第４表-Ａ　杵島層の動物化石産出表（東部地域）

Table 4-A Occurrences of fossils of Kishima formation, in eastern part

| PROVINCES | Taku·Kogayama | | | | | | Kishima | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEMBERS OF STRATA | B | D | | | | | B | | | | | | | | | |
| LOCALITIES | 2 | 1 | 3 | 4 | 5 | 6 | 12 | 13 | 14 | 16 a | 16 b | 22 | 23 | 26 | 29 | 30 |
| **GASTROPODA** | | | | | | | | | | | | | | | | |
| Orectospira wadana (YOKOYAMA) | | | | | | | | | | | | | | | | |
| Turritella karatsuensis NAGAO | | 1 | | 5 | | | 57 | | 1 | 6 | 1 | | | 3 | 1 | |
| T. sakitoensis NAGAO | | | | | | | | | | | | 95 | a | | | |
| Cerithium sp. | | | | | | | | | | | | 1 | | | | |
| Mammilla insignis (NAGAO) | | 1 | 1 | 1 | | | | | | 1 | | | | | | |
| Calyptraea cf. imadomariensis H&N. | | | | | | | | | | | | | | | | |
| Siphonalia? nipponica O. & M. | | | | 3 | | | 1 | | | | | | | | | |
| Molopophorus ? sp. | | | | | | | | | | | | | | | | |
| Pseudoperissorax ? sp. | | | | | | | | | | | | | | | | |
| Mitra sp. | | | | | | | | | | | | | | | | |
| Volutospina japonica (NAGAO) | | | | | | | 1 | 1 | | | 2 | | | | | 5 |
| Volutilithus ? sp. | | | | | | | | | | | | | | 1 | | |
| Makiyamaia kurodae SH. & UE. | | 1 | | 1 | 1 | 1 | | | | | 1 | | | | | 1 |
| gastropoda gen. & sp. indet. | | 1 | | | | | | | 1 | | | | | | | |
| **SCAPHOPODA** | | | | | | | | | | | | | | | | |
| Dentalium sp. | 2 | 22 | | | 10 | 2 | 2 | 1 | 3 | 1 | 3 | 1 | | 4 | | 7 |
| **PELECYPODA** | | | | | | | | | | | | | | | | |
| Malletia sp. | | | | | | | | | | | | | | | | |
| Saccella sp. | | 39 | 49 | 45 | 18 | 10 | | 6 | 4 | 5 | | | | 4 | 4 | |
| Portlandia sp. | | | | | | | | | | | | | | | | |
| Nucula hizenensis NAGAO | 4 | 6 | 4 | 16 | 14 | 4 | | 10 | 4 | 8 | 6 | | | 2 | 11 | 3 |
| Ennucula sp. | | 1 | | | 1 | 2 | | | 1 | | | | | | | |
| Acila nagaoi OYAMA & MIZ. | | | 2 | 1 | 4 | | | | 2 | 2 | | | | 1 | | |
| Glycymeris sp. | | | | | | | | | | | | | | | | |
| Solamen subfornicatum (N.) | | | | | | | 1 | | | 1 | 1 | | | | | |
| Ostrea sakitoensis NAGAO | | | | | | | 3 | | | | | 2 | | | | |
| Crassatellites matsuraensis (N.) | | 3 | | | 1 | | 1 | 2 | | 1 | 6 | | | 1 | | |
| Venericardia yoshidai NAGAO | | | | 2 | 1 | | | | | | 1 | | | | | |
| V. subnipponica NAGAO | | | | 2 | | | | | | | | | | | | |
| Cardium kishimaense NAGAO | 1 | 2 | 1 | 7 | 20 | | 4 | 2 | 3 | 10 | 19 | 1 | | 8 | 7 | 4 |
| Pitar yokoyamai (NAGAO) | | | | | 1 | | 5 | | | 1 | | | | | | |
| P. matsuraensis (NAGAO) | 1 | 7 | 4 | 7 | 13 | 21 | | 16 | 1 | 9 | 3 | | | 5 | 2 | 2 |
| Cyclina compressa (NAGAO) | 4 | 11 | 7 | 6 | 7 | 2 | | | | | | | | | 3 | |
| Angulus maximus (NAGAO) | 2 | 3 | 1 | 1 | 9 | 6 | | 2 | 8 | | 4 | | | | 1 | |
| Solen sp. | | | | | | | | | | 3 | 4 | | | | | |
| Aloides? sp. | | | | | | | | | | | | | | | 1 | |
| Pholadomya margaritacea (SOW.) | | | | | 1 | | | | 1 | 1 | | | | | | |
| Periploma cf. iesakai O. & M. | | | | | 6 | 1 | | | | | | | | | | |
| pelecypoda gen. & sp. indet. | 3 | | | | | | 3 | | | 1 | 1 | | | | 1 | |
| CRUSTACEA gen. & sp. indet. | 8 | 37 | | 3 | 4 | 1 | | 2 | 9 | 5 | 2 | | | 4 | 4 | |
| fish scales | | | | | | | | | | | | | | | | |
| TOTAL | 25 | 135 | 69 | 100 | 111 | 50 | 78 | 42 | 38 | 55 | 54 | 100 | a | 33 | 35 | 22 |
| NUMBER OF SPECIES | 8 | 14 | 8 | 14 | 16 | 10 | 10 | 9 | 12 | 15 | 14 | 5 | 1 | 10 | 10 | 6 |
| FOSSIL ABUNDANCE | f | a | c | c | c | c | a | f | f | c | c | i | i | a | c | f |
| FOSSIL ASSEMBLAGES | N | S | S | S | M | P | T | P | S-N | C-P | C-P | T | T | C-P | S-N | M |
| LITHOLOGY | sM | vf | sM | T | fS | sM | fS | vf | M | M | M | vf | fS | M | sM | sM |

| PROVINCES | Kishima | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEMBERS OF STRATA | D | | | | | | | | | | | | | | | | | | | | | | | | |
| LOCALITIES | 7 | 8 | 9 | 10 | 10′ | 11 | 15 | 17 a | 17 b | 18 | 19 a | 19 b | 20 | 21 | 24 | 25 | 27 a | 27 b | 28 | 31 a | 31 b | 32 | 33 | 34 a | 34 b |
| **GASTROPODA** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Orectospira wadana (YOKOYAMA) | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Turritella karatsuensis NAGAO | 16 | 5 | 6 | 1 | 14 | | 1 | 25 | | 1 | 3 | 8 | 7 | | 1 | 6 | 2 | | 1 | 8 | 15 | | | | 1 |
| T. sakitoensis NAGAO | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cerithium sp. | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Mammilla insignis (NAGAO) | | | | | | | | 5 | | 1 | 1 | | 1 | | | 1 | | | 1 | | | 1 | 1 | | 1 |
| Calyptraea cf. imadomariensis H&N. | | | 1 | | 1 | | | | | | | | | | | | | | | | | | | | |
| Siphonalia? nipponica O. & M. | 4 | | 2 | | 4 | | | 6 | | | 2 | | 1 | 1 | | | 3 | 2 | 3 | 1 | 4 | 2 | | 3 | 2 |
| Molopophorus ? sp. | | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| Pseudoperissorax ? sp. | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | |
| Mitra sp. | | | | | | | | 4 | | 1 | | | | | | | | | | | | | | | |
| Volutospina japonica (NAGAO) | | | 1 | | 1 | 1 | | 2 | | | 1 | | 1 | | | | | | | | | | | | |
| Volutilithus ? sp. | | | | | | 1 | | | | | | | 1 | | | | | | | | | | | | |
| Makiyamaia kurodae SH. & UE. | | | | 1 | 1 | 2 | 3 | 4 | | | | 1 | | | | | | | | | 1 | | | | |
| gastropoda gen. & sp. indet. | 4 | | | 2 | | | | 1 | | | | 1 | | | | | | 1 | | | 1 | | | | |
| **SCAPHOPODA** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dentalium sp. | 1 | 1 | 3 | | 5 | 2 | 7 | 80 | 1 | 13 | 9 | | 1 | | 13 | 4 | | | 17 | 1 | | 1 | 2 | 5 | 5 |
| **PELECYPODA** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Malletia sp. | 1 | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 |
| Saccella sp. | 25 | 11 | | | 4 | 6 | 4 | 1 | 1 | 2 | | 3 | 1 | 10 | 1 | 4 | 18 | 1 | 6 | 7 | 11 | 10 | 2 | 16 | 19 |
| Portlandia sp. | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| Nucula hizenensis NAGAO | | | 3 | 6 | 6 | 2 | 21 | 2 | 8 | 1 | | 4 | 3 | 4 | 17 | 11 | 12 | 3 | 8 | 1 | 10 | 12 | 7 | 12 | 4 |
| Ennucula sp. | 2 | 3 | | | | | | | | | 4 | | | | | | | | 2 | | | 2 | 1 | 5 | 2 |
| Acila nagaoi OYAMA & MIZ. | 26 | 14 | 5 | 14 | 2 | 2 | | 25 | | 2 | 7 | | | | | | 29 | 6 | | 28 | 43 | | | | |
| Glycymeris sp. | | | | | | | | 1 | | | | | | | | | | | | | 1 | | | | |
| Solamen subfornicatum (N.) | | | | | | | 1 | | | | 2 | | | | | | 1 | | | | | | | | |
| Ostrea sakitoensis NAGAO | | | | | | | 1 | | | | | | | | | | | | | | | | | | |
| Crassatellites matsuraensis (N.) | 4 | 4 | 1 | 1 | 1 | | | 8 | | 1 | 17 | 2 | | | | 1 | 9 | | | | 18 | | 1 | | |
| Venericardia yoshidai NAGAO | | | | | | 1 | | | | | | | | | | | | | | | 2 | | | | |
| V. subnipponica NAGAO | | | 1 | | | | | | | | | | | | | | | | | 1 | 3 | | | | |
| Cardium kishimaense NAGAO | 21 | 13 | 3 | 2 | 18 | 45 | 12 | 17 | 3 | 1 | 15 | 7 | 19 | | 3 | 21 | 6 | | 4 | 6 | 20 | 8 | 7 | | 2 |
| Pitar yokoyamai (NAGAO) | | | | | | | | | 2 | | | | 1 | | | | | | 2 | | | 1 | 3 | 1 | |
| P. matsuraensis (NAGAO) | 27 | 15 | 25 | 47 | 21 | 54 | 35 | 5 | 10 | 3 | 5 | 1 | 7 | 3 | 27 | 27 | 13 | | 57 | 20 | 79 | 12 | 9 | 16 | 10 |
| Cyclina compressa (NAGAO) | 15 | 7 | 3 | 13 | | 4 | | | | 4 | 3 | 13 | 15 | | | 1 | 4 | 1 | 1 | 1 | | 5 | 7 | 2 | 1 |
| Angulus maximus (NAGAO) | 9 | 2 | 1 | 8 | 3 | | 5 | | 1 | 1 | 3 | 5 | 5 | 1 | 7 | 9 | 8 | 13 | 23 | 4 | 1 | 31 | 35 | 8 | 11 |
| Solen sp. | 2 | 1 | | 1 | | | | | | | 2 | 1 | | | | 1 | 2 | | | | | | | | |
| Aloides? sp. | | | | | | | | | | | 1 | | | | | | | | | | | 1 | | | |
| Pholadomya margaritacea (SOW.) | | | | | | 6 | | | | | | | | | 2 | 5 | | | | | | | | | |
| Periploma cf. iesakai O. & M. | | | | 3 | | | | | | | | | 1 | | 1 | | 1 | 1 | 5 | | | | | | 3 |
| pelecypoda gen. & sp. indet. | 1 | 2 | | 2 | | | | | | | | | | | | | | | | | | | 1 | | |
| CRUSTACEA gen. & sp. indet. | 7 | 3 | 1 | | 3 | | 2 | | 1 | 3 | 10 | 2 | 5 | | 8 | 1 | 1 | 7 | 19 | 1 | | | 2 | 2 | |
| fish scales | | | | | | | | | | | | | | | | | | | 2 | | 1 | | | | |
| TOTAL | 166 | 81 | 56 | 107 | 84 | 126 | 92 | 186 | 27 | 34 | 85 | 49 | 69 | 20 | 80 | 92 | 109 | 35 | 152 | 80 | 212 | 86 | 78 | 71 | 63 |
| NUMBER OF SPECIES | 17 | 13 | 14 | 13 | 14 | 12 | 11 | 15 | 8 | 13 | 16 | 13 | 15 | 6 | 10 | 13 | 14 | 9 | 16 | 13 | 17 | 12 | 13 | 11 | 13 |
| FOSSIL ABUNDANCE | c | c | c | a | c | c | c | va | a | f | c | f | c | r | a | a | c | f | a | a | va | f | f | c | c |
| FOSSIL ASSEMBLAGES | M | M | P | P | M | C-P | M | D | M | D | M | C-P | C-P | S | P | C-P | Ac | An | P | Ac | Ac | An | An | P | P |
| LITHOLOGY | sM | sM | sM | sM | sM | vf | M | vf | sM | M | M | M | M | sM | M | M | sM | M | M | M | M | M | M | M | M |

| PROVINCES | Kawago | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MEMBERS OF STRATA | A | B | | | | | | | | | | | | D | | | | |
| LOCALITIES | 50 | 37 | 38 | 41 | 42 | 43 | 44 | 45 | 46 | 47 a | 47 b | 48 | 49 | 35 | 36 | 39 a | 39 b | 40 |
| **GASTROPODA** | | | | | | | | | | | | | | | | | | |
| Orectospira wadana (YOKOYAMA) | | | | | | | | | | | | | | | | | | |
| Turritella karatsuensis NAGAO | | 19 | | 2 | 2 | 2 | 20 | 3 | 1 | | | 1 | 2 | 1 | 3 | 2 | 1 | 10 |
| T. sakitoensis NAGAO | | | 11 | 1 | | | 5 | | | | | | | | | | | |
| Cerithium sp. | | | | | | | | | | | | | | | | | | |
| Mammilla insignis (NAGAO) | 1 | 1 | | | | | | | 1 | | | | 1 | | | | | 1 |
| Calyptraea cf. imadomariensis H&N. | | | | | | | 1 | | | | | | | | | | | |
| Siphonalia? nipponica O. & M. | | | 1 | | | | | | | | | | | | 1 | 1 | | |
| Molopophorus ? sp. | | | | | | | | | | | | | | | | | | |
| Pseudoperissorax ? sp. | | | | | | | 1 | | | | | | | | | | | |
| Mitra sp. | | | | | | | | | | | | | | | | | | |
| Volutospina japonica (NAGAO) | 3 | 3 | 2 | | | 1 | 4 | | 1 | | | | | | | 1 | | |
| Volutilithus ? sp. | | 1 | | | | | | 1 | 1 | | | | | | | | | 2 |
| Makiyamaia kurodae SH. & UE. | | | | | | 1 | | 1 | | 1 | | | | | 1 | | | |
| gastropoda gen. & sp. indet. | | | | | | | 1 | | | | | | 1 | | | 1 | | 2 |
| **SCAPHOPODA** | | | | | | | | | | | | | | | | | | |
| Dentalium sp. | | 2 | 2 | | 9 | 31 | 3 | 2 | 9 | 2 | 26 | 2 | 8 | 3 | 5 | 9 | 27 | 7 |
| **PELECYPODA** | | | | | | | | | | | | | | | | | | |
| Malletia sp. | | | | | | 1 | | | | | | | | | | | | |
| Saccella sp. | | 1 | | 7 | 7 | 25 | 1 | 2 | 7 | | | | 1 | 2 | 4 | 8 | 7 | 8 |
| Portlandia sp. | | | | | | | | | | | | | | | | | | |
| Nucula hizenensis NAGAO | 3 | 1 | | 44 | 2 | 37 | | 5 | 3 | 2 | | 4 | 57 | 1 | 7 | 15 | 10 | 2 |
| Ennucula sp. | | | | | 1 | 5 | | | 2 | 1 | | | | | 1 | | 7 | 2 |
| Acila nagaoi OYAMA & MIZ. | | 2 | 1 | | 1 | | 4 | 6 | | | | 1 | 3 | | | | | |
| Glycymeris sp. | | | | | | | 4 | | | | | | | | | | | 1 |
| Solamen subfornicatum (N.) | | | | | 1 | | | 1 | 1 | | 1 | | | | | | | |
| Ostrea sakitoensis NAGAO | | | | | | | | | | | | | | | | | | |
| Crassatellites matsuraensis (N.) | | 2 | 2 | | 2 | | 3 | | 1 | 1 | | | 4 | | | | | 1 |
| Venericardia yoshidai NAGAO | | | | | | | | | | | 1 | | | | | | | 1 |
| V. subnipponica NAGAO | | | | | 1 | | | 2 | | | | | 1 | | | | | |
| Cardium kishimaense NAGAO | 4 | 9 | 14 | 7 | 9 | 5 | 30 | | 4 | 1 | | | 10 | 1 | 5 | 6 | 2 | 33 |
| Pitar yokoyamai (NAGAO) | | | | | 1 | 1 | | 11 | | | | | | | | | | |
| P. matsuraensis (NAGAO) | | 5 | 1 | 3 | 10 | 10 | 7 | 2 | 2 | 2 | | 3 | 9 | 9 | 3 | 10 | 19 | 27 |
| Cyclina compressa (NAGAO) | | 3 | | 8 | 6 | 10 | 2 | 1 | 1 | 1 | 2 | | 7 | 7 | 6 | 14 | 4 | 18 |
| Angulus maximus (NAGAO) | | 1 | | 4 | 2 | 5 | 3 | 5 | 4 | | | | 3 | | 5 | 6 | 14 | 9 |
| Solen sp. | | | | | 2 | | 1 | | | | | | | | | | | |
| Aloides? sp. | | | | | | | | | | | | | | | | | | |
| Pholadomya margaritacea (SOW.) | | | | | 1 | 1 | | | 1 | | | | | | | | | 8 |
| Periploma cf. iesakai O. & M. | | | | 1 | 1 | | | | | 2 | | | 1 | | | 2 | | |
| pelecypoda gen. & sp. indet. | | | | | | | | | 1 | | | | 5 | | | | | |
| CRUSTACEA gen. & sp. indet. | | 1 | | 14 | 7 | 5 | | 1 | | 8 | | 16 | 1 | | 1 | 1 | 10 | |
| fish scales | | | | | | | | | | | | | | | | | | |
| TOTAL | 11 | 51 | 34 | 91 | 65 | 140 | 90 | 43 | 40 | 21 | 30 | 27 | 114 | 24 | 42 | 76 | 101 | 132 |
| NUMBER OF SPECIES | 4 | 14 | 8 | 10 | 18 | 15 | 16 | 14 | 16 | 10 | 4 | 6 | 16 | 7 | 12 | 13 | 10 | 16 |
| FOSSIL ABUNDANCE | r | c | va | c | c | a | c | c | c | f | c | f | a | f | c | c | c | a |
| FOSSIL ASSEMBLAGES | ? | C-P | T | N | M | S-N | C-P | ? | D | ? | D | N | N | P | M | M | D | C-P |
| LITHOLOGY | sM | vf | fS | sM | M | M | vf | sM | sM | sM | M | sM | vf | M | M | M | vf | M |

N: Nucula, S-N: Saccella-Nucula, S: Saccella, M: Mixed assemblage, D: Dentalium, Ac: Acila, An: Angulus, C: Cardium, C-P: Cardium-Pitar, P: Pitar, T: Turritella

fS: fine grained Ss. fv: very fine grained Ss. sM: sandy Mds. M: Mds. T: Tuff

第4表-B　杵島層の動物化石産出表（北部・南部・西部地域）

Table 4-B　Occurrences of fossils of Kishima formation, in northern, southern and western parts

| PROVINCES | OUKAWANO | | |