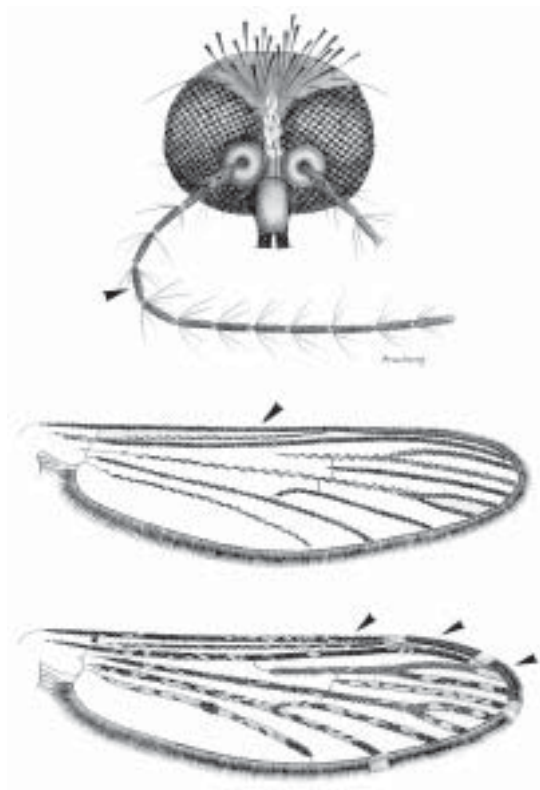
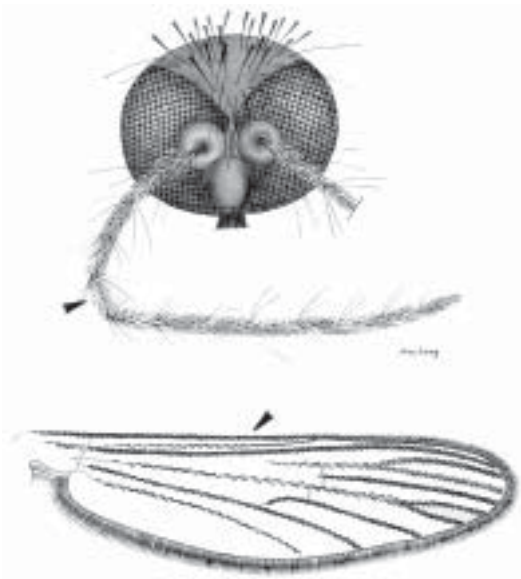


KEY TO THE SUBGENERA OF *ANOPHELES*  
ADULT FEMALES

Characters: Scutellum evenly rounded; maxillary palpus approximately same length as proboscis

1. Antennal flagellomeres with dense covering of long pale sensilla between whorls that provide fuzzy appearance
2. Wing entirely dark-scaled

1. Antennal flagellomeres with or without sparse covering of long pale sensillae between whorls, without dense covering of long pale sensillae
2. Wing entirely dark or spotted with pale and dark marks



Subgenus *Baimaia*  
*An. kyondawensis*

↳ To PLATE 2

PLATE 2

From PLATE 1: Antennal flagellomeres with or without sparse covering of long pale sensillae between whorls, without dense covering of long pale sensillae; wing entirely dark or spotted with pale and dark marks



- Wing entirely dark- scaled (Aitkenii and Culiciformis Groups) or



- Wing with 3 dark marks involving both costa and veins R-R<sub>1</sub> (Albotaeniatus, Asiaticus, Barbirostris, Hyrcanus, Umbrosus Groups, and *An. bulkleyi*) or



- Wing with 4 dark marks on costa but veins R-R<sub>1</sub> with not more than 3 dark areas, accessory sector pale (ASP) spot absent (Lindesayi Group)



Subgenus *Anopheles*

↳ To PLATE 3

- Wing with 4 or more dark marks involving both costa and veins R-R<sub>1</sub>, accessory sector pale (ASP) spot present on costa and/or subcosta, **and/or** R<sub>1</sub>

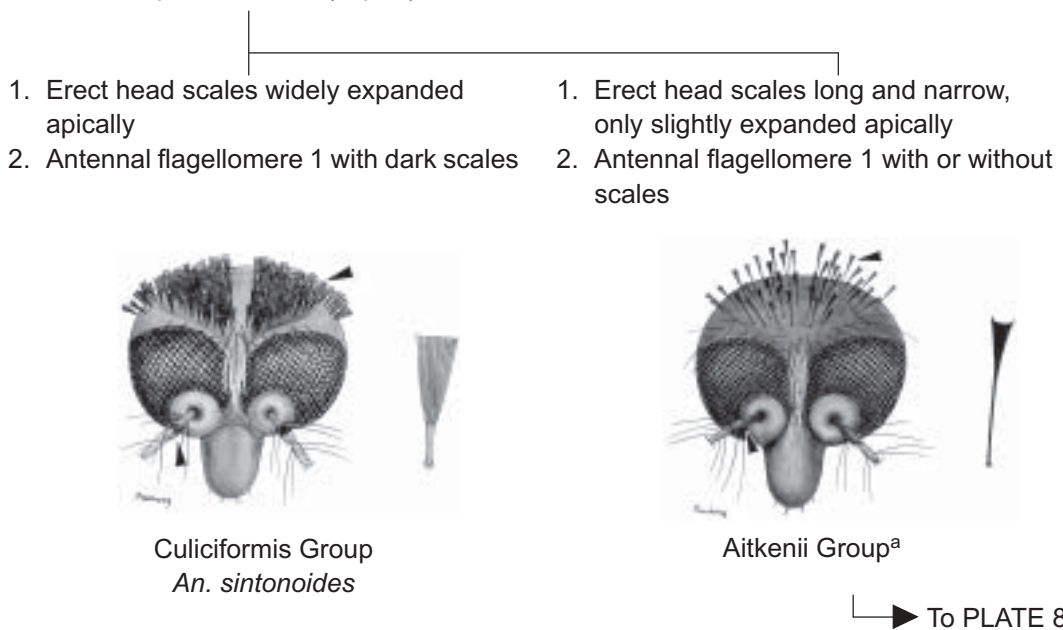
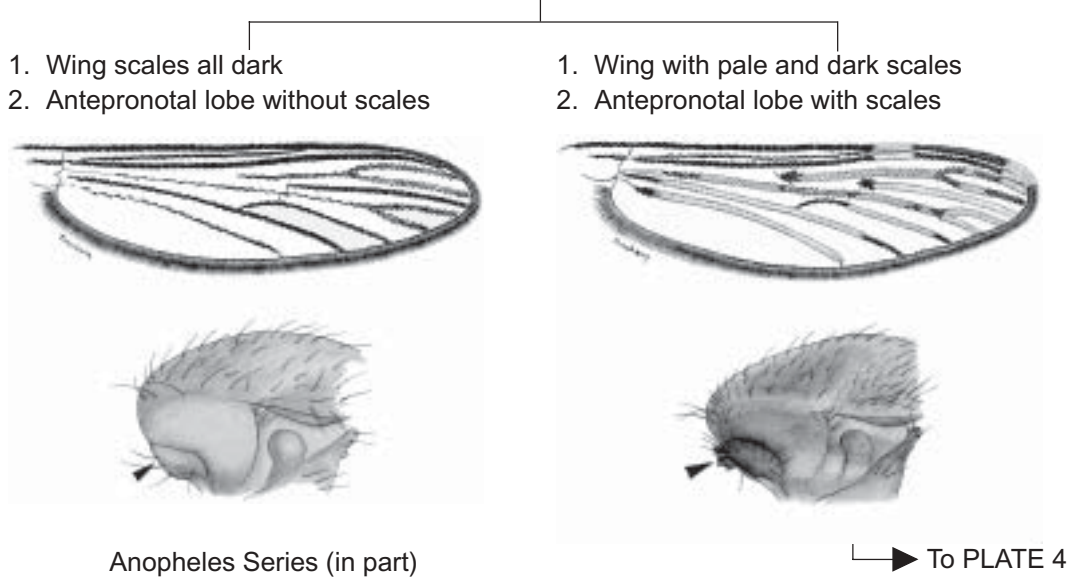


Subgenus *Cellia*

↳ To PLATE 19

KEY TO THE SERIES AND THE SPECIES GROUPS OF SUBGENUS  
*ANOPHELES*  
ADULT FEMALES

From PLATE 2: Wing entirely dark-scaled, with 3 dark marks involving both costa and veins R-R<sub>1</sub>, or with 4 dark marks on costa, but veins R-R<sub>1</sub> with not more than 3 dark areas, accessory sector pale (ASP) spot absent



<sup>a</sup>*Anopheles aberrans*, *An. bengalensis*, *An. fragilis*, *An. insulaeflorum*, *An. palmatus*, *An. stricklandi*, and *An. tigerti*.

From PLATE 3: Wing with pale and dark scales; antepronotal lobe with scales

Legs with tuft of dark scales on hindfemur or on tarsomeres of mid- and hindleg

Legs without tuft of dark scales on hindfemur or on tarsomeres of mid- and hindleg

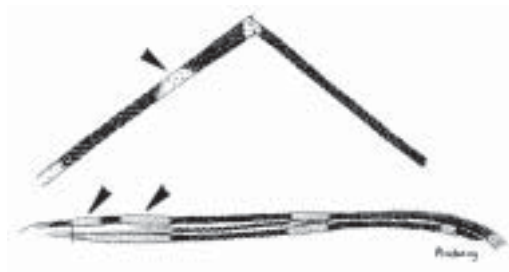
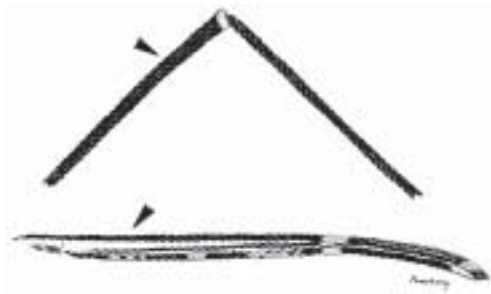


Lophoscelomyia Series  
Asiaticus Group and *An.bulkleyi*  
(unassociated species)

↳ To PLATE 5

1. Hindfemur without distal broad preapical white band
2. Costa without presector pale (PSP) spot

1. Hindfemur with distal broad preapical white band **or**
2. Costa with presector pale (PSP) and humeral pale (HP) spots



Myzorhynchus Series<sup>a</sup>

Anopheles Series (in part)  
Lindesayi Group

↳ To PLATE 6

↳ To PLATE 7

<sup>a</sup>Albotaeniatus, Barbirostris, Hyrcanus, and Umbrosus Groups.

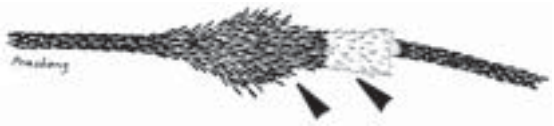
## KEY TO THE SPECIES OF THE LOPHOSCELOMYIA SERIES ADULT FEMALES

From PLATE 4: Legs with tuft of dark scales on hindfemur or on tarsomeres of mid-and hindlegs

Legs with clusters of erect dark scales on tarsomere 2 of midleg and tarsomeres 1 and 2 of hindleg

Legs with erect scales only on hindfemur, as prominent tuft of scales on apical 0.25- 0.33 (black proximally and white distally)

No specimens available

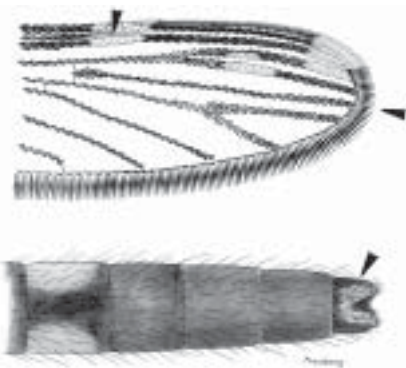


*An. bulkleyi*<sup>a</sup>  
(Unassociated species)

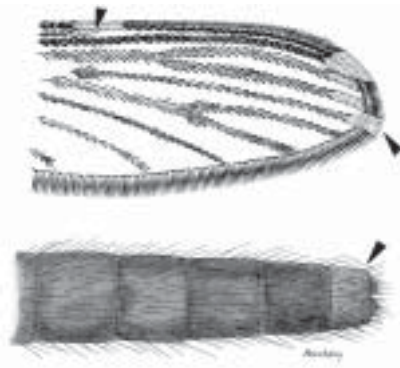
Asiaticus Group

1. Wing apex without pale fringe spot at vein R<sub>4+5</sub>
2. Subcostal pale (SCP) spot of costa extending onto vein R<sub>1</sub>
3. Abdominal tergum VIII with pale golden scales

1. Wing apex with narrow pale fringe spot at vein R<sub>4+5</sub>
2. Subcostal pale (SCP) spot, when present, confined to costa and tip of subcosta
3. Abdominal tergum VIII without pale scales



*An. asiaticus*



*An. interruptus*

<sup>a</sup>Only known from a single male (type specimen) which was lost.

From PLATE 4: Hindfemur without distal broad preapical white band; costa without presector pale (PSP) spot

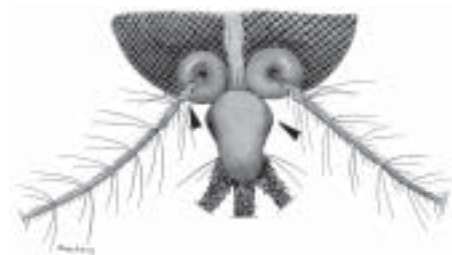
1. Clypeus with patch of dark scales on each side
2. Basal 4-8 antennal flagellomeres with pale scales



Hyrcanus Group<sup>a</sup>

↳ To PLATE 15

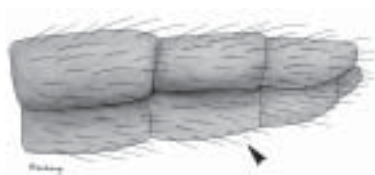
1. Clypeus without patch of dark scales
2. Only antennal flagellomere 1 with pale scales



Barbirostris Group<sup>b</sup>

↳ To PLATE 12

Sternum VII without tuft of black scales



Albotaeniatus Group  
*An. montanus*

Sternum VII with tuft of black scales



Umbrosus Group<sup>c</sup>

↳ To PLATE 9

Hindtarsomere 5 all white



Hindtarsomere 5 dark-scaled



<sup>a</sup> *Anopheles argyropus* A and B, *An. crawfordi* A and B, *An. nigerrimus* A and B, *An. nitidus*, *An. paraliae*, *An. peditaeniatus*, *An. pursati*, and *An. sinensis* A and B.

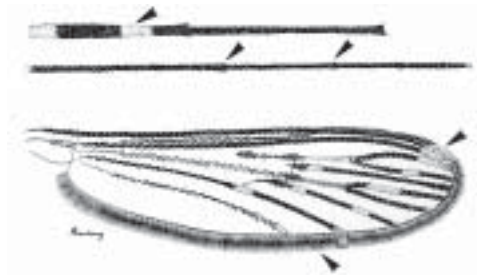
<sup>b</sup> *Anopheles barbirostris* A, B, and C, *An. barbumbrosus*, *An. campestris*, *An. donaldi*, *An. hodgkini*, and *An. pollicaris*.

<sup>c</sup> *Anopheles baezai*, *An. letifer*, *An. roperi*, *An. separatus*, *An. umbrosus*, and *An. whartoni*.

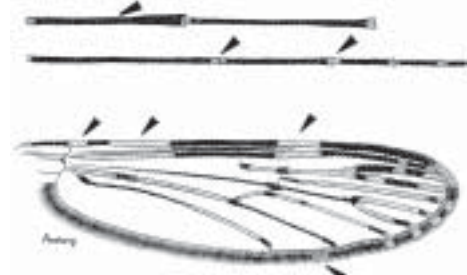
KEY TO THE SPECIES OF THE LINDESAYI GROUP  
ADULT FEMALES

From PLATE 4: Hindfemur with distal broad preapical white band or costa with presector pale (PSP) and humeral pale (HP) spots

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Hindfemur with broad preapical pale band, tarsi all dark</li> <li>2. Costa with not more than 2 pale spots, apical pale (AP) <b>and/or</b> subcostal pale (SCP) spots</li> <li>3. Wing usually without pale fringe spot between veins CuA and vein 1A</li> </ol> | <ol style="list-style-type: none"> <li>1. Hindfemur without broad preapical pale band, tarsi with pale bands</li> <li>2. Costa with 3 or more pale spots including presector pale (PSP) and humeral pale (HP) spots</li> <li>3. Wing usually with pale fringe spot between veins CuA and vein 1A<sup>a</sup></li> </ol> |
|--|---|



Lindesayi Subgroup  
*An. lindesayi cameroneensis*



Gigas Subgroup

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Wing margin with pale fringe spots at veins R<sub>1</sub>, R<sub>2</sub>, R<sub>4+5</sub>, M<sub>1</sub>, M<sub>2</sub>, and M<sub>3+4</sub></li> <li>2. Vein 1A with two dark spots (long spot at base and short spot at apex)</li> </ol> | <ol style="list-style-type: none"> <li>1. Wing margin with pale fringe spots at vein R<sub>1</sub> and R<sub>2</sub></li> <li>2. Vein 1A entirely dark</li> </ol> |
|--|---|



n. sp. near *An. gigas*<sup>b</sup>



*An. baileyi*<sup>c</sup>

<sup>a</sup>This character is difficult to see on some specimens.

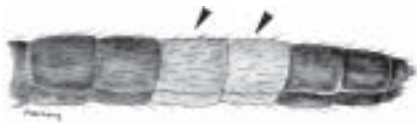
<sup>b</sup>This species found on top of a mountain, Phu Kra Dung, Loei Province.

<sup>c</sup>This species found on top of a mountain, Doi Inthanon, Chiang Mai Province.

KEY TO THE SPECIES OF THE AITKENII GROUP  
ADULT FEMALES

From PLATE 3: Erect head scales long and narrow, only slightly expanded apically; antennal flagellomere 1 with or without scales

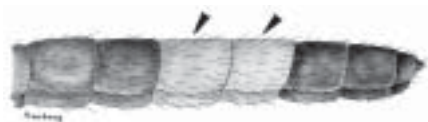
Abdominal segments IV or IV and V distinctly paler than other segments



All abdominal segments unicolorous paler than other segments



Abdominal segments IV and V pale



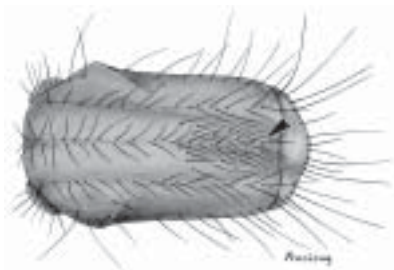
*An. aberrans* (in part, 75%)

Only abdominal segment IV pale



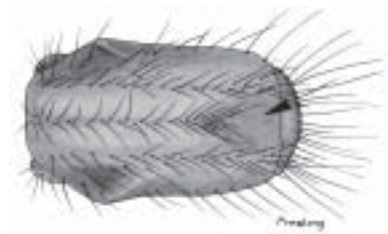
*An. palmatus* (in part, 75%)

Prescutellar space with short fine setae reaching scutellum



*An. insulaeflorum*

Prescutellar space with distinct median bare area immediately cephalad of scutellum



*An. aberrans* (in part, 25%), *An. bengalensis*,  
*An. fragilis*, *An. palmatus* (in part, 25%),  
*An. stricklandi*, and *An. tigerti*