Notes on flies collected on Dagelet Island, Korea

By

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During the period 4-14 August 1962, one of the co-authors, S. H. Park, made a collection of medically important flies on Dagelet Island, Korea. In this fly survey, two families, five genera and 24 species, numbering 1,194 were found. In close examination of the collected specimens, one abnormal form of male of *Sarcophaga shiritakaensis* was found. Another specimen of this form was found at Um-moon Temple, Korea. Several specimens of this abnormal form of *S. shiritakaensis* were also found in collection deposited in Tokyo Medical and Dental University. In this paper

the authors report this abnormal form of *S. shiritakaensis* along with the list of the other fly species collected on the island (Table 1).

An abnormal form of *Sarcophaga shiritakaensis* Hori, 1954

This abnormal form is closely related to the normal form, but it differs by having a short spine on the ventral surface of the processes of the juxta of the phallosome as shown in Fig. 1 and 2. This abnormal form was reported as a new species by S. H. Park at the 15th Annual Meeting of the Japan Society of

Fig. 1. Abnormal form of *Sarcophaga shiritakaensis*

A: Hind view of forceps, B: Lateral view of forceps, C: Fifth sternite of male, D: Parameres, E: Ejaculatory apodeme, F: Phallosome. (Leg. S. H. Park)

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Table 1 Sarcophagid and calliphorid flies collected on Dagelet Island, Korea in August 1962.

Species	Na-li		Tongumi		Taehwa		Ar-bong		Do-Dong				Total
	M	F	M	F	M	F	M	F	M	F	M	F	
<i>Sarcophaga albiceps</i>	82	31	32	36	9	20	36	16	20	14	179	117	296
<i>S. basalis</i>	2					1			1		3		3
<i>S. brevicornis</i>			11				5				16		16
<i>S. crassipalpis</i>							11	3			11	3	14
<i>S. harpax</i>	3						1	1			4	1	5
<i>S. josephi</i>					3				1		4		4
<i>S. kanoi</i>	1				2						3		3
<i>S. kinoshitai</i>	1										1		1
<i>S. macroauriculata</i>	36	29	9	7	14	3	5	1	9	16	73	56	129
<i>S. melanura</i>	24	17	16	9	20	8	28	19	8	9	96	62	158
<i>S. misera</i>	6		1				6	2	1		14	2	16
<i>S. peregrina</i>	28	54	44	16	3	5	81	26	7	13	163	114	277
<i>S. shutzei</i>									3		3		3
<i>S. shiritakaensis</i>					1				2		3		3
<i>S. similis</i>	12	8	5	8	5	1	4	8	1		27	25	52
<i>S. striata</i>			5	2			1	2			6	4	10
<i>S. tuberosa</i>	2		1		1						4		4
<i>Chrysomya pignuis</i>	3	1									3	1	4
<i>Aldrichina grahami</i>									6	19	6	19	25
<i>Lucilia porphyrina</i>	3	8			8	7			49	42	60	57	117
<i>L. sericata</i>							19	12	2	3	21	15	36
<i>L. illustris</i>						4	11				11	4	15
<i>Hemipyrellia ligurriens</i>	1	1				1					1	2	3
Total	204	149	124	78	66	50	208	90	110	116	712	482	1194

Fig. 2. *Sarcophaga shiritakaensis* Hori, 1954

A: Phallosome, B: Fifth sternite of male, C: Ejaculatory apodeme,
D: Parameres, E: Hind view of forceps. (Leg. S. H. Park)

Sanitary Zoology held in Osaka, Japan, 4 April 1963; however, in later detailed examination it was made clear that these specimens were not a new species but an abnormal form of *Sarcophaga shiritakaensis*. Out of 101 male specimens of *S. shiritakaensis* collected in Japan (76 in Hokkaido; 16 in Tokyo; 5 in Miyagi Pref.; 3 in Ehime Pref., Shikoku; 1 in Oita Pref., Kyushu), 13 specimens of abnormal forms were found. Of these abnormal speci-

mens, five specimens have a short spine only on one process of juxta and no spine on another process. This proves that these specimens are not a new species but an abnormal form.

Data on abnormal male sperimens of *S. shiritakaensis*

I. Specimens having a short spine on each process of juxta

Number of specimens	Locality	Date of collection	Collector
1	Dagelet Island, Korea (Kyung-pook)	8 August 1962	S. H. Park
1	Um-moon Temple, Korea	7 August 1962	S. H. Park
4	Sapporo, Hokkaido, Japan	5 September 1963	R. Kano
1	Nukabira, Hokkaido, Japan	1 July 1961	R. Kano
1	Tokyo, Japan	26 August 1962	R. Kano
1	Tokyo, Japan	15 July 1958	Tsunetaro Okazaki
1	Ehime, Shikoku, Japan	13 August 1963	Satoshi Shinonaga

II. Specimens having a short spine only on one process of juxta

Number of specimens	Locality	Date of collection	Collector
1	Sapporo, Hokkaido, Japan	31 August 1961	R. Kano
1	Sapporo, Hokkaido, Japan	5 Septepmer 1963	R. Kano
1	Tokyo, Japan	3 June 1958	T. Okazaki
1	Tokyo, Japan	17 October 1953	R. Kano
1	Tokyo, Japan	26 August 1962	R. Kano

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