

A key to the characteristic adult males of Seebach (Lunz) Chironomidae

Peter-Eric SCHMID

Key to the subfamilies

- 1. Cross vein m-cu present (fig.a) ... 2
- Cross vein m-cu lacking ... 5

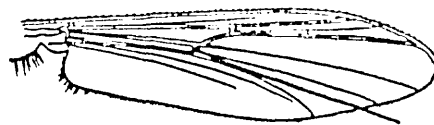


fig.a

- 2. Vein R2+3 present and simple (fig.a), wing membrane bare. Last antennal segment longer than any of the preceding segments.... 3

- Vein R2+3 present and forked or absent.(fig.b)
Wing membrane covered with macrotrichia.... 4

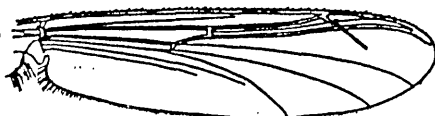


fig.b

- 3. f-cu proximal to m-cu.(fig.a) --- DIAMESINAE ... p.
- 4. R2+3 present and forked.R1 and R4+5 in close proximity. --- TANYPODINAE
- R2+3 absent, r1 and R4+5 separated. --- PODONOMINAE ... p.
- 5. Anterior leg ratio ≤ 1.0. Gonostylus bent inwards -- ORTHOCLADIINAE
- Anterior leg ratio >math>1.0</math>. Gonostylus directed backwards.--CHIRONOMINAE

Key to TANYPODINAE

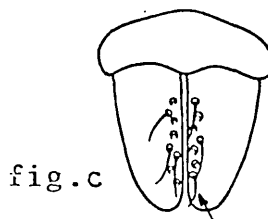
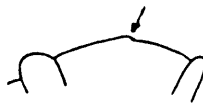


fig.c

- 1. Postnotum with a double row of long bristles medially (fig.c)2
- Postnotum bare 3



- 2. Scutum with a small median hump.(fig.d)
Wing membrane with distinct dark markings. fig.d.
Gonocoxite with a small lobe.(fig.e)¹.....Macropelopia notata

- 3. Gonocoxite with a basal lobe ... 4,5
- Gonocoxite without a basal lobe 6

- 4. Third segment of mid-tarsus with a distal group of strongly developed setae.(fig.f) Scutum with a small median hump.
Processes of gonocoxite lobe expanded subapically (fig.g)¹ ...Conchapelopia pallidula

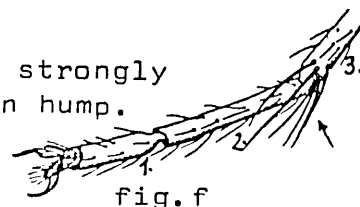


fig.f

1 these figures in the annex

5. Femora with a dark brown ring apically. Cross-veins darkened. Anterior margin of third abdominal tergite with a pair of dark spots. (fig.h) Hypopygium fig.i¹....Thienemannimyia laeta



fig.h

6. Wing membrane unmarked. Eyes pubescent...¹.....Nilotanypus dubius
Hypopygium fig.j¹.

-- Eyes bare ?

- 7- Hind-tibia without apical combs. Tibial spurs as in fig.k. Hypopygium fig.l¹.Trissopelopia longimana



fig.k

- Hind-tibia with a comb. Main tooth of spur of hind tibial comb short, scarcely longer than accessory teeth. (fig.m) Hypopygium fig.n¹.Zavrelimyia signatipennis

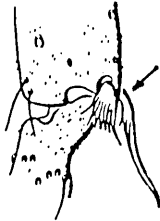


fig.m

Key to PODONOMINAE

1. Gonostylus simple. Basal lobe with long styli-like appendages. Hypopygium fig.o¹.Paraboreochlus minutissimus

Key to DIAMESINAE

1. Eyes strongly produced dorsally. Hypopygium with an anal point. (fig.p¹)
Wing membrane with macrotrichia distally....Pseudodiamesa branckii
- Eyes not produced dorsally. Wing membrane with macrotrichia.
Hypopygia fig.q¹,r¹,s¹,t¹..... Diamesa cinerella, D. thien, D.Hamat.
D.insigni.
- Wing membrane without macrotrichia....Potthastia montium
Potthastia longimanus

Key to ORTHOCLADIINAE

- 1. Wing membrane with macrotrichia2
- Wing membrane without macrotrichia8

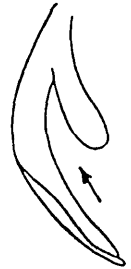


fig.1

- 2. Gonostylus bifurcate.(fig.1)3
- Gonostylus simple....4

3.Outer branch of gonostylus about twice as long as inner branch.(fig.1).Hypopygium fig.1a')....Brillia longifurca

--The gonostyli's branches equal in length.

Hypopygium fig.2aBrillia modesta

4. Eyes bare5

5. Vein cu2 strongly curved(fig.3)....6

-- Vein cu2 almost straight(fig.4)....7



fig.3

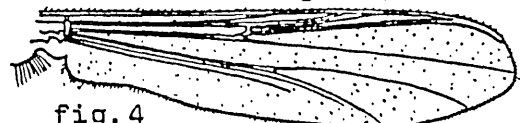


fig.4

6. Vein R4+5 ending above tip of cu1.(fig.5)

Hypopygium fig.5a.....Parametricnemus stylatus

--Vein r4+5 ending proximal to tip of cu1.(fig.3)

Hypopygium fig.6a.....Paraphaenocladus sp.



fig.5



fig.7

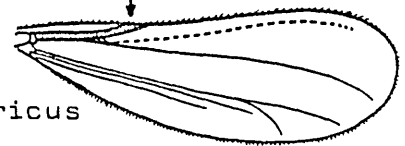
7. Costa ending abruptly at tip of vein r4+5.(fig.7)

Hypopygium fig.7a Heterotrissocladus marcidus

-- Costa produced beyond r4+5.

Antennal ratio at least 1.5.Haltera darkish.

Hypopygium fig.7a1 Metriocnemus hygropetricus



8. Veins R1 and r4+5 fused with the costa9 (fig.8)

-- Veins r1 and r4+5 separate10

fig.8

9. Posterior tibia strongly expanded distally(fig.9)

Hypopygium fig.9a..... Corynoneura lobata

--tibia not as above..... Thienemanniella partita

Hypopygium fig.9a1

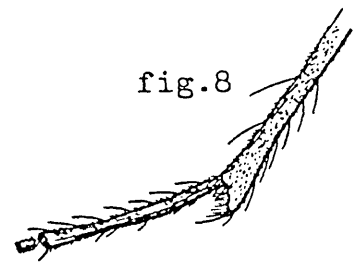


fig.9

') Fig 1a, 2a etc.: see tables p.

19. Scutum often bearing scale-like setae. (fig.22)
Wing membrane dotted with microtrichia. (fig.23)
Hypopygium fig.22/23a.....Limnophyes prolongatus



fig.22

- 20. Wing membrane coarsely granular in appearance (fig.23).
Anal point bearing strong setae laterally.
Hypopygium fig.24Paratrissocladius excerptus

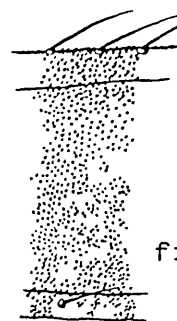


fig.23

- without these above characteristics. Wing membrane
bare..... 21
-- Anal point without lateral setae.
Costa not produced beyond r4+5. Anal point developed.
Hypopygium fig.25a.....Chaetocladius laminatus

21. Anal point bearing several lateral setae.
Scutum uniseral Orthocladius sp.
Scutum biseral (Eu)Orthocladius sp
Hypopygia fig.26a,27a,28a.

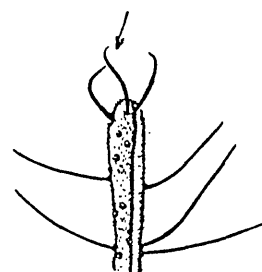


fig.29

- Anal point, if present lacking lateral setae. --- 22

22. Anal point short. Tip of antenna bearing
characteristic-curved long setae. (fig.29)
Hypopygium fig.29a. Synorthocladius semivirens

- Anal point absent, or if present its transparent.
Hypopygia fig.12-14a Eukiefferiella sp.

23. Hypopygium with a distinct anal point.....24

- Hypopygium without anal point or a short one.. 25

24. Anal point robust with lateral setae. Large humeral pits. (fig.30)
Hypopygia fig.30a,31a..... Rheocricotopus effusus
Rheocricotopus fuscus

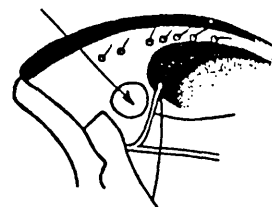


fig.30

- Anal point slender and bare. Humeral pits minute.
Hypopygium fig.32..... Nanocladius rectinervis

25. Anteprepronotum well developed. A.R. less than 2.0
Hypopygia fig.32a,33a..... Paratrichocladius
skirwithendis
Paratrichocladius rufiventris

- Dorso-central setae weak, nearly not visible.
Legs with pale rings. Often without anal point.
Hypopygium fig 34a..... Cricotopus curtus
Cricotopus sp.

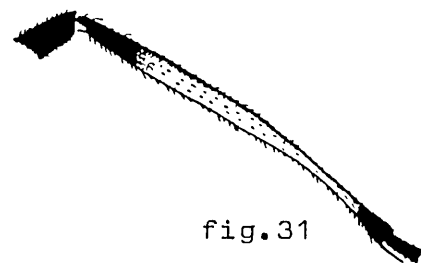


fig.31

Key to CHIRONOMINAE

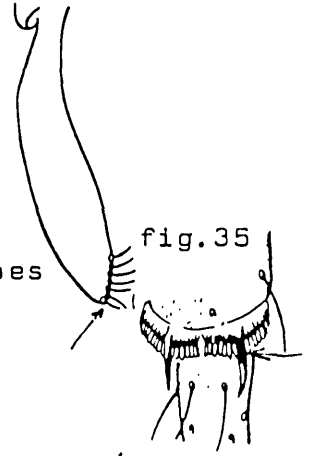
1. Wing membrane usually lacking macrotrichia, if macrotrichia are present then squama is fringed.....Tribe C h i r o n o m i n i ..2

-- Wing membrane with macrotrichia, sqqama bare..Tribe T a n y t a r s i n i 6

2.Wing mebrane with macrotrichia toward the tip ... 3

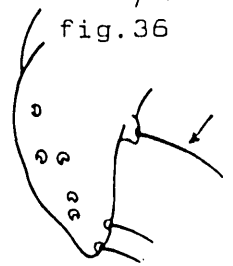
--Wing membrane bare..... 4

3. A.R. 2.0 or less.Gonostylus tapered distally.(fig.38) Posterior tibia with 2 short apical spurs.(fig.38) Gonostylus without long setae on inner side, except at tip.Hypopygium fig.35aPhaenopsectra flavipes

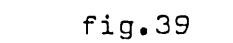


4.Squama with setae.One comb bearing a long spur, the other without spurs -----..... 5

5.Vein r2+3 ending well distal to r1(fig.37).Wing membrane with and without markings. Hypopygia fig.37a,38a..... Polypedilum albicorne Polypedilum apfelbecki



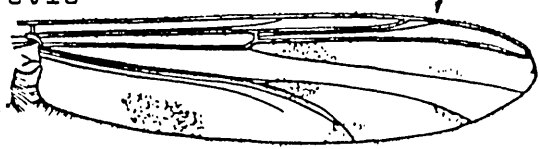
6.Combs of posterior tibia contiguous, without spurs. Appendage I with a basale tubercle bearing a long medially directed seta(fig. 39)Appendage 2a bears spoon-shaped setae. Hypopygium fig 39a, Micropsectra notescens 40a, Micropsectra atrofasciata 41a,Micropsectra attenuata



--Tibial combs well seperated, at least bearing one longish spur.....7

7.Wing membrane bare only distally covered with macrotrichia.Gonostylus rather short(fig.42) Hypopygium fig.42a..... Stempellinella brevis

fig.37



--Wing membrane entirely covered with macrotrichia;Gonostylus abruptly narrowed distally(fig.43). Hypopygium fig. 43a.....Rheotanytarsus nigricauda

fig.42

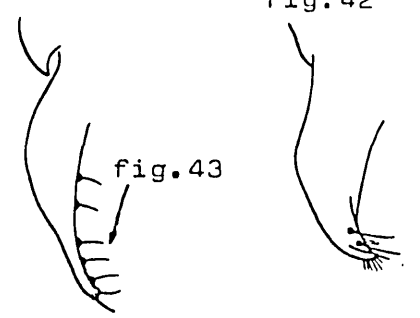


fig.43

Hypopygia of male chironomids
Hypopygien von Chironomiden-Männchen (siehe Text)

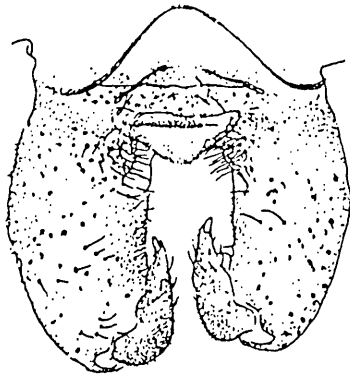


fig.e1 Macro.

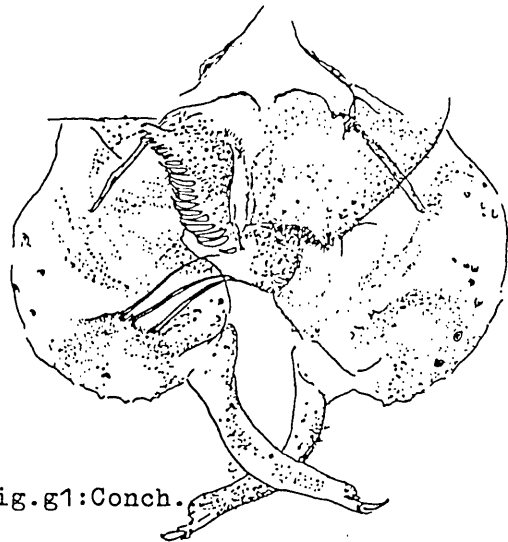


fig.g1:Conch.

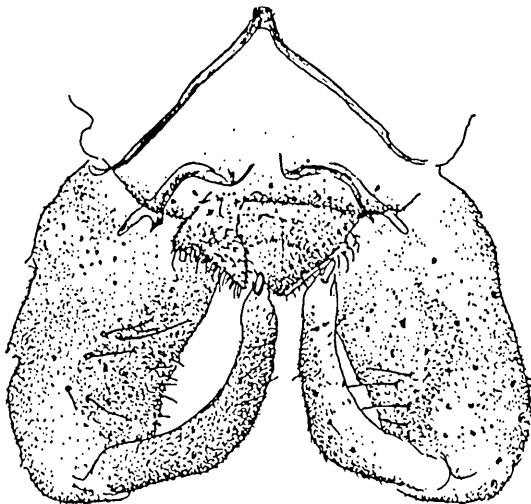


fig.i1 Thiene.

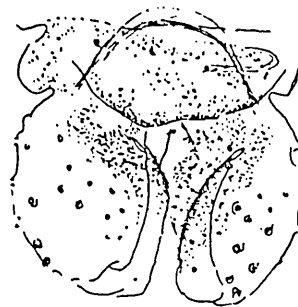


fig.j1 Nilo,

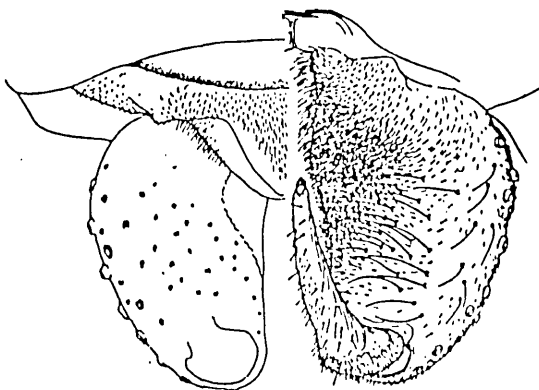


fig.l1 Trisso.

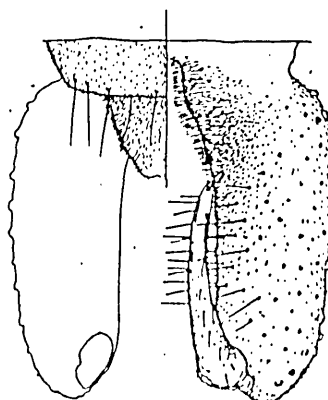


fig.n1 Zavrel.

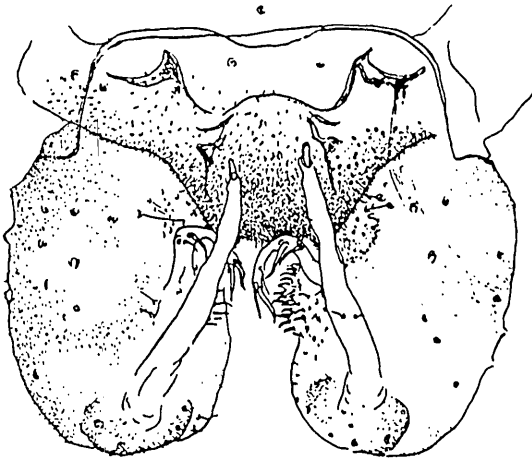
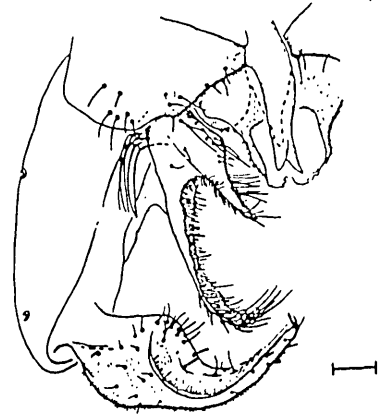


fig.o1 Parabor.



*fig.r1 *D. thienemanni*

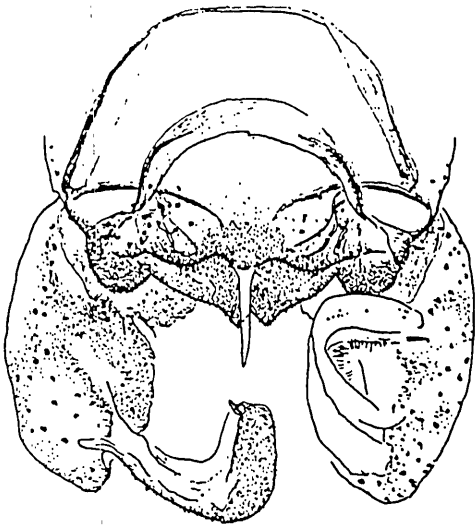


fig.p1 *Pseudodiam.*

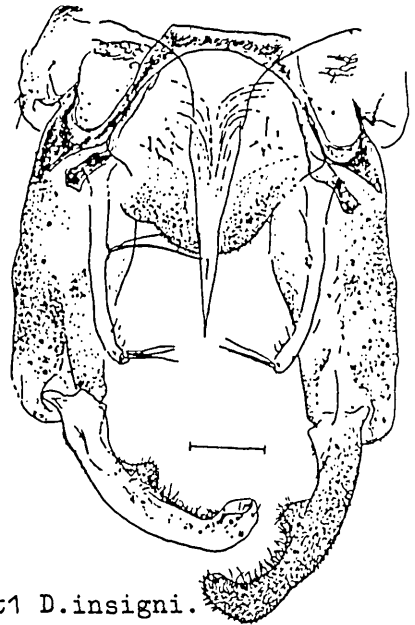


fig.t1 *D. insigni.*

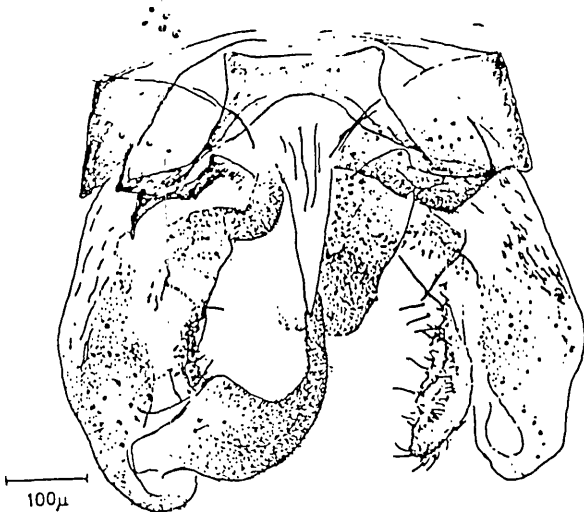


fig.q1 *D. cinerella*

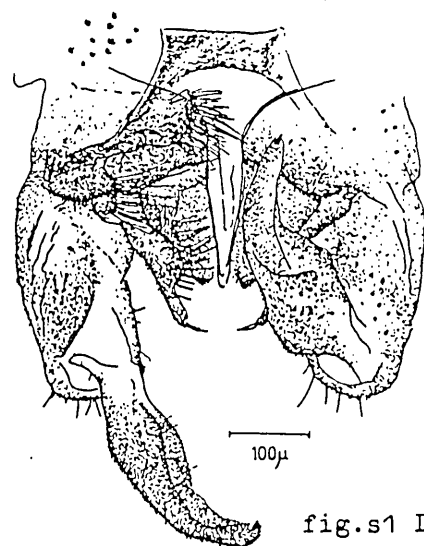


fig.s1 *D. hamati.*

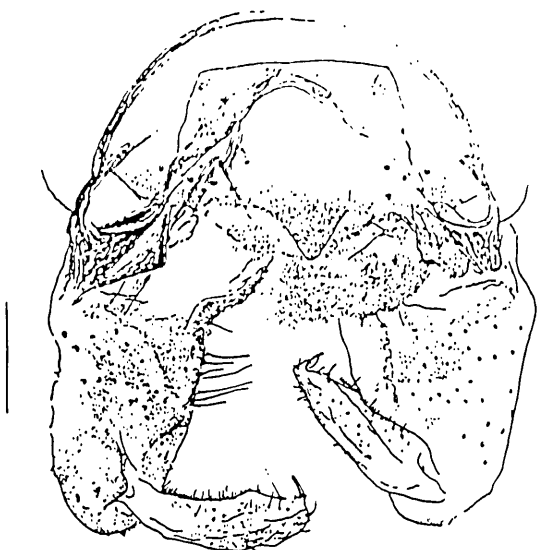


fig u1: *Potthastia montium*

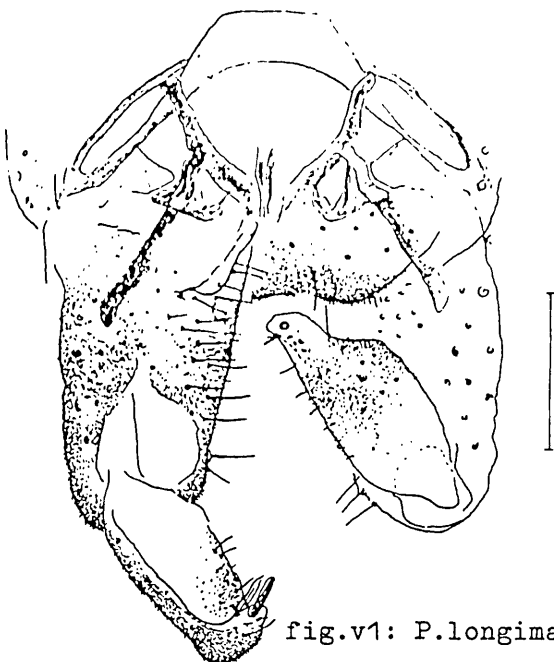


fig.v1: *P. longimanus*



*fig1a: *Brillia longifurca*

*fig2a: *B. modesta*

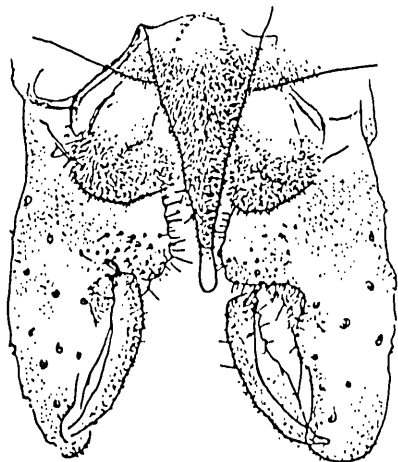


fig 5a: Paramet.

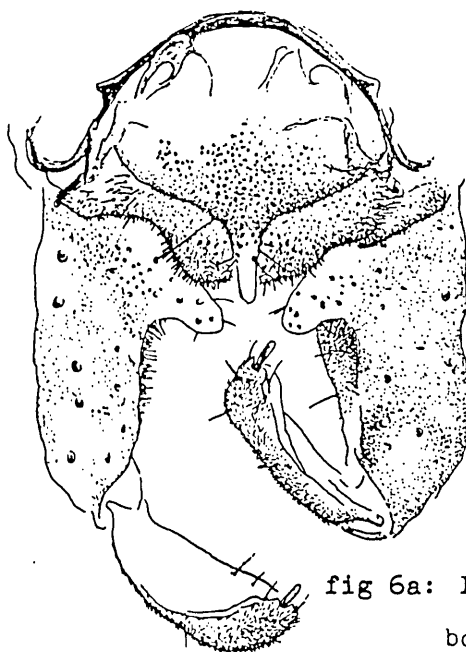


fig 6a: Parametr.
boreo.

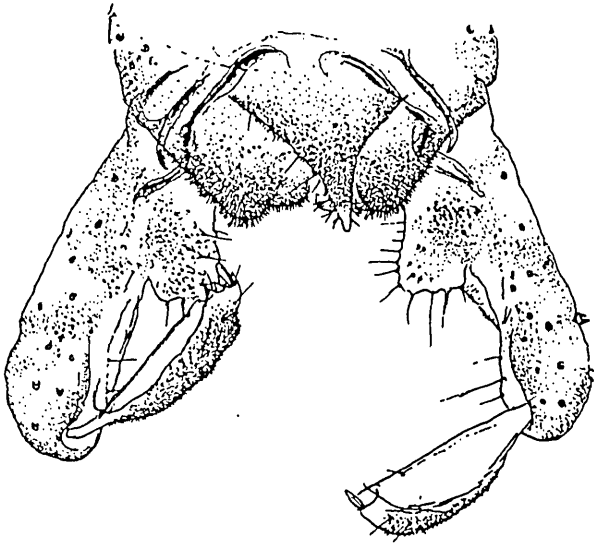


fig 7a: Heterotrisso.

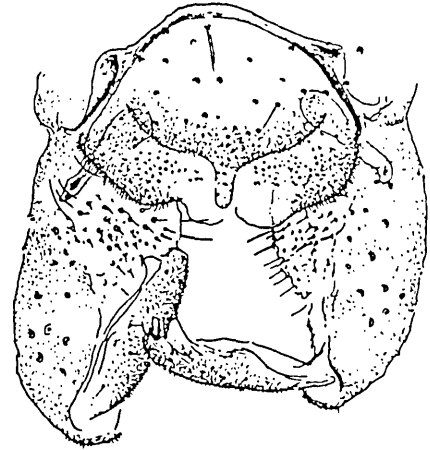
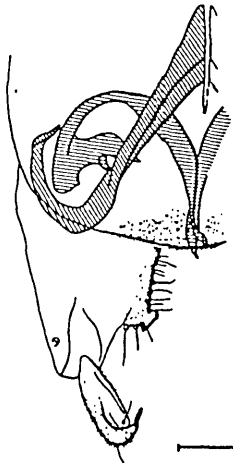


fig 7a1: Metriocnem.



*fig 9a: Coryn.

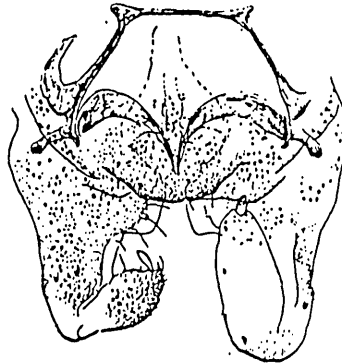


fig9a1: Thienemannia

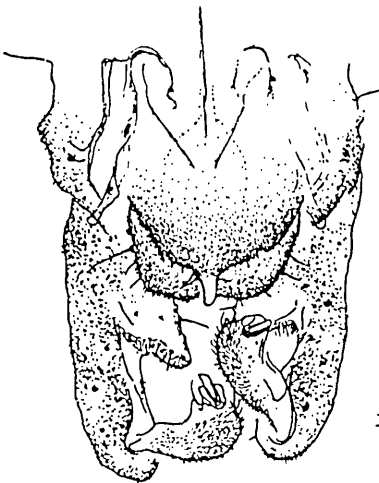


fig 10a: Helen.

100µ

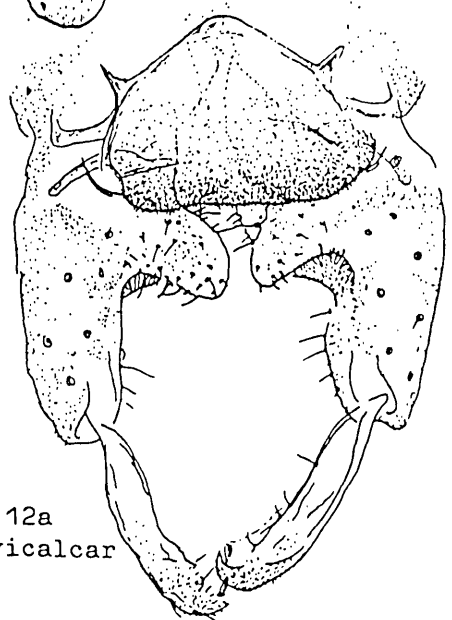


fig 12a
Eukiefferiella brevicalcar

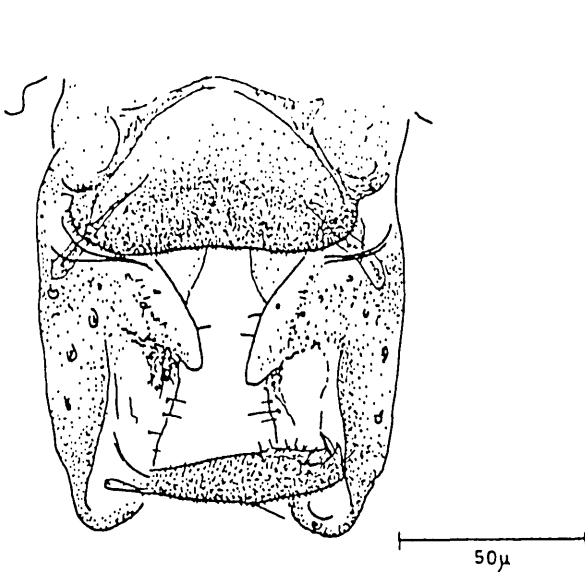


fig 13a: *E. coeruleascens*

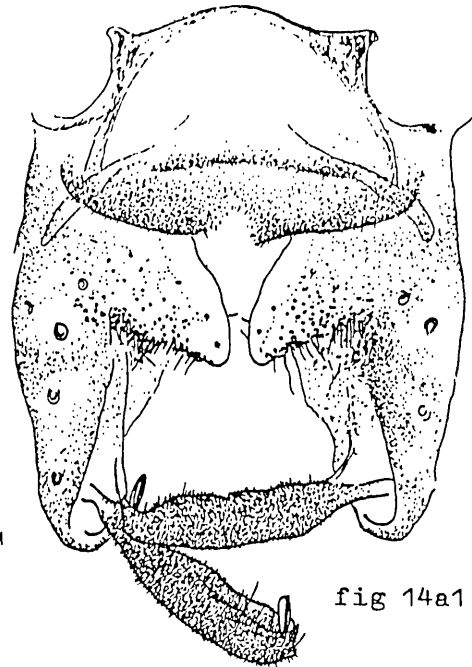


fig 14a1: *E. lobif.*

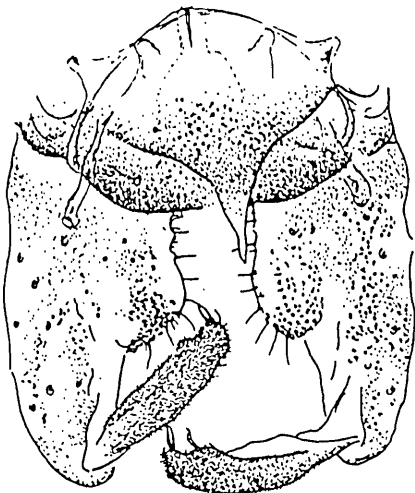


fig 14a2: *E. calvescens*(Tve.)

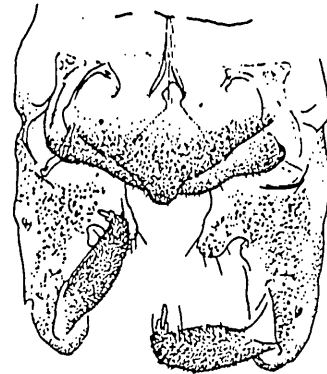


fig 17a: *Krenosmit.*

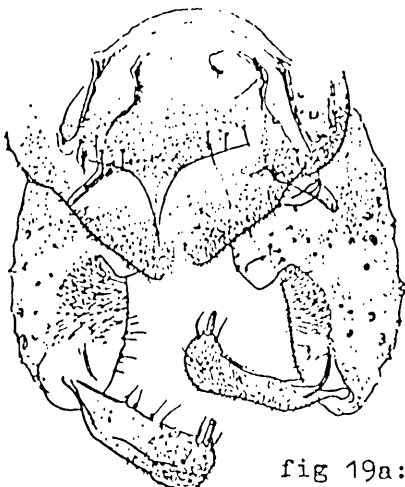
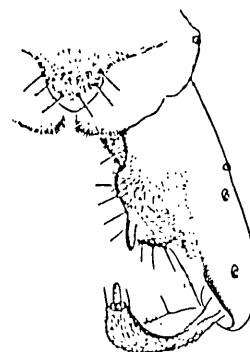


fig 19a: *Bryophaenocladus*



**fig 20a: *Parakief.*

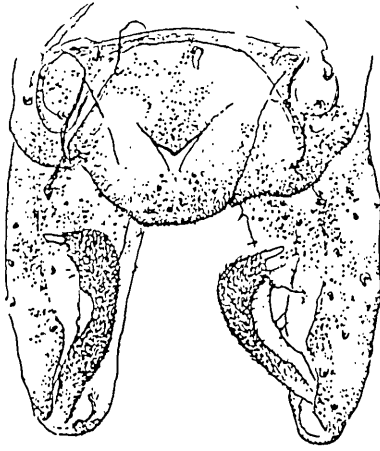


fig 21a : *Pseudosmittia recta*

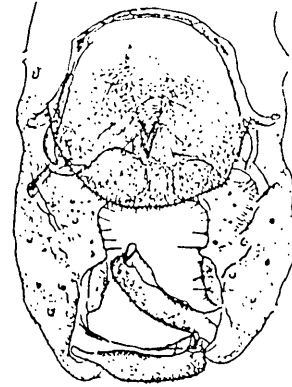


fig 21a1: *P. gracilis*

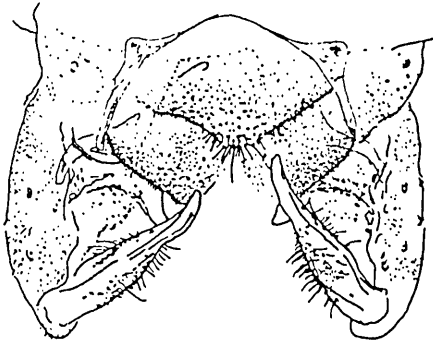


fig 22/23a: *Limnophyes prolongatus*

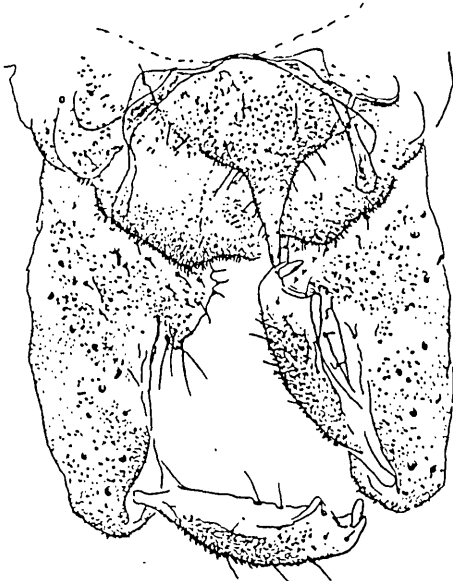


fig 24: *Paratrissoclad.*

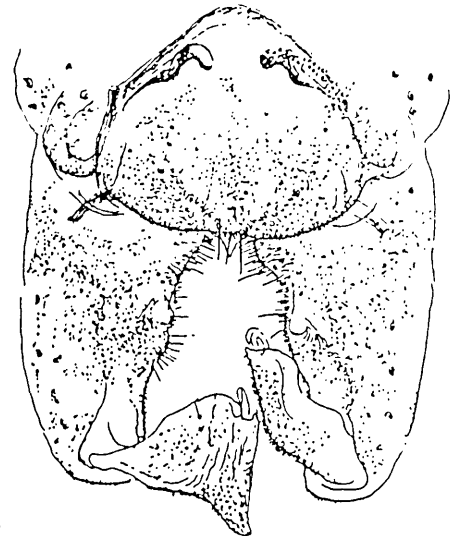


fig 25a: *Chaeto. laminat.*

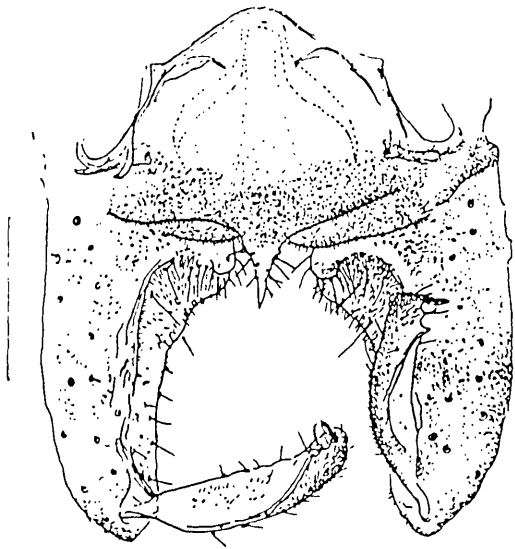


fig 26a: *Orthocladius excavatus*

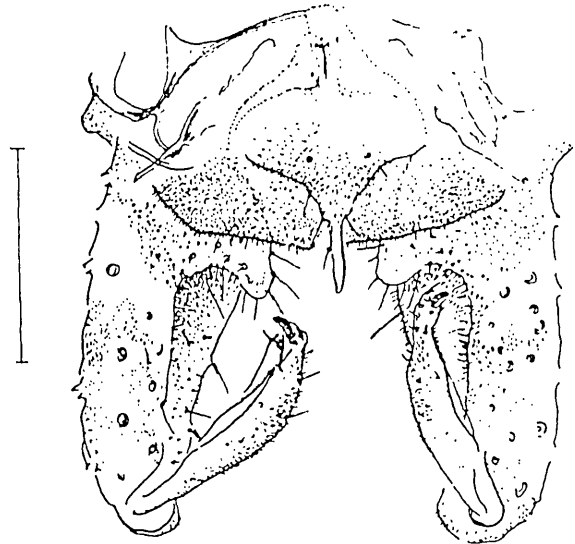


fig 27a: *O. saxicola*

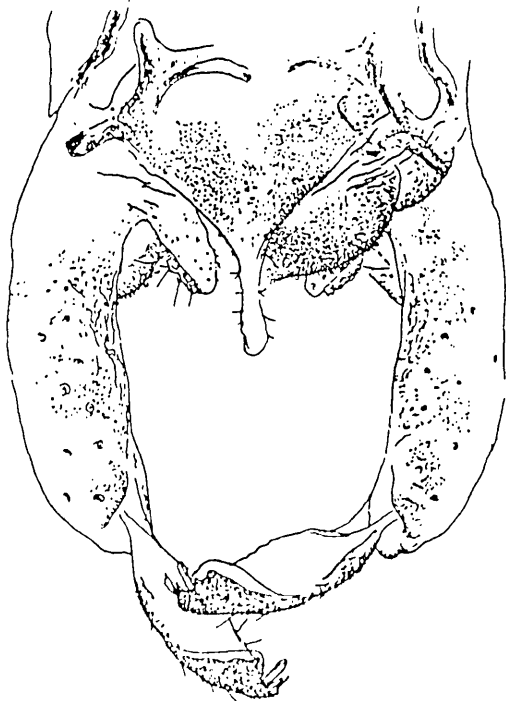


fig 28a: (Eu) *Orthocladius frigidus*

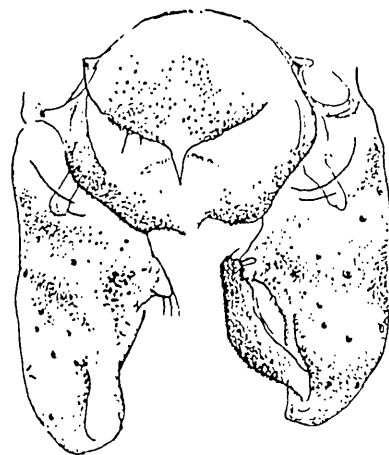


fig:29a: *Synorthoclad.*

* paintings from PINDER (1978)
** painting from BRUNDIN (1956)
all others made by P.E. SCHMID (1983)

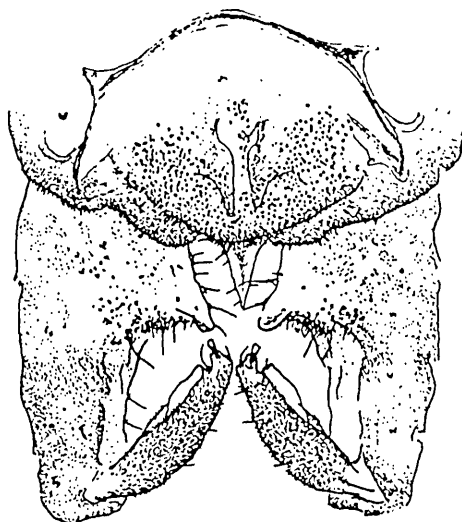


fig 30a: Rheocric. effusus

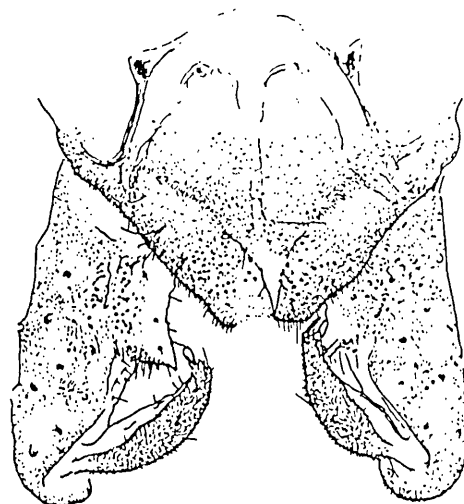


fig 31a: R. fuscus

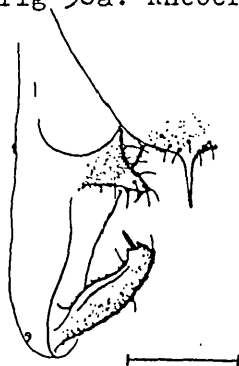


fig 32a: Nanoclad.

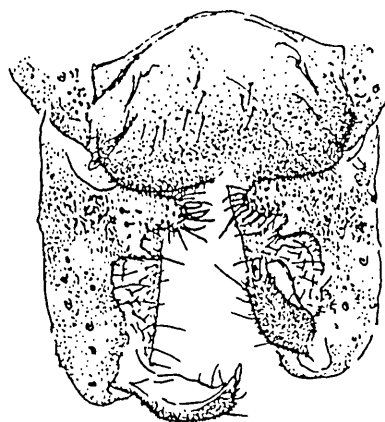


fig 34a: Cricot.
curv.

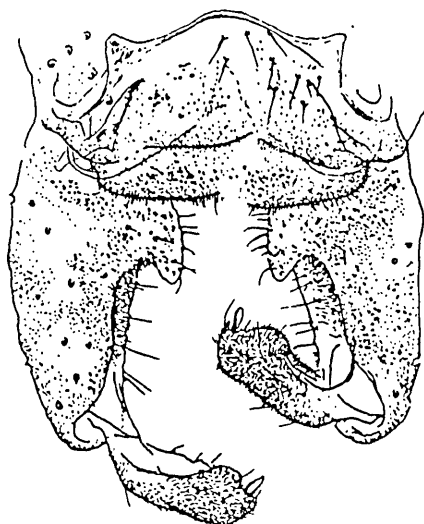


fig 32a1: Paratrichoel. skir.

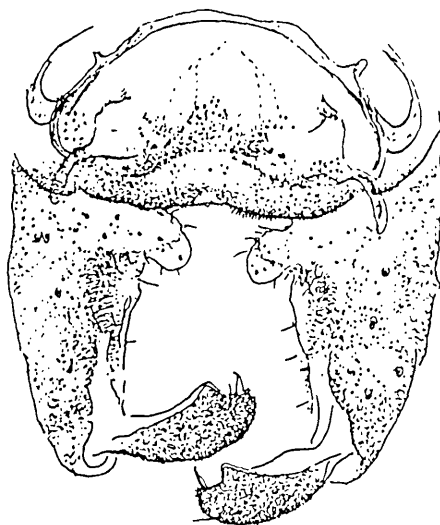
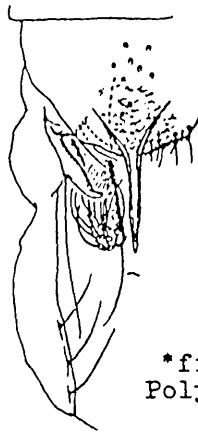


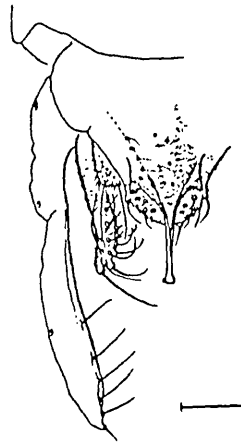
fig 33a: P. rufiventris



*fig 35a: Phaeno.



*fig. 37 a:
Polyp. alb.



*fig 38a:P. apfelb.

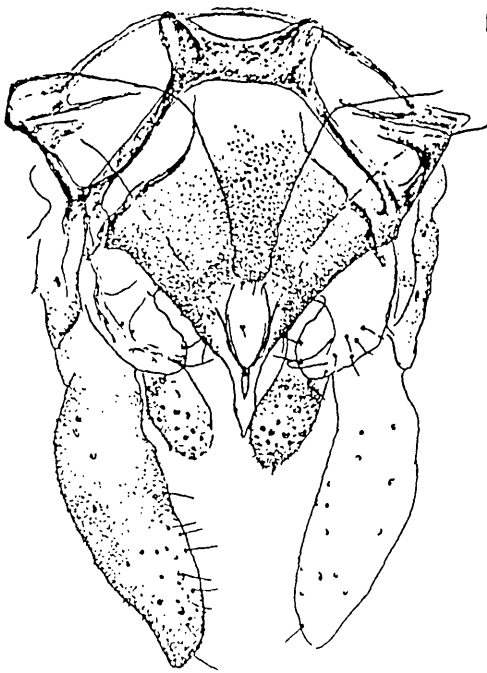


fig 39a: M. notescens



fig 40a: M. atrofasc.

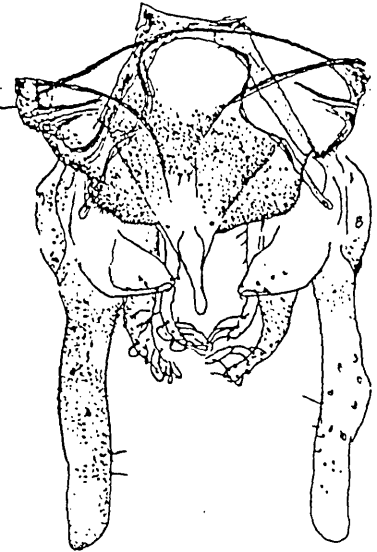


fig 41a: M. atten.

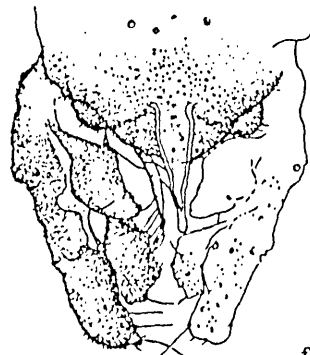


fig 42a Stempel.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Jahresbericht der Biologischen Station Lunz](#)

Jahr/Year: 1984

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Artikel/Article: [A key to .the characteristic adult males of Seebach \(Lunz\) Chironomidae. 141-155](#)