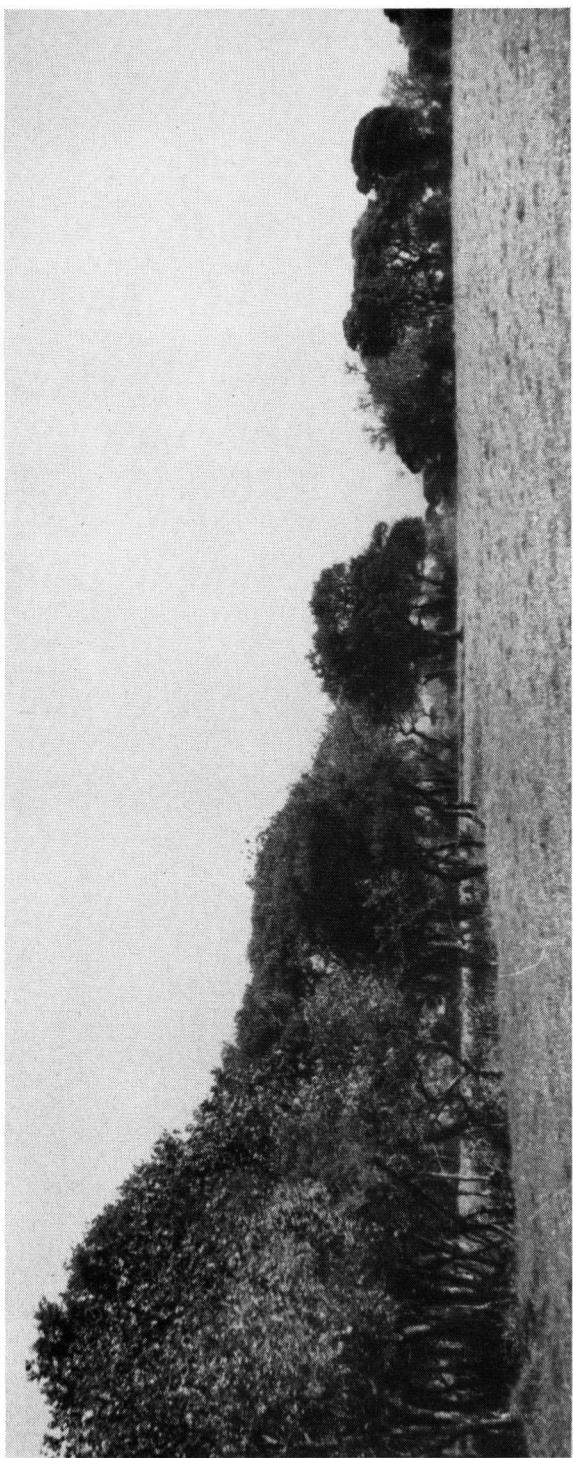
Alnetum, near Subachoque (marginal facies).



Alnetum, near Subachoque (interior).



Upper part of Section CUX. The assistant indicates a horizon with small charcoal particles. Immediately above the water surface, the last sediments of the Sabana lake (grey) are visible.



Forest near Suba, which represents a remnant of the forest that before the occupation by man covered large parts of the Sabana de Bogotá. The dominant trees are *Ilex*, *Vallea* and *Eugenia*.



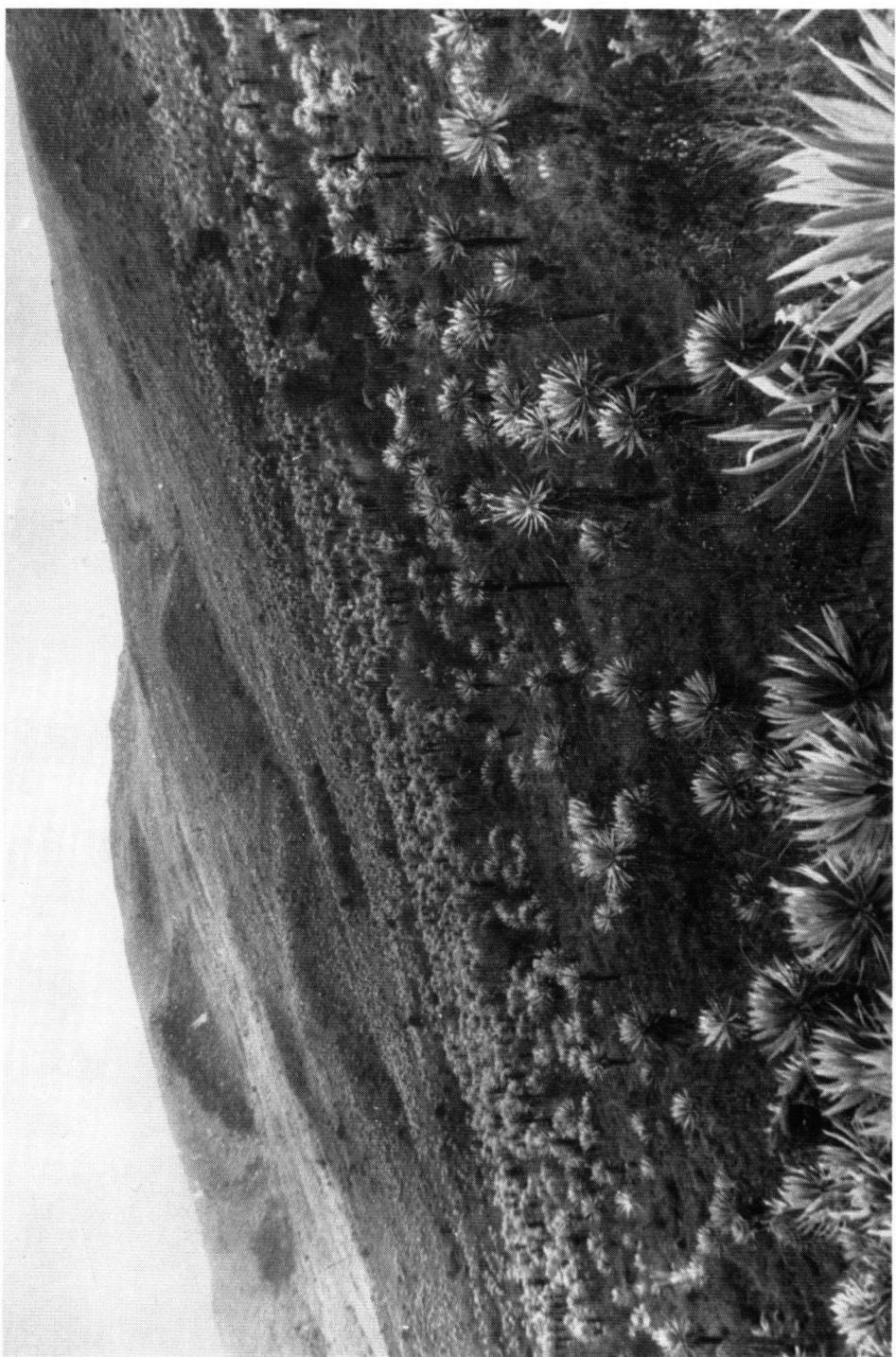
Forest near Suba (marginal facies).



Interior of the forest near Suba (see Pl. XXIII).



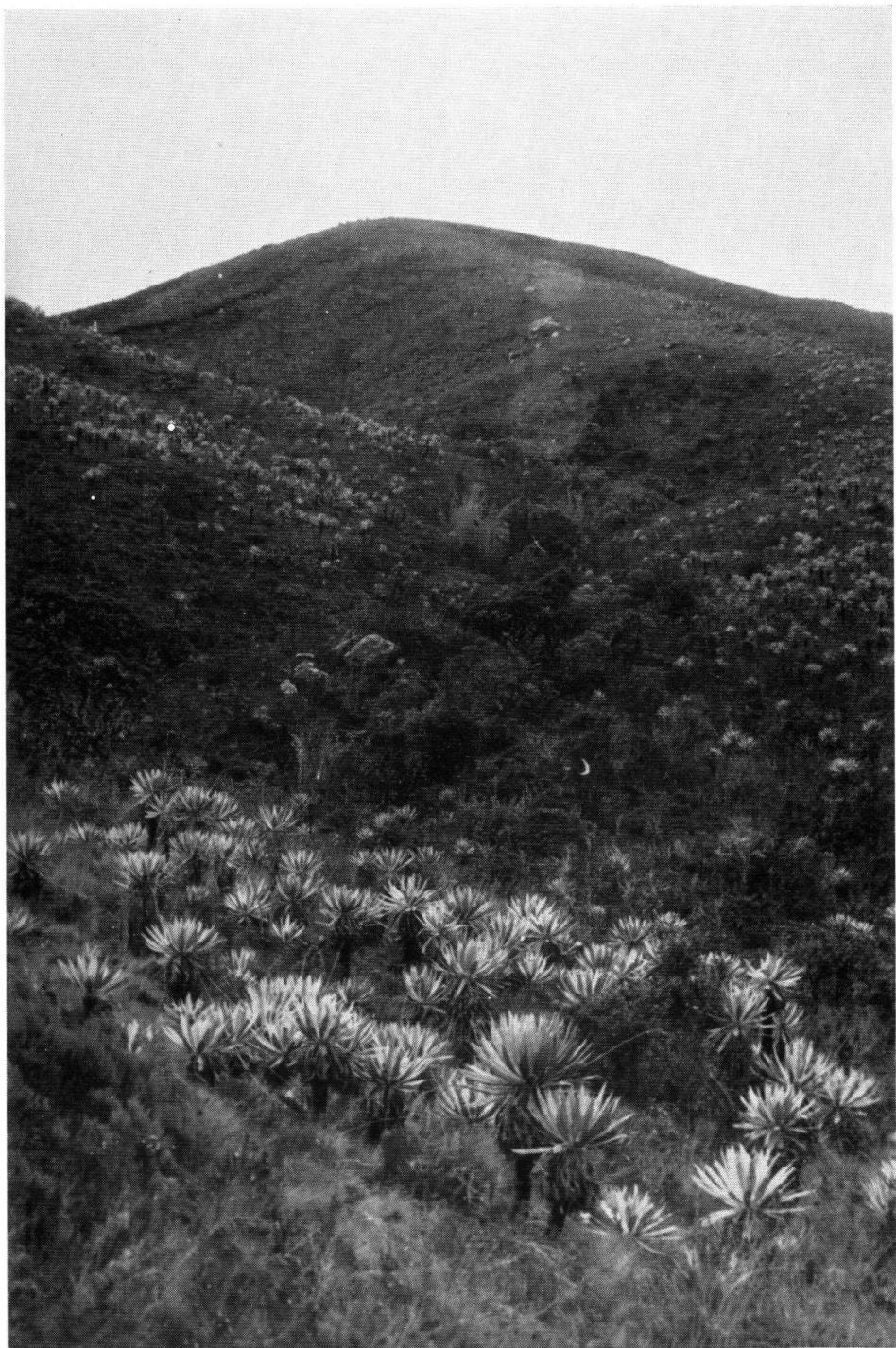
Friends and collaborators, on a botanical excursion in an Oak-forest (Quereetum) on the Alto de Onzaga (dept. of Boyacá). From left to right: Roberto Jaramillo, (guide), Jorge Hernández, Juan Perico and Enrique González.



An aspect of the vegetation (*Espeletium*) at 3,600 m in Páramo de Palacio (Eastern Cordillera, dept. of Cundinamarca).



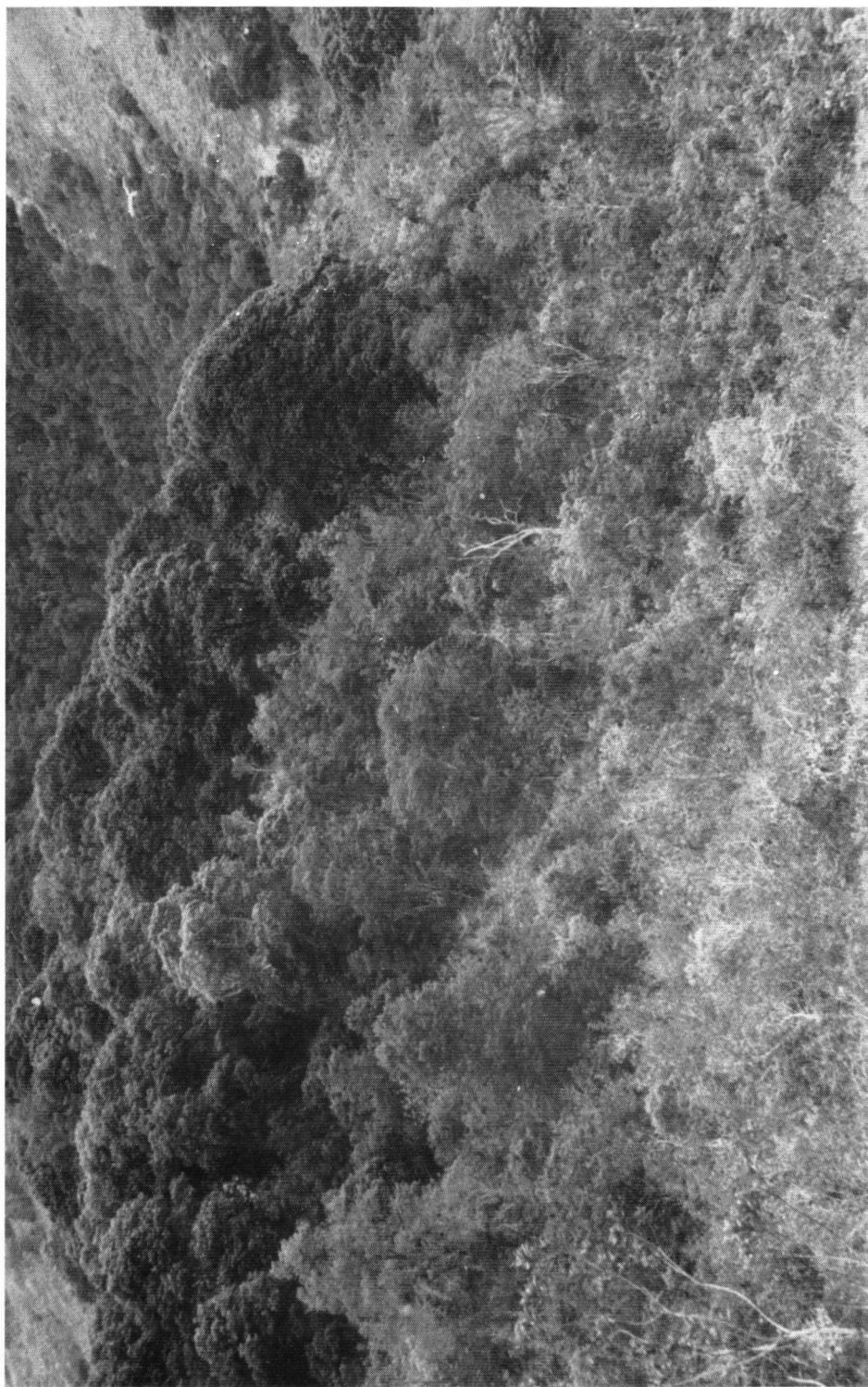
Low forest in a small wind protected valley, in an Espeletietum at 3,450 m
in Paramo de Palacio.
Transition between Vaccinion and Weinmannietum. *Puya* sp. and *Espeletia*, sp. in the foreground.



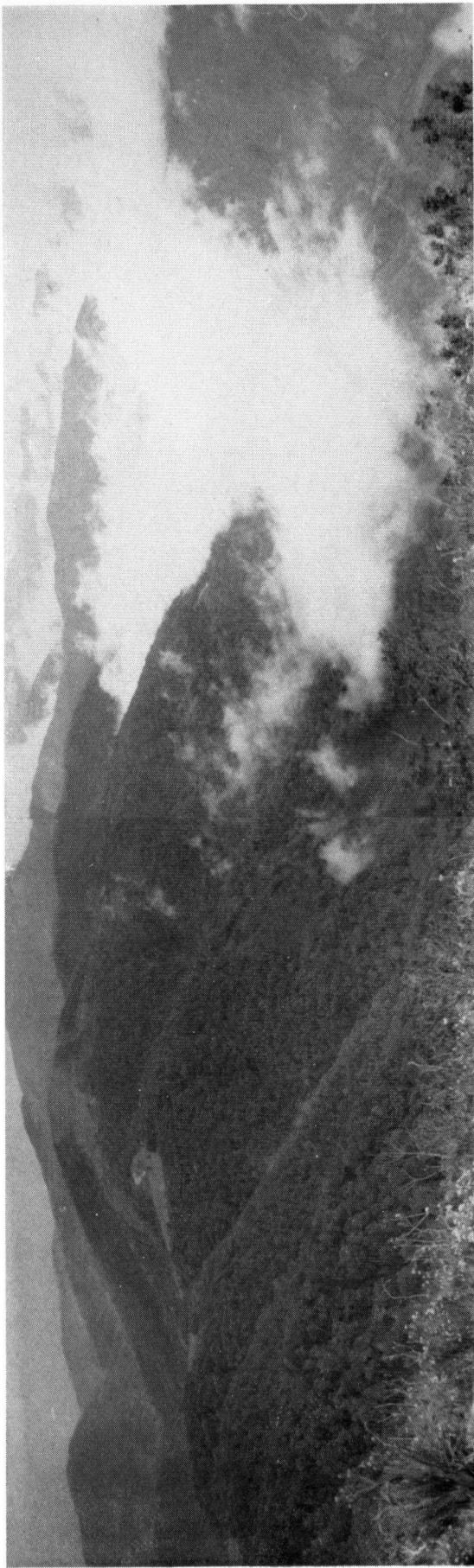
Dwarf-forest (Vaccinion) in a small wind-protected valley,
at an altitude of 3,550 m in Paramo de Palacio.



Dwarf-forest of *Diplostephium* etc., wind-protected by a rock-wall,
at an altitude of 3,600 m in Paramo Palacio.



Oak forest (*Querectum*), at 3,400 m above sea-level on the Alto de Onzaga (dept. of Boyacá).



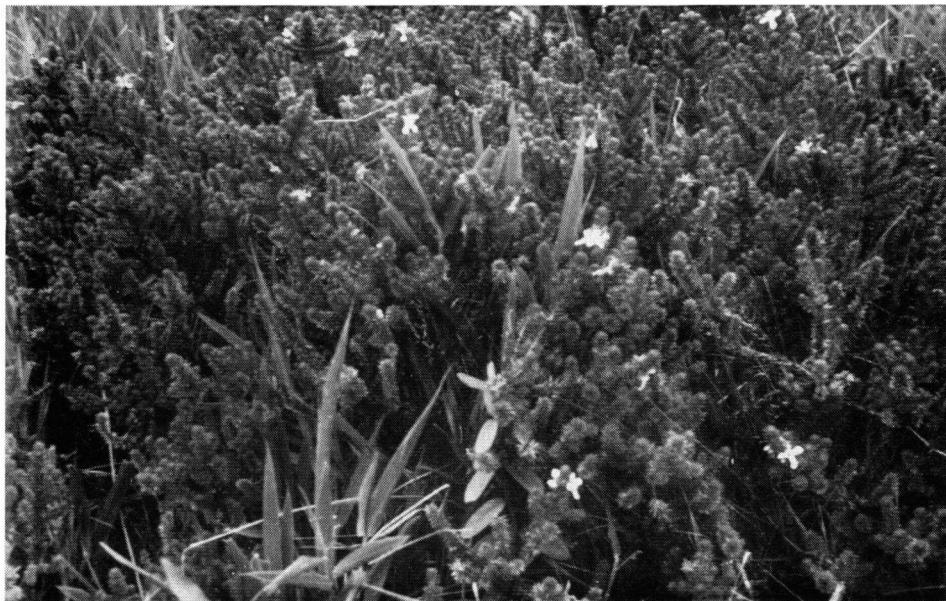
Cloud forest (*Quercetum*), seen from an altitude of 3,450 m on the Alto de Onzaga.



Flowering *Weinmannia tomentosa* L.f., Boyacá, region of the Alto de Onzaga at 2,800 m.



Acaena cylindrostachya R. & P., *Jamesonia* sp. etc. at 3,550 m in Paramo de Palacio.



Flowering *Aragoa abietina* H.B.K., at 3,550 m in Paramo de Palacio.



Flowering "Valeriana" *stenophylla* Killip, at 3,600 m in Paramo de Palacio.



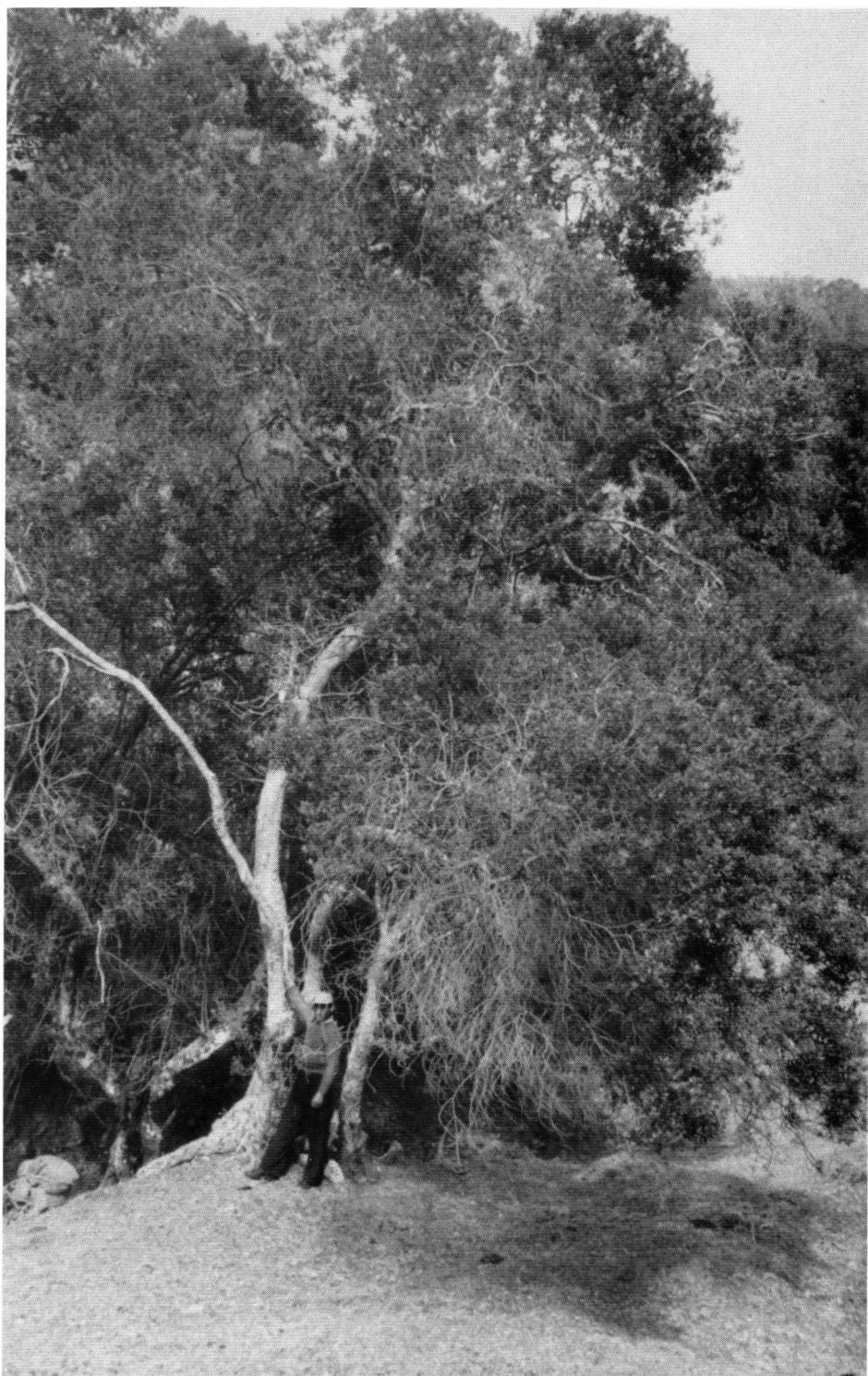
Jamesonia sp., at 3,550 m in Paramo de Palacio.



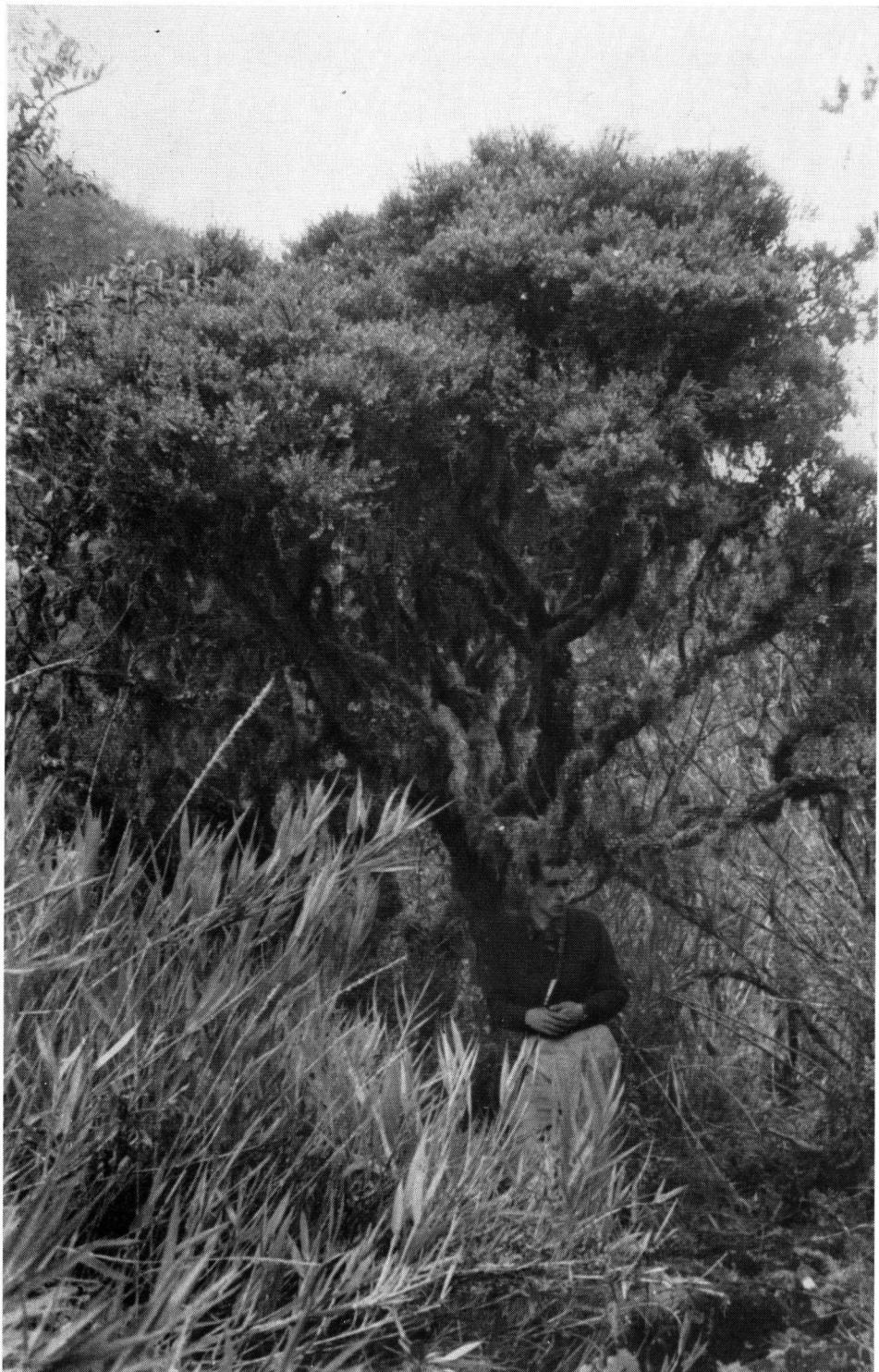
Bocconia frutescens L. at 2,800 m in the region
of the Alto de Onzaga.



Flowering *Acaena cylindrostachya* R. & P., at 3,550 m in Páramo de Palacio.



Big tree of *Myrica parviflora* Benth., at 2,700 m in the region of the Alto de Onzaga.



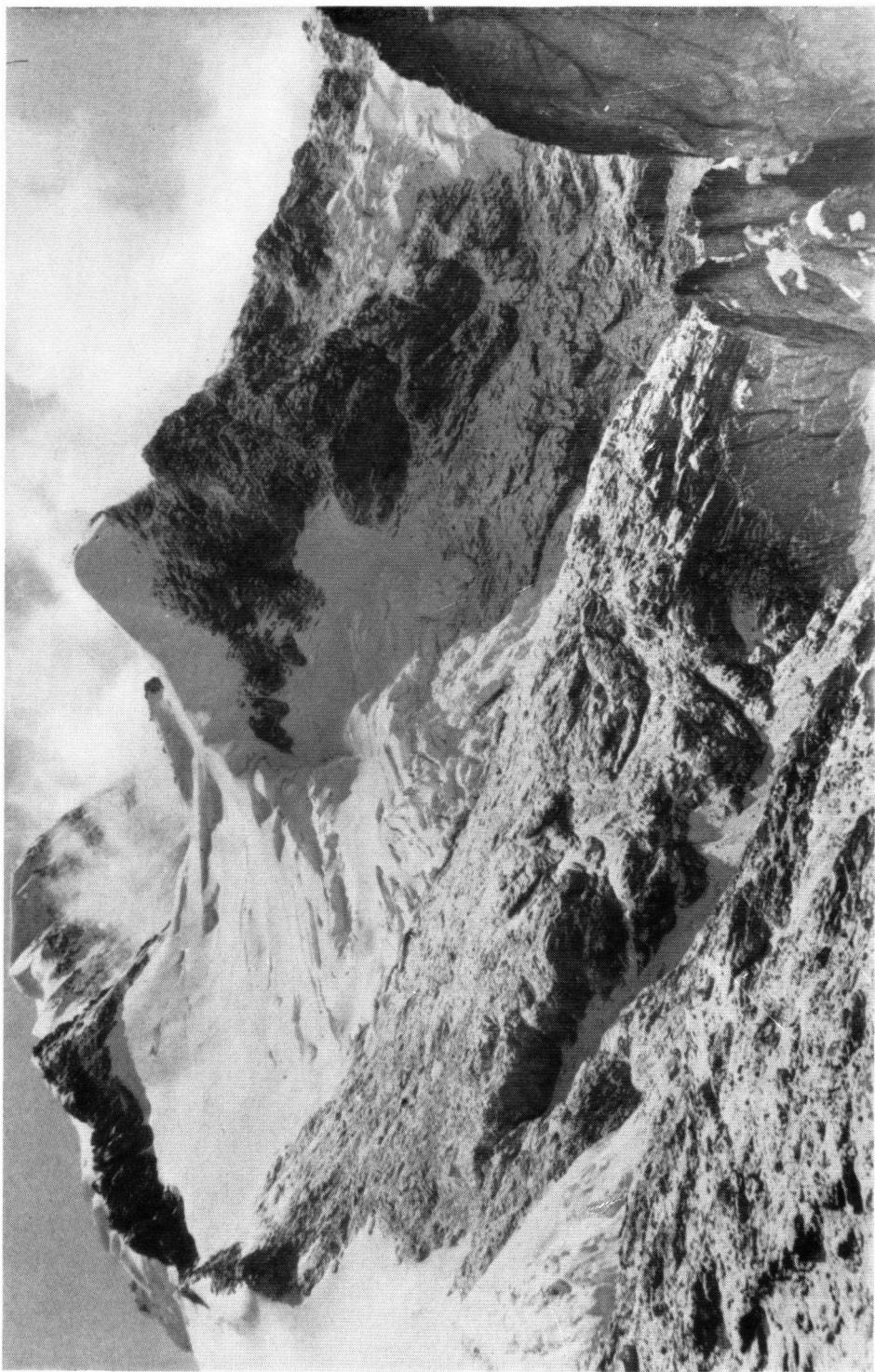
Tree of *Vaccinium floribundum* H.B.K., in the Vaccinion of a small valley
at 3,500 m in Paramo de Palacio



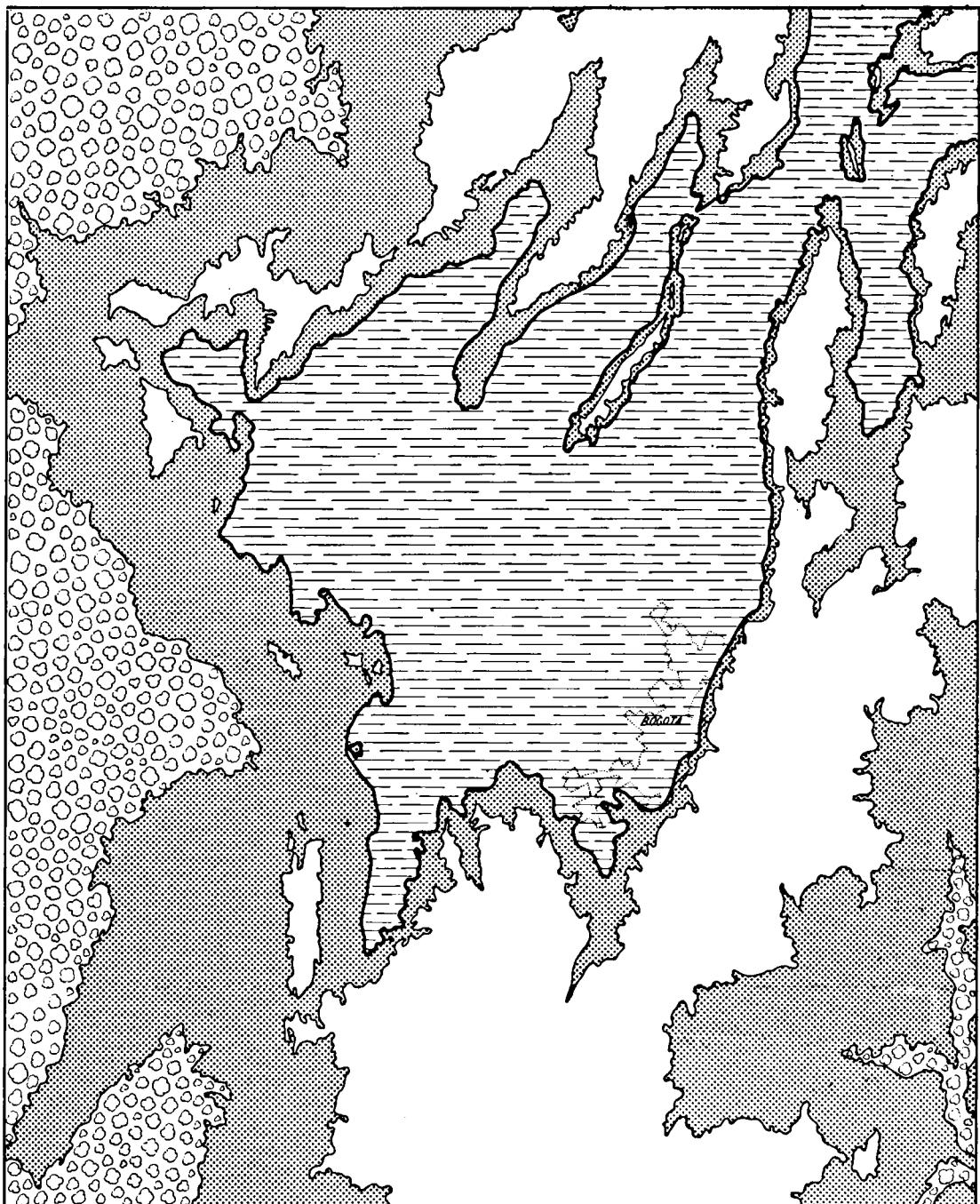
Glacial valley at 3,600 m in Páramo de Palacio. View towards the west.



Big terminal moraine of the late Würm, at $\pm 3,650$ m in the valley of the Rio Donachuy, Sierra Nevada de Santa Marta



Glacier below the Pico de La Reina (5,535 m), Sierra Nevada de Santa Marta. The glaciers in this region end at an altitude of approximately 4,900 m.



SABANA DE BOGOTA

MAPA DE NIEVES PERPETUAS Y
VEGETACION, DURANTE EL MAXIMO
DE LA GLACIACION RISS I

MAP OF ETERNAL SNOW AND
VEGETATION DURING THE MAXIMUM
OF THE RISS I GLACIATION

ESCALA-SCALE

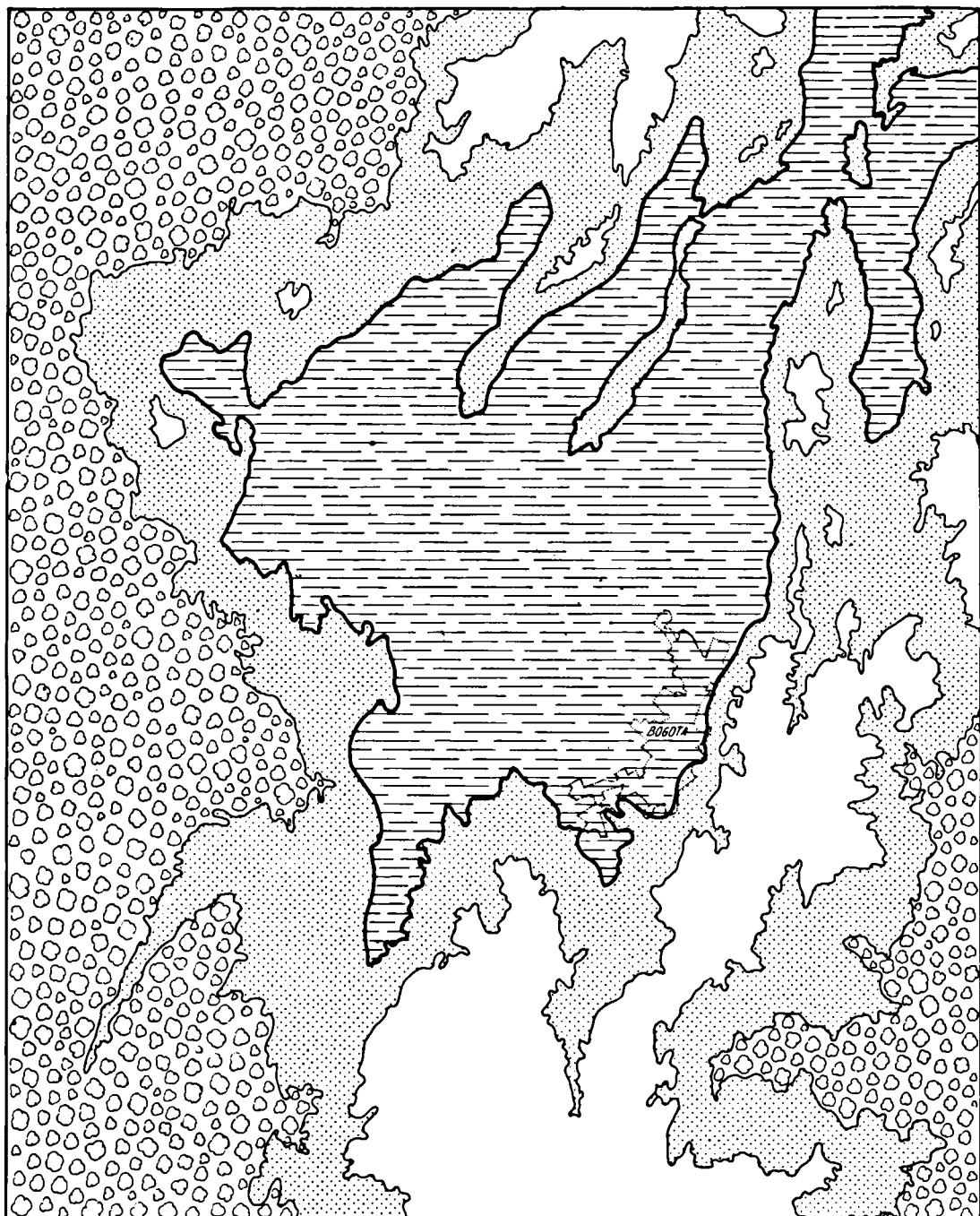
0 5 10 15 20 Km

Nieves perpetuas
Eternal snow

Páramo
Vegetacion principalmente abierta
Principally open vegetation

Bosque
Forest

Laguna de la sabana
Sabana lake



SABANA DE BOGOTÁ

MAXIMO DE LA GLACIACION
WÜRM (PLENIGLACIAL II, 1º Y
2º MINIMO DE TEMPERATURA)

MAXIMUM OF THE WÜRM-
GLACIATION (PLENIGLACIAL II, 1st AND
2nd TEMPERATURE MINIMUM)

ESCALA-SCALE

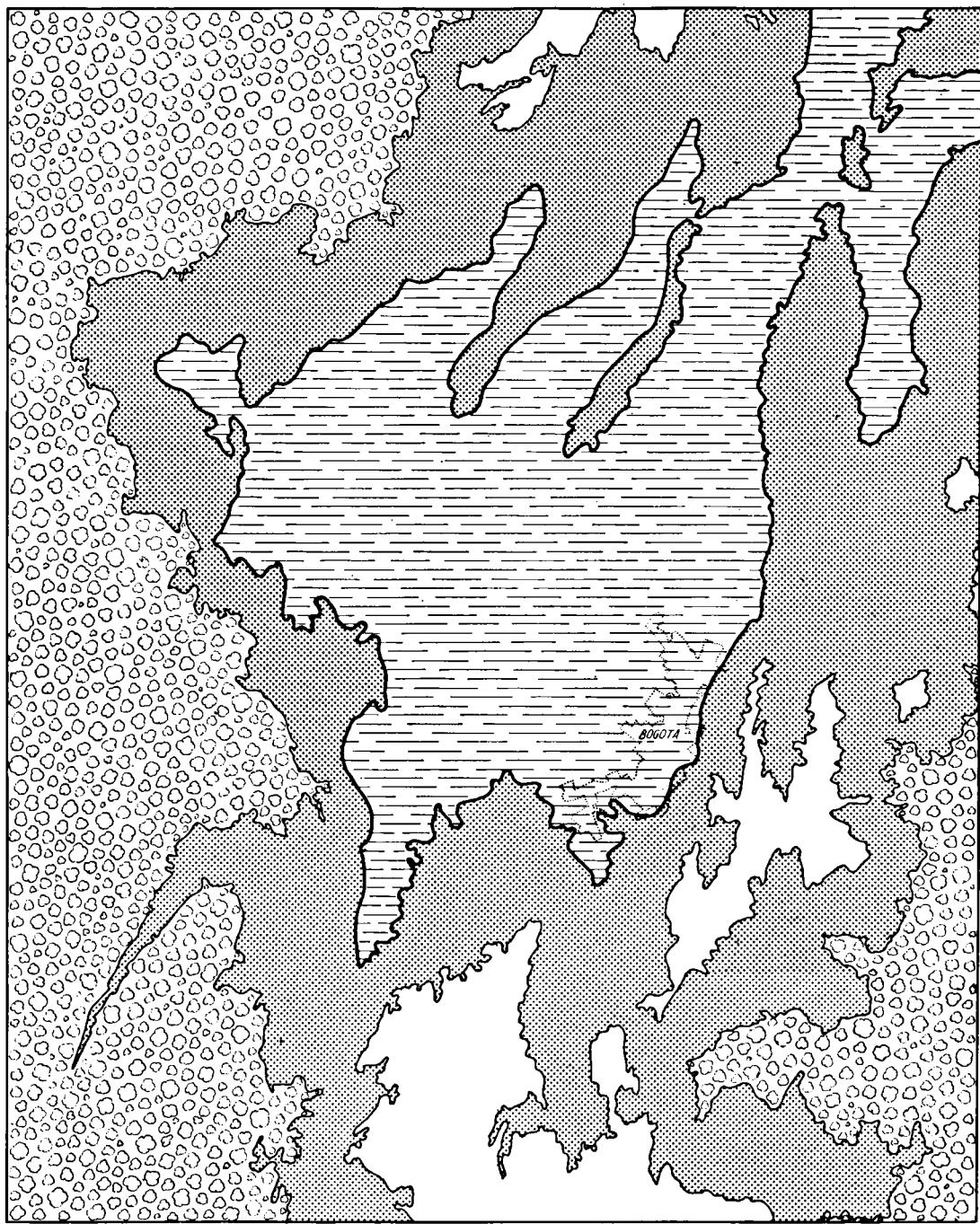
0 5 10 15 20 Km

Nieves perpetuos
Eternal snow

Bosque
Forest

Páramo
Vegetación principalmente abierta
Principally open vegetation

Laguna de la sabana
Savanna lake

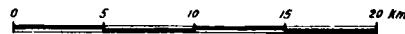


SABANA DE BOGOTA

DURANTE EL 3º MINIMO DE
TEMPERATURA DEL PLENIGLACIAL II,
DEL GLACIAL WÜRM

DURING THE 3rd. TEMPERATURE
MINIMUM OF THE PLENIGLACIAL II,
OF THE WÜRM - GLACIAL

ESCALA - SCALE

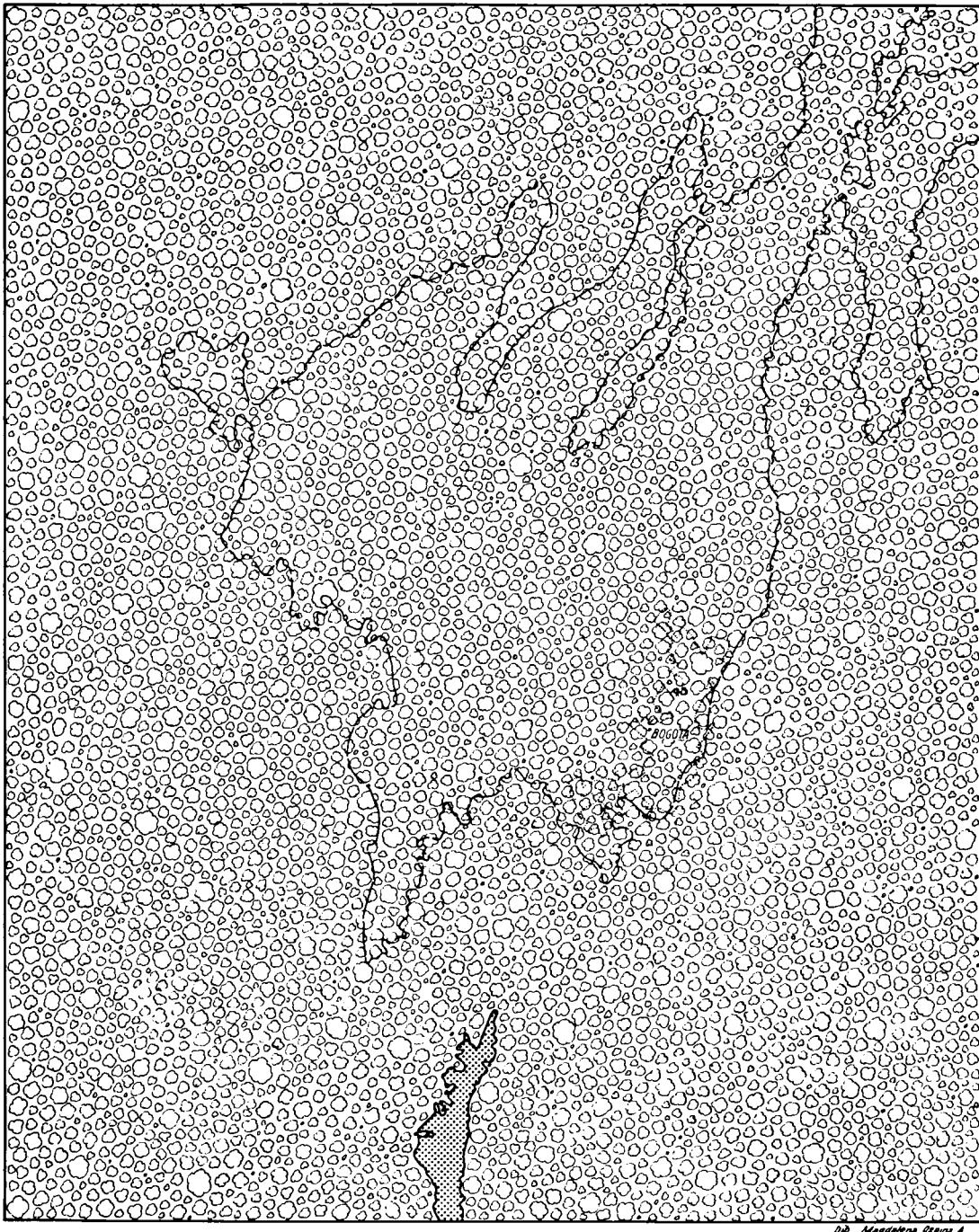


Nieves perpetuas
Eternal snow

Paramo
Vegetación principalmente abierta
Principally open vegetation

Bosque
Forest

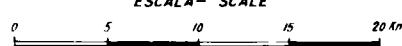
Laguna de la sabana
Savanna lake



SABANA DE BOGOTA
EN EL OPTIMO CLIMATICO DEL
HOLOCENO

AT THE CLIMATIC OPTIMUM
OF THE HOLOCENE

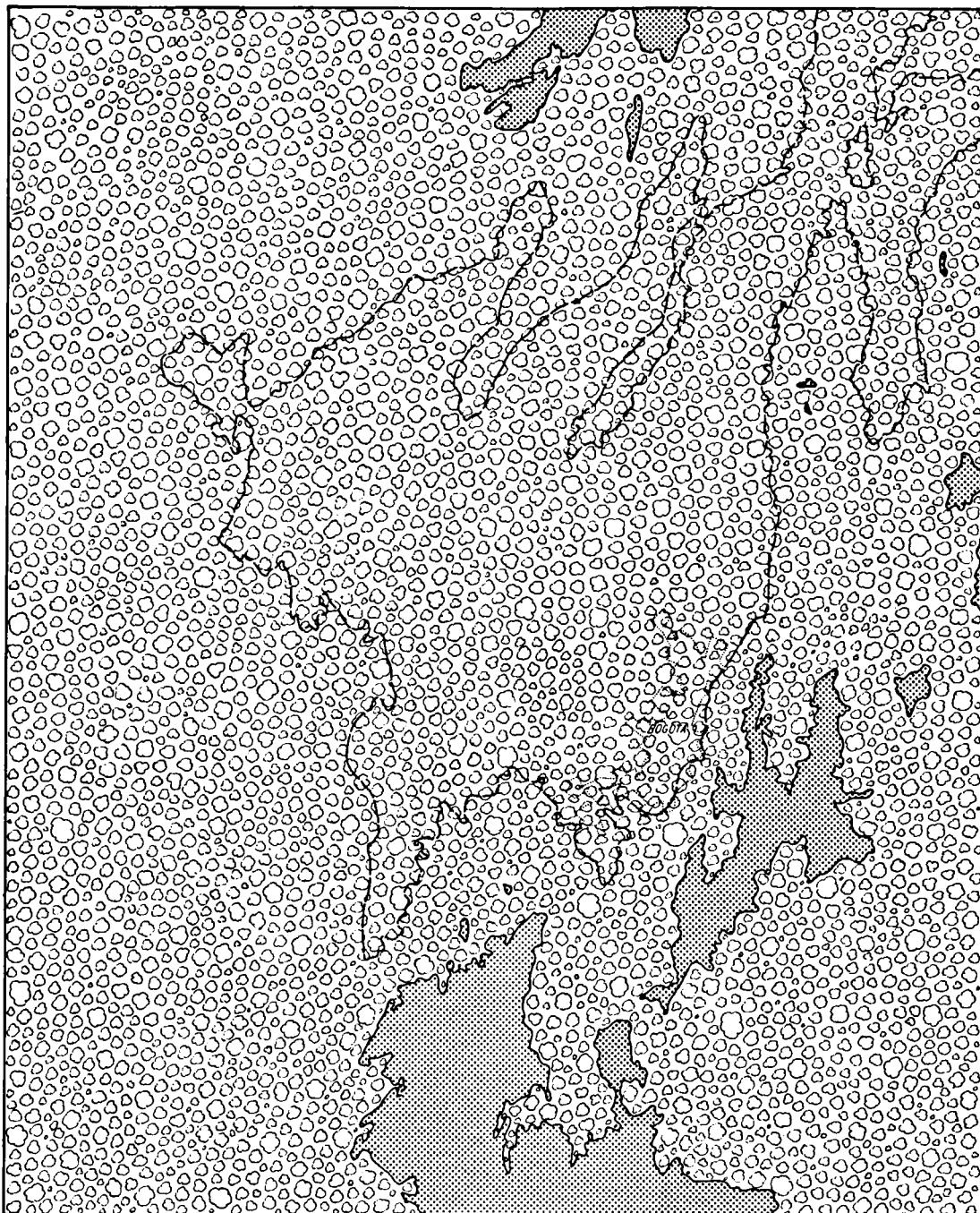
ESCALA - SCALE



Páramo
Vegetación principalmente abierta
Principally open vegetation



Bosque
Forest

*Dra. Magdalena Arango A.*

SABANA DE BOGOTA
MAPA DE LA VEGETACION
ACTUAL

(la influencia del hombre fué eliminado)

MAP OF THE PRESENT DAY
VEGETATION

(human influence eliminated)

ESCALA - SCALE

0 5 10 15 20 Km.



Páramo
Vegetacion principalmente abierta
Principally open vegetation



Bosque
Forest

MAPA DE CURVAS DE NIVEL DE LA SABANA DE BOGOTA Y ALREDEDORES

(Topografía según mapas del Instituto Geográfico "Agustín Codazzi")

ESCALA - SCALE

1 : 100.000

CONTOUR-LINE MAP OF THE SABANA DE BOGOTA AND SURROUNDINGS

(Topography according to maps of the Institute Geográfico "Agustín Codazzi")

