

# Faunal List of Oribatid Mites (Acari : Oribatida) in Mt. Namsan, Korea

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## 남산 지역의 날개응애(Acari : Oribatida) 목록

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### ABSTRACT

A total of 74 species belonging to 56 genera under 33 families of oribatid mites was reported from the coniferous forest in Mt. Namsan. A total of 85 species belong to 58 genera under 33 families was reported from the deciduous forest in Mt. Namsan.

**Key words** : Oribatida, coniferous forest, deciduous forest, Mt. Namsan, Korea

### INTRODUCTION

The oribatid mite is one of the richest soil arthropod groups as to the diversity and abundance. Most of them inhabit the litter layer and topsoil where decaying vegetation and the microflora are abundant. Since they are detritus feeders in soils they are considered to influence soil structure by the transmutation of organic matter, a very important component in forest

ecosystems (Wallwork, 1976). Taxonomic and faunal studies on oribatid mites in forests have been conducted by few researchers in Korea (Choi, 1984, 1985, 1986a, 1986b, 1986c, 1986d, 1988, 1989, 1994, 1996; Kwon & Choi, 1992). These studies were mainly from natural or environmentally less disturbed forests. However, no investigation was made in the environmentally stressed forests such as Mt. Namsan. Mt. Namsan is located in the center of Seoul and is heavily stressed by environmental pollution. Here we

This paper is a part of the study conducted under the financial support by the Ministry of Environment (1993-1995).

introduce the oribatid mites fauna investigated from 1993 to 1994 in the coniferous and deciduous forests in Mt. Namsan for the first time.

## SYSTEMATICS

### SUBCLASS ACARI SUPERORDER ACTINOTRICHIDA ORDER ORIBATIDA

#### I. Oribatid mites in Mt. Namsan coniferous forest

- Family Mesoplophoridae Ewing, 1917  
어리조개응애과  
*Archoplophora* sp.
- Family Hypochthoniidae Berlese, 1910 띠응애과  
*Eohypochthonius crassisetiger* Aoki, 1959  
*Hypochthonius rufulus* Koch, 1836
- Family Lomanniidae Berlese, 1916 팽이응애과  
*Lohmannia coreana* Choi, 1985  
*Mixacarus exilis* Aoki, 1970  
*Vepracarus hirsutus* Aoki, 1961
- Family Epilohmanniidae Oudemans, 1916  
배흙응애과  
*Epilohmannia ovata* Aoki, 1961  
*E. pallida pacifica* Aoki, 1970
- Family Steganacaridae Niedbala, 1986  
가시조개응애과  
*Atropacarus (Atropacarus) striculus* (Koch, 1836)  
*Atropacarus (Hoplophorella) cucullata* (Ewing, 1909)  
*Hoplophthiracarus* sp.
- Family Euphthiracaridae Jacot, 1930  
배꼽조개응애과  
*Microtritia minima* (Berlese, 1904[1905])  
*Rhysotritia ardua* (Koch, 1841)
- Family Camisiidae Oudemans, 1900 왕응애과  
*Camisia* sp.
- Family Malaconothridae Berlese, 1916

- 장님응애과  
*Malaconothrus pygmaeus* Aoki, 1969  
*Trimalaconothrus* sp.
- Family Nothridae Berlese, 1896 그물왕응애과  
*Nothrus biciliatus* Koch, 1841
- Family Trhypochthoniidae Willmann, 1931  
쌍무늬응애과  
*Trhypochthonius tectorum* (Berlese, 1896)
- Family Nanhermanniidae Sellnick, 1928  
해면응애과  
*Nippohermannia parallela* (Aoki, 1961)
- Family Damaeidae Berlese, 1896 빨염주응애과  
*Epidamaeus* sp.  
*E.* sp.1  
*Tectodamaeus armatus* Aoki, 1984  
*T. striatus* Enami et Aoki, 1988
- Family Eremobelbidae Balogh, 1961 귀응애과  
*Eremobelba japonica* Aoki, 1959
- Family Eremulidae Grandjean, 1965  
동아줄응애과  
*Eremulus avenifer* Berlese, 1913
- Family Zetorchesteridae Michael, 1898  
*Microzetorchestes emeryi* (Coggi, 1898)
- Family Astegistidae Balogh, 1961 달마응애과  
*Cultroribula lata* Aoki, 1961  
*C. tridentata* Aoki, 1965
- Family Liacaridae Sellnick, 1928 달갈응애과  
*Liacarus* sp.
- Family Carabodidae Koch, 1842 검둥이응애과  
*Carabodes peniculatus* Aoki, 1970  
*C. rimosus* Aoki, 1959  
*C.* sp.
- Family Otocephidae Balogh, 1961 오징어응애과  
*Dolicheremaeus elongatus* Aoki, 1967
- Family Tectocephidae Grandjean, 1953(1954)

사각머리응애과  
*Tectocepheus velatus* (Michael, 1880)  
*T. cuspidentatus* Knülle, 1954

Family Oppiidae Grandjean, 1951 좁쌀응애과  
*Arcoppia viperea* (Aoki, 1959)  
*Brachioppiella ctenifera barbata* Choi, 1986  
*Lauropia neerlandica* (Oudemans, 1900)  
*Machuella ventrisetosa* Hammer, 1961  
*Oppia* sp.  
*O.* sp.1  
*O.* sp.2  
*O.* sp.3  
*O.* sp.4  
*Oppiella nova* (Oudemans, 1902)  
*Ramusella (Ramusella) sengbuschi* Hammer, 1968  
*Quadroppia quadricarinata* (Michael, 1885)

Family Suctobelbidae Jacot, 1938 유리창응애과  
*Flagrosuctobelba naginata* (Aoki, 1961)  
*Suctobelbella yezoensis* Fujita et Fujikawa, 1987  
*Suctobelbila tuberculata* Aoki, 11970

Family Banksinomidae Kunst, 1971  
*Oribella* sp.

Family Haplozetidae Grandjean, 1936  
 소매응애과  
*Incabates* sp.  
*Peloribates longisetosus* (Willmann, 1930)  
*Rostrozetes ovulum* (Berlese, 1908)

Family Protoribatidae Balogh et Balogh, 1984  
 긴소매응애과  
*Protoribates crassisetiger* Choi, 1986

Family Hemileidae Balogh et Balogh, 1984  
*Tuberemaus singularis* Sellnick, 1930

Family Oripodidae Jacot, 1925 뚜껑응애과  
*Oripoda pinicola* Aoki et Ohkubo, 1974

Family Scheloribatidae Grandjean, 1933  
 판날개응애과  
*Scheloribates latipes* (Koch, 1841)

*S. rigidisetosus* Willmann, 1951  
*S.* sp.  
*S.* sp. 1  
*S.* sp. 2

Family Xylobatidae Balogh et Balogh, 1984  
 살짝곰보응애과  
*Xylobates* sp.  
*Perxylobates* sp.

Family Ceratozetidae Jacot, 1925 잔날개응애과  
*Ceratozetella imperatoria* (Aoki, 1963)  
*Ceratozetes* sp.  
*Boreozetes* sp.

Family Mycobatidae Grandjean, 1953  
 사다리응애과  
*Punctoribates punctum* (Koch, 1839)

Family Phenopelopidae Petrunkevitch, 1955  
 염마응애과  
*Eupelops* sp.

Family Galumnidae Jacot, 1925 나비응애과  
*Galumna chujoi* Aoki, 1966  
*Pergalumna altera* (Oudemans, 1915)  
*P. magnipora capillaris* Aoki, 1961  
*P. intermedia* Aoki, 1963  
*Trichogalumna lineata* Okubo, 1984

## II. Oribatid mites in Mt. Namsan deciduous forest

Family Mesoplophoridae Ewing, 1917  
 어리조개응애과  
*Archoplophora* sp.

Family Phthiracaridae Perty, 1841 조개응애과  
*Phthiracarus clemens* Aoki, 1963  
*P.* sp.

Family Steganacaridae Niedbala, 1986  
 가시조개응애과  
*Atropacarus (Atropacarus) striculus* (Koch, 1836)  
*Hoplophorella* sp.

Family Euphthiracaridae Jacot, 1930

## 배꼽조개응애과

*Euphthiracarus foveolatus* Aoki, 1980*Microtritria minima* (Berlese, 1904[1905])*Rhysotritria ardua* (Koch, 1841)

Family Hypochthoniidae Berlese, 1910 띠응애과

*Eohypochthonius crassisetiger* Aoki, 1959*Hypochthonius rufulus* Koch, 1836

Family Lomanniidae Berlese, 1916 팽이응애과

*Lohmannia coreana* Choi, 1985*Mixacarus exilis* Aoki, 1970*Vepracarus hirsutus* Aoki, 1961

Family Perlohmanniidae Grandjean, 1958

장수응애과

*Apolohmannia gigantea* Aoki, 1960

Family Epilohmanniidae Oudemans, 1916

배흙응애과

*Epilohmania pallida pacifica* Aoki, 1970*E.* sp.

Family Malaconothridae Berlese, 1916

장님응애과

*Malaconothrus japonicus* Aoki, 1966*M.* *pygmaeus* Aoki, 1969*Trimalaconothrus joonsooi* Choi, 1986

Family Nothridae Berlese, 1896 그물응애과

*Nothrus biciliatus* Koch, 1844

Family Nanhermanniidae Sellnick, 1928

해면응애과

*Nippohermania parallela* (Aoki, 1961)

Family Licnodamaeidae Grandjean, 1954

이끼응애과

*Licnodamaeus* sp.

Family Gymnodamaeidae Grandjean, 1954

아교응애과

*Allodamaeus decemsetiger* Choi et Aoki, 1985*A.* *transitus* Aoki, 1984

Family Eremobelbidae Balogh, 1961 귀응애과

*Eremobelba japonica* Aoki, 1959

Family Eremaeidae Sellnick, 1928

다리차양응애과

*Eremaeus orientalis* Golosova, 1970

Family Damaeidae Berlese, 1896 뿔엃주응애과

*Damaeus* sp.2*D.* sp.3*D.* sp.4*D.* sp.5*D.* sp.6

Family Astegistidae Balogh, 1961 달마응애과

*Cultroribula breviclavata* Aoki, 1984*C.* *lata* Aoki, 1961*C.* *tridentata* Aoki, 1965

Family Liacaridae Sellnick, 1928 달갈응애과

*Liacarus contiguus* Aoki, 1969*L.* *orthogonios* Aoki, 1959*L.* sp.

Family Carabodidae Koch, 1842 검둥이응애과

*Carabodes peniculatus* Aoki, 1970*C.* *transversarius* Choi et Aoki, 1986*C.* sp.

Family Tectocepheidae Grandjean, 1953

사각머리응애과

*Tectocepheus cuspidentatus* Knülle, 1954*T.* *velatus* (Michael, 1880)*T.* *titanus* Okubo, 1982

Family Otocepheidae Balogh, 1961

오징어응애과

*Fissicepheus clavatus* (Aoki, 1959)*F.* *coronarius* Aoki, 1967*F.* *haradai* Choi, 1986*F.* *mitis* Aoki, 1970*Megalotocepheus japonicus* Aoki, 1965

Family Oppiidae Grandjean, 1951 좁쌀응애과

*Brachioppiella ctenifera barbata* Choi, 1986*Lasiobelba remota* Aoki, 1959

*Machuella ventrisetosa* Hammer, 1961  
*Multioppia gapsaensis* Choi, 1986  
*Oppia neerlandica* (Oudemans, 1900)  
*O.* sp.  
*O.* sp.1  
*O.* sp.3  
*O.* sp.6  
*Oppiella nova* (Oudemans, 1902)  
*Ramusella (Ramusella) sengbuschi* (Hammer, 1968)

Family Suctobelbidae Grandjean, 1954

유리창응애과

*Flagrosuctobelba naginata* Aoki, 1961  
*Suctobelbella frondosa* Aoki et Hukuyama, 1976  
*S.* *ongisensillus* Fujita et Fujikawa, 1987  
*S.* *yezoensis* Fujikawa et Fujita, 1987  
*S.* sp.1  
*Suctobelbilla tuberculata* Aoki, 1970

Family Haplozetidae Grandjean, 1936

소매응애과

*Peloribates longisetosus* (Willmann, 1930)  
*Rostrozetes pulcherrimus* Berlese, 1960

Family Protoribatidae Balogh et Balogh, 1984

긴소매응애과

*Protoribates* sp.

Family Parakalummidae Grandjean, 1936

주머니나비응애과

*Neoribates* sp.

*Protokalumna parvisetigerum* Aoki, 1965

Family Scheloribatidae Grandjean, 1933

판날개응애과

*Scheloribates latipes* (Koch, 1841)  
*S.* *rigidisetosus* Willmann, 1951

Family Xylobatidae Balogh et Balogh, 1964

도포소매응애과

*Xylobates* sp.

*Perxylobates* sp.

Family Ceratozetidae Jacot, 1925 잔날개응애과

*Ceratozetes* spp.

*Cyrtozetes* sp.

*Boreozetes donghaksensis* Choi, 1986

*Diapterobates* sp.

Family Mycobatidae Grandjean, 1953

사다리응애과

*Punctoribates punctum* (Koch, 1839)

Family Phenopelopidae Petrunkevitch, 1955

염마응애과

*Euphelops acromios* Hermann, 1804

Family Oribatellidae Jacot, 1923 판지개응애과

*Ophidiotrichus usuricus* Krivolutkij, 1971

*Oribatella meridionalis* Berlese, 1908

*O.* *undulata* Choi, 1986

Family Galumnidae Jacot, 1925 나비응애과

*Galumna chujoi* Aoki, 1966

*Pergalumna intermedia* Aoki, 1963

*Trichogalumna lineata* Okubo, 1964

## 초 록

남산 지역에서 수행된 토양서식성 날개응애류 생물상 조사 결과, 침엽수림지역에서 33과 56속 74종이 조사되었으며, 활엽수림지역에서는 33과 59속 85종이 조사되었다.

검색어 : 날개응애, 침엽수림지역, 활엽수림지역, 남산

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(1996년 10월 28일 접수)