

The Spider Fauna of Kogum-do, Korea

Joo-Pil Kim

(Department of Applied Biology, College of Life resource Science, Dongguk University,
The Arachnological Institute of Korea)

ABSTRACT

The spider fauna of Kogum-do located in the south sea of Korea was investigated. As a result, the author presents a list of 82 species of 44 genera in 17 families and redescribes 2 species, *Achaearanea oculipromiensis* and *Sittius avocator*, newly known to Korea.

Key words: Spider fauna, unrecorded species, Kogum-do.

INTRODUCTION

After DOI reporting Wando's spider (1935), many spider fauna of the islands Geoje-do (Paik, 1970), Ullung-do (Paik and Kang, 1988; Paik, 1995), Cheju-do, Jin-do and Baekryong-do (Kim, 1985, 1987, 1995, 1996) were reported. The present study was carried out to clarify the spider fauna of Kogum-do, Wando-gun, Chollanamdo, Korea.

MATERIALS AND METHODS

The spiders collected by hand sorting, sweeping, beating, and pitfall-trapping in Kogum-do, Wando-gun, Chollanamdo, from Aug. 9 to Aug. 12, 1997 were preserved in 80% ethylalcohol and observed under stereoscopic microscope (SZH10, 100X) in steeping condition. Left male palp is illustrated in ventral and retrolateral views. Female genital region is separated from abdomen and cleared in 10% KOH solution. The half-dissolved muscular part is carefully removed by fine needle under microscope. Then, the remaining sclerotic organ is preserved in distilled water and dehydrated

through a series of 40-100% ethylalcohol and internal genital organ is illustrated. Ocular micrometer accurated to 0.01mm is used for measurement. All the segments of legs excluding coxa and trochanter are measured. According to the geograpical distribution and climate, the spider funa of Kogum-do rere compared with several provinces (Cheju-do, Geojae-do, Ulleung-do, Baekryong - do, Jin-do, Dokjok Archipelago, Daedu-do, and Yongjong-do, Tsushima Island in Japan). All specimens rere deposited in the Arachnological Institute of Korea.

SYSTEMATIC ACCOUNTS

- Family Segestriidae Simon, 1893
 Genus *Ariadna* Savigny et Audouin, 1825
Ariadna lateralis Karsch, 1881 K. J. Ts. T. C.
 Family Pholcidae C. L. Koch, 1850
 Genus *Pholcus* Walckenaer, 1805
Pholcus crypticolens Boes et Strand, 1906 K. J. Ts. T. C.
 Family Theridiidae (Sundevall, 1833)
 Genus *Achaearanea* Strand, 1929
Achaearanea angulithorax (Boes et Strand, 1906) K. J. Ts. T. C.
A. japonicum Boes et Strand, 1906 K. J. Ts. T. C.
A. kompirense Boes et Strand, 1906 K. J. Ts. T. C. (Cos).
A. oculipromientis (Saito, 1939) K. J.
A. tabulata Levi, 1980 K. J. C. (Hol.)
A. tepidariorum (C. Koch, 1841) K. J. Ts. T. C. (Cos.)
A. ungilensis Kim et Kim 1996 K.
 Genus *Anelosimus* Simon, 1891
Anelosimus crassipes (Boes et Strand, 1906) K. J. Ts. T. C.
 Genus *Argyrodes* Simon, 1891
Argyrodes bonadea (KARSCH, 1881) K. J. Ts. T. C.
A. miniaceus (Doleschall, 1857) K. J. Ts. T. C.
Argyrodes sp. K.
 Genus *Coleosoma* O. P. -Cambridge, 1882
Coleosoma margarium Yoshida, 1985 K. J.
 Genus *Dipoena* Thorell, 1869
Dipoena mustelina (Simon, 1888) K. J. Ts. T. C.
D. japonica (Yoshida, 1985) K. J.
 Genus *Stemmops* O. P. -Cambridge, 1894
Stemmops nipponicus Yaginuma, 1969 K. J. C.

- Genus *Theridion* Walckenaer, 1894
Theridion sterninotatum Boes et Strand, 1906 K. J. C.
T. subpallens Boes et Strand, 1906 K. J. T. C.
Theridion sp. K.
- Family Linyphiidae Blackwall, 1859
Genus *Neriena* Blackwall, 1833
Neriena albolimbata (Karsch, 1879) K. J. Ts. T. C.
N. clathrata (Sundevall, 1829) K. J. (Hol.)
N. japonica (Oi, 1960) K. J. C.
- Family Mimetidae Simon, 1890
Genus *Mimetus* Hentz, 1832
Mimetus testaceus Yaginuma, 1960 K. J. Ts.
- Family Araneidae Dahl, 1912
Genus *Araneus* Clerck, 1758
Araneus cornutus (Clerck, 1758) K. J. C. (Hol.)
A. ventricosus (L. Koch, 1878) K. J. Ts. T. C.
- Genus *Argiope* Audouin, 1827
Argiope amoena L. Koch, 1878 K. J. Ts. T. C. (Or.)
A. brunichii (Scopoli, 1772) K. J. Ts. C. (Pal.)
A. minuta Karsch, 1879 K. J. Ts. T. C.
- Genus *Cyclosa* Menge, 1866
Cyclosa atrata Boes et Strand, 1906 K. J. C.
C. confusa (Costa, 1834) K. J.
C. japonica Boes et Strand, 1906 K. J. T. C.
C. laticauda Boes et Strand, 1906 K. J. T. C.
C. mulmeinensis (Thorell, 1887) K. J.
C. octotuberculata Karsch, 1879 K. J. Ts. T. C.
C. vallata Keyserling, 1886 K. J. Ts. T. C. (Ori.)
- Genus *Cyrtarachne* Thorell, 1868
Cyrtarachne inaequalis Thorell, 1895 K. J. T. C. (Ori.)
- Genus *Neoscona* Simon, 1864
Neoscona adiantum (Walckenaer, 1802) K. J. C. (Pal.)
N. mellottei (Simon, 1895) K. J. Ts. T. C.
N. nautica (L. Koch, 1875) K. J. Ts. T. C. (Cos.)
N. scylla (Karsch, 1879) K. J. Ts. T. C.
N. subpullata Boes et Strand, 1906 K. J. Ts. T. C.
- Genus *Yaginuma* Archer, 1960
Yaginuma sia (Strand, 1960) K. J. C. (Pal.)
- Family Tetragnathidae Menge, 1866
Genus *Leucauge* White, 1841
Leucauge blanda (L. Koch, 1878) K. J. Ts. T. C.

- L. magnifica* Yaginuma, 1954 K. J. Ts. T. C.
L. subblanda Boes et Strand, 1906 K. J. Ts. C.
 Genus *Tetragnatha* Latreille, 1804
Tetragnatha maxillosa Thorell, 1895 K. J. Ts. T. C.
T. praedonia L. Koch, 1878 K. J. Ts. T. C.
T. squamata Karsch, 1879 K. J. Ts. T. C.
 Family Urocteidae Thorell, 1869
 Genus *Uroctea* Dufour, 1820
Uroctea compactilis L. Koch, 1878 K. J. Ts. C.
 Family Agelenida C. L. Koch, 1837
 Genus *Agelena* Walckenaer, 1805
Agelena labyrinthica (Clerck, 1758) K. J. C. (Pal.)
A. limbata Thorell, 1897 K. J. Ts. T. C.
 Family Pisauridae Simon, 1890
 Genus *Dolomedes* Latreille, 1890
Dolomedes sulfureus L. Koch, 1978 K. J. Ts. C.
 Genus *Perenethis* Simon, 1885
Perenethis fascigera (Boes et Strand, 1906) K. J. T. C.
 Family Lycosidae Sundevall, 1833
 Genus *Padosa* C. L. Koch, 1848
Padosa astrigera L. Koch, 1878 K. J. Ts. T. C.
P. lugubris (Walckenaer, 1802) K. J. (Pal.)
 Genus *Pirata* Sundevall, 1833
Pirata piratoides Boes et Strand, 1906 K. J. C.
P. subpiraticus Boes et Strand, 1906 K. J. T. C.
 Family Oxypidae Thorell, 1869
 Genus *Oxyopes* Latreille, 1804
Oxyopes sertatus L. Koch, 1878 K. J. Ts. T. C.
 Family Clubioidae Wanger, 1887
 Genus *Clubiona* Latreille, 1804
Clubiona coreana PAIK, 1990 K. C.
 Family Gnaphosidae Pocock, 1898
 Genus *Herpyllus* Hentz, 1832
Herpyllus anatolicus Kamura, 1989 K. J.
 Family Thomisidae Sundevall, 1833
 Genus *Heriaeus* Simon, 1875
Heriaeus melloteei Simon, 1886 K. J. C. (Pal.)
 Genus *Misumenops* F. O. P.-Cambridge, 1990
Misumenops tricuspoidatus (Fabricius, 1775) K. J. Ts. T. C. (Hol.)
M. kumadai Ono, 1985 K. J.
 Genus *Runcinia* Simon, 1879

<i>Runcinia albostrata</i> Boes et Strand, 1906	K. J. T. C.
Genus <i>Xysticus</i> C. L. Koch, 1835	
<i>Xysticus ephippiatus</i> Simon, 1880	K. J. T. C.
Family Philodromidae O. P.-Cambridge, 1871	
Genus <i>Philodromus</i> Walckenaer, 1826	
<i>Philodromus spinitarsus</i> Simon, 1895	K. J.
<i>P. subaureolus</i> Boes et Strand, 1906	K. J. Ts. C.
<i>Philodromus</i> sp.	K.
Family Salticidae Blackwall, 1841	
Genus <i>Evarcha</i> Simon, 1902	
<i>Evarcha albaria</i> (L. Koch, 1878)	K. J. Ts. C.
<i>Evarcha</i> sp.	K
Genus <i>Harmochilus</i> Simon, 1885	
<i>Harmochilus brachiatus</i> (Thorell, 1877)	K. J. Ts. C.
Genus <i>Marpissa</i> C. L. Koch, 1846	
<i>Marpissa elongata</i> (Karsch, 1879)	K. J. Ts. T. C.
Genus <i>Menemerus</i> Simon, 1968	
<i>Menemerus fulvus</i> (L. Koch, 1877)	K. J. Ts. T. C.
Genus <i>Myrmarachne</i> Macleay, 1839	
<i>Myrmarachne japonica</i> (Karsch, 1879)	K. J. Ts. T. C.
Genus <i>Plegra</i> Simon, 1876	
<i>Plegra festiva</i> (C. L. Koch, 1834)	K. J. C. (Pal.)
Genus <i>Phintella</i> Strand, 1906	
<i>Phintella bifurcilinea</i> (Boes et Strand, 1906)	K. J. Ts. C.
Genus <i>Plexippus</i> Proszynskil, 1984	
<i>Plexippus paykulli</i> (Savigny et Audouin, 1828)	K. J. Ts. T. C.
<i>P. setipus</i> Karsch, 1879	K. J. Ts. C.
Genus <i>Pseudicius</i> Simon, 1885	
<i>Pseudicius himeshimensis</i> (Boes et Strand, 1906)	K. J. Ts. C.
Genus <i>Siler</i> Simon, 1888	
<i>Siler cupreus</i> Simon, 1888	K. J. Ts. C.
Genus <i>Sitticus</i> Simon, 1901	
<i>Sitticus avocator</i> (O. P. -Cambridge, 1885)	K. J. C

Family Theridiidae (Sundevall, 1833) 꼬마거미과

Genus *Achaearanea* Strand, 1929 말꼬마거미屬

1. *Achaearanea oculipromientis* (Saito, 1939) 얼룩무늬꼬마거미(新稱) (Figs. 1-3)

Nesticus oculiprominentis Saito, 1939, 52, fig.7; 1959, p. 68; Roewer, 1942, p. 510; Yaginuma, 1962, p. 17; 1970, p. 650; 1977, p.404.

Theridion sp. : Yaginuma, 1970, p. 650; 1977, p. 378; Chikuni, 1989, p. 43, fig. 62; Mika and Ikeda, 1989. 1; Yaginuma, 1990, p. 250.

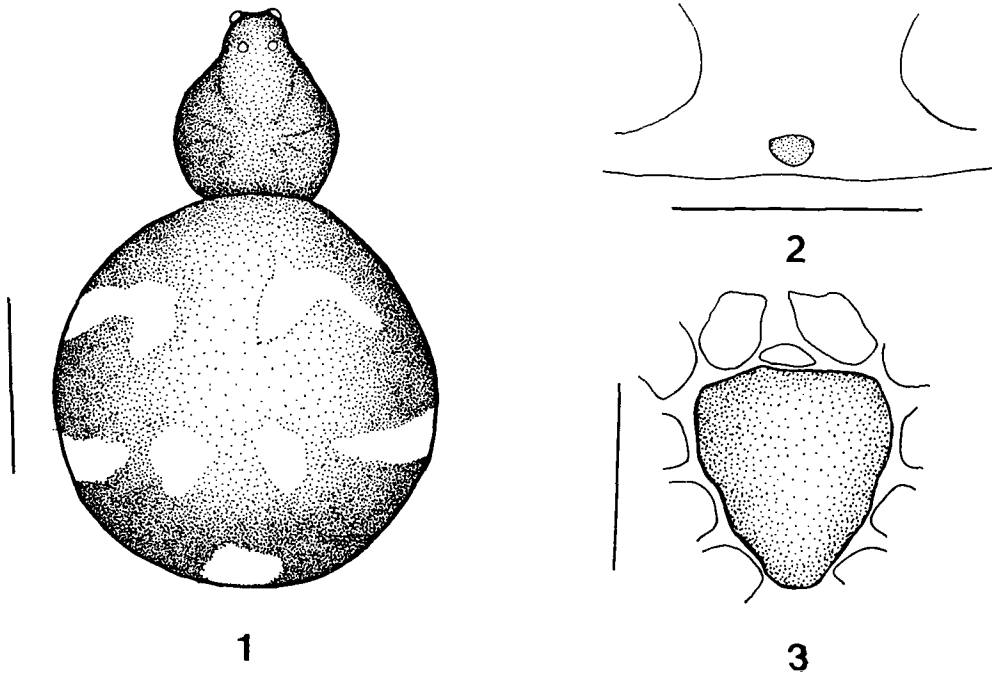
Achaearanea oculipromientis (Saito, 1935): Yoshida, 1991, 4-6; Platrick, 1993. p. 811.

Measurement (mm.)

Female : Body length, 2.96; Carapace length/width, 0.96/0.87; Abdomen length/width/height, 1.96/1.91/2.17; Sternum length/width, 0.65/0.61; Endite length/width, 0.33/0.15; Labium length/width, 0.09/0.18; Chelicera length/width, 0.35/0.13; AME, 0.08; ALE, 0.06; PME, 0.09; PLE, 0.08; AMEs/PMEs distance, 0.09/0.08.

Table 1. Measurement of leg segment of *A. oculipromientis* (S. Saito, 1939)

	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
Leg I	1.32	0.40	0.96	1.20	0.52	4.40
Leg II	0.94	0.33	0.56	0.72	0.44	2.99
Leg III	0.66	0.28	0.31	0.52	0.31	2.08
Leg IV	1.07	0.38	0.66	0.86	0.45	3.42



Figs. 1-3. *Achararanea oculipromientis* (S. Saito, 1939)

1. Total body, dorsal view, scale bar 1mm. 2. Epigynum, ventral view, scale bar 0.5mm. 3. Sternum, ventral view, scale bar 1mm

Description

Female : Carapace brownish yellow, with dark brown margin, longer than wide in CI 91. Eye area black. AER slightly shorter than PER in the ERI 97. AER recurved, PER weakly recurved. Eye ratio, $PME > ALE = PLE > ALE (7 : 6 : 6 : 5)$. AME separated longer than their diameter, PME by their diameter. Lateral eye of both rows contact each other. MOQ make a regular quadrangle. Clypeus brownish dark and chelicera none armed with teeth. CHI 37. Labium and endites brownish pale yellow. Labium wider than long in the LBI 200. EDI 45. Sternum brownish, triangular, slightly longer than wide in the SI 94 and protruded between 4th coxa. Legs Brownish yellow, 4th tibia with black ring patterns. Leg formula I IV II III. Leg index, 100 : 86 : 47 : 78. Leg I/C 4.58. Fem. I/C 1.38. Fem. I 1/d 7.33. Tib. I/C 1.00. Met. I/Tar. I 2.31. Met. IV/Tar. IV 1.91. (Pat. I + Tib. I)/C 1.42. Abdomen oval in the AI 97, higher than length(100 : 90); dorsum and sides with white stripes patterns as fig. 1 and venter brownish dark. Cololus with no seta and epigynum as fig. 2.

Male unknown.

Specimen examined : Kogum-do. Isl., Wando-gun, Chullanamdo, Korea, 9 VIII 1996, Kim, Joo-Pil.

Distribution : Korea, Japan.

Family Salticidae Blackwall, 1841 **깡충거미**科

Genus *Sitticus* Simon, 1901 **마른깡충거미**屬

2. *Sitticus avocator* (O. P. -Cambridge, 1885) 홀아버깡충거미 (Figs. 4- 9)

Attus avocator : O. P. -Cambridge, 1885, p. 106.

A. viduus : Kulczynski, 1895, p. 79, pl. 2, figs. 28, 29.

A. godlewskii : Kulczynski, 1895, p. 74.

Attulus avocator : Reimoger, 1919, p. 193.

Sitticus numeratus : Boesenberg et Strand, 1906, p. 342, figs. 138, 359; p. 672.

S. sibiricus : Roewer, 1951, p. 453.

S. viduus : Reimoger, 1919, p. 195; Proszynski, 1976, p. 43, 49, fig. 304 ; 1979, p. 317; Wesolowska, 1981a, p. 80; 1981b, p. 156.

Sitticus sp. Chikuni, 1989, p. 150,

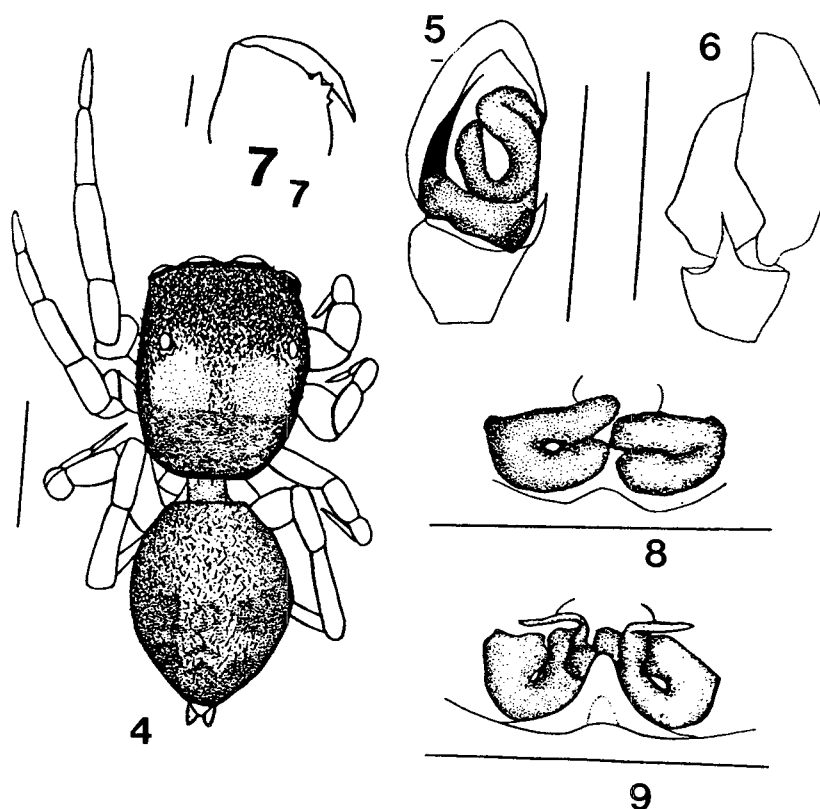
S. avocator : Proszynski, et Zochowska, 1981, p. 26-29, figs. 25-26; Zabka, 1981, p. 410, 411, figs. 7-10; Proszynski, 1982, p. 289-290, figs. 44-45; 1983, p. 7; Nenilin, 1984, p. 141; Proszynski, 1987, pp. 9-92, 97; Bohdanowicz et Proszynski, 1987, p. 127-129, figs. 252-257; Zhou et Song, 1988, p. 9-10, figs. 12a-f; Platrick, 1989, p. 626; 1993, p. 811.

Measurement (mm.)

Male/Female : Total body 2.68/5.72; Body length 2.41/4.95; Carapace length 1.22/2.06, width 0.92/1.64, 0.93/0.93; Abdomen length 1.19/2.89, width 0.89/2.17; Sternum length 0.47/0.80, width 0.51/0.72; Endite lenth 0.37/0.52, width 0.26/0.31; Labium length 0.21/0.31, width 0.23/0.29; Chelicera length 0.47/0.78, width 0.26/0.30; AME, 0.32/0.40; ALE, 0.17/0.22; PME, 0.05/0.06; PLE, 0.16/0.17.

Table 2. Measurement of leg segment of *S. avocator* (O. P. -Cambridge, 1885)

	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
Leg I	0.88/1.00	0.58/0.87	0.73/0.67	0.63/0.51	0.50/0.49	3.32/3.54
Leg II	0.78/0.95	0.49/0.58	0.49/0.38	0.47/0.47	0.42/0.53	2.65/2.91
Leg III	0.76/0.91	0.38/0.47	0.43/0.60	0.48/0.53	0.37/0.42	2.42/2.93
Leg IV	1.27/1.77	0.49/0.74	0.87/1.17	0.62/0.83	0.67/0.60	3.92/5.11
Palpal organ	0.49	0.26	0.18		0.67	1.42

**Figs. 4-9** *Sitticus avocator* (O. P. -Cambridge, 1885)

4. Total body, dorsal view, scale bar 1mm. 5. Palpal organ, ventral view, scale bar 0.5mm. 6. Palpal organ, lateral view, scale bar 0.5 mm. 7. Chelicera, front view, scale bar 0.5mm. 8. Epigynum, ventral view, scale bar 0.5mm. 9. Genitalia, dorsal view, scale bar 0.5mm.

Description

Male : Carapace grayish brown, with dark brown margin, longer than wide in CI 75. Eye area with short grayish hairs. 1st eye row slightly longer than 2nd; 3rd row(100 : 90 : 90). Eye ratio, AME > ALE > PLE > PME (100 : 53 : 16 : 50). Ocular quadrangle broader than long, slightly broader behind than in front. Chelicera yellowish brown, armed with 3 fused promarginal teeth and none on retromarginal region. CHI, 55. Labium reddish brown, broader than long in LBI 110. Endite index, EDI 70. Sternum brownish, triangular, slightly broader than long in the SI 109. Abdomen grayish brown, ABI 75. Leg formula IV I II III. Leg index, 100 : 80 : 73 : 118. Leg I /C 2.72. Fem. I /C 0.72. Fem. I, II, III, IV, 1/d 2.51, 2.52, 2.62, 4.54. Tib. I /C 0.60. Tib. I, II, III, IV, 1/d 4.06, 2.72, 2.53, 4.83. Met. I /Tar. I, II / II, III / III, IV / IV 1.26, 1.12, 1.30, 0.93. (Pat. I + Tib. I) /C 1.07.

Palpal organ, slender embolus, tibia apophysis flake-shaped, shown in fig. 5, 6.

Female : Patterns similar to those of male. But its size longer than male's.

Leg formula IV I III II. Leg index, 100 : 82 : 83 : 144. Leg I /C 1.72. Fem. I /C 0.49. Fem. I, II, III, IV, 1/d 2.27, 2.26, 2.39, 4.12. Tib. I /C 0.33. Tib. I, II, III, IV, 1/d 2.31, 1.40, 2.50, 5.09. Met. I /Tar. I, II / II, III / III, IV / IV 1.04, 0.87, 1.26, 1.38. (Pat. I + Tib. I) /C 2.89.

Epigynum and genitalia shown in figs. 7, 8.

Specimen examined : 2 ♂♂, 2 ♀♀, Kogum-do. Isl., Wando-gun, Chollanamdo, Korea, 9 VIII 1996, Kim, Joo-Pil.

Distribution : Korea, China, Japan.

RESULTS

The results of comparison Kogum-do with several provinces according to the geographical distribution and climate are as follows:

1. 82 species, 44 genera, 17 families are identified.
2. 3 species cosmopolitan (4%), 3 species Holarctic region (4%), 3 species oriental region (4%) and almost Palaearctic region are shown from the view point the climate and geography of Kogum-do.
3. The species number of the comparison the spiders from Kogum-do with those from other islands (Cheju-do, Geojae-do, Ulleung-do, Baekryong-do, Jin-do, Deogjeog Archipelago, Daedu-do and Yeongjeong-do, Tsushima in Japan) and other nations(China, Japan, Taiwan) are as follows: China 66 species (80%), Japan 76 species (93%), Taiwan 41 species (50%), Tsushima 43 species (52%), Cheju-do 41 species (50%), Geojae-do 29 species (35%), Ulleung-do 46 species (56%), Baekryong-do 20 species (24%), Jin-do 28 species (34%), and Deogjeog Archipelago, Daedu-do, and Yeongjeong-do 43 species (48%).

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고금도의 거미상

김 주 필

(동국대학교 생명자원과학대학 응용생물학과, 한국거미연구소)

요 약

1996년 8월 19일부터 24일까지 전남 완도군 고금도에서 채집한 거미류를 분류 동정한 결과, 17과 44속 82종이 채집되었다. 이 중에서 2미기록종; *Achaearanea oculipromientis*와 *Sitticus avocator*을 재기재한다.