論説：四国北西部の中央構造線活断層系伊予断層の完新世活動履歴
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（118 巻 4 号　p.220-235.）

Table 1. Description of strata exposed on the Miaki trench walls.

Table 2. Radiocarbon ages for samples from the Miaki trench site.

Table 3. Description of strata exposed on the Ichiba trench walls.

Table 4. Radiocarbon ages for samples from the Ichiba trench site.

| Unit | Thickness (cm) | Colour | Description |
|---|---|---|---|
| Southeastern part of fault | | | |
| S1 | 10–20 | Gray to gray brown | Sorted silt with minor cobbles. Overbank deposit or former cultivated soil. |
| S2 | 5–10 | Dark brown to gray | Sorted silt with minor granules or pebbles. Flood loam or former cultivated soil. |
| S3 | 20–60 | Brownish gray to dark brown | Sorted silt with minor pebbles. Flood loam. |
| S4 | 20–30 | Gray brown to dark brown | Well-sorted silty sand with minor granules or pebbles. Flood loam. |
| S5a | 50–100 | Gray | Humic soil including a lot of plants and rare cobbles. Overbank deposit (floodbasin deposit). |
| S5b | 10 | Gray | Lamination of silt including volcanic glasses with sand. Including minor granules. Transitional deposit (channel-fill deposit). |
| S5c | 60+ | Gray to dark gray | Stratified pebble to cobble gravel. Heteropic facies with S5b. Transitional deposit (channel-fill deposit). |
| S6 | 20–50 | Black | Upper part: granule gravel supported with humic clay matrix. Lower part: pebble to cobble gravel supported with humic silt matrix. Both parts include a lot of plants. |
| S7 | 60 | Gray brown | Clast-supported pebble to cobble gravel. Channel deposit (channel-lag deposit). |
| Northwestern part of fault | | | |
| N1a | 30 | Dark gray | Clast-supported pebble to cobble gravel. Channel deposit (Channel-lag deposit). |
| N1b | 40+ | Dark reddish brown | Clast-supported pebble to boulder gravel. Channel deposit (Channel-lag deposit). |
| N2 | 60–80 | Dark gray | Clast-supported pebble to cobble gravel. Channel deposit (Channel-lag deposit). Well sorted and stratified in the northeastern part. Random fabric in the southwestern part. |
| Basement rock | | | |
| Da | – | Gray white | Cataclastic fractured and alterative rock. Alternated structure of dacite and mudrock origin gouge near the fault. |
| Ms | – | Black to bluish gray | |

Table 1
池田ほか(2011)
白黒図面
100%

| Sample No. | Labo. No.* | Unit | Material | $\delta^{13}$CPDB(‰) | $^{14}$C age** (yrBP ±1σ) | Calibrated age range (cal years ±1σ)*** | Probability (%) |
|---|---|---|---|---|---|---|---|
| Northeast wall | | | | | | | |
| MCE-3 | IAAA-73191 | S6 | charcoal | −25.67±0.62 | 870±30 | A.D.1150–A.D.1220 | 68.2 |
| MCE-4 | IAAA-73192 | S5a | charcoal | −24.91±0.78 | 950±30 | A.D.1030–A.D.1060 | 16.2 |
| | | | | | | A.D.1080–A.D.1160 | 52.0 |
| MCE-6 | IAAA-73194 | S4 | charcoal | −27.87±0.63 | 1260±30 | A.D.685–A.D.755 | 55.8 |
| | | | | | | A.D.760–A.D.775 | 12.4 |
| MCE-9 | IAAA-73197 | S3 | charcoal | −30.46±0.40 | 190±30 | A.D.1660–A.D.1690 | 14.5 |
| | | | | | | A.D.1730–A.D.1810 | 40.0 |
| | | | | | | A.D.1930–A.D.1960 | 13.7 |
| MCE-10 | IAAA-731978 | S3 | charcoal | −33.59±0.56 | 240±30 | A.D.1640–A.D.1670 | 45.1 |
| | | | | | | A.D.1780–A.D.1800 | 23.1 |
| MCE-14 | IAAA-80269 | S5a | wood fragment | −27.82±0.48 | 480±30 | A.D.1395–A.D.1435 | 68.2 |
| MCE-17 | IAAA-80270 | S5a | charcoal | −22.68±0.50 | 400±30 | A.D.1460–A.D.1530 | 39.0 |
| | | | | | | A.D.1570–A.D.1630 | 29.2 |
| MCE-20 | IAAA-80274 | S3 | charcoal | −28.05±0.80 | 1180±30 | A.D.710–A.D.750 | 19.2 |
| | | | | | | A.D.760–A.D.870 | 49.0 |
| MCE-30 | IAAA-80272 | S4 | charcoal | −21.75±0.54 | 620±30 | A.D.1320–A.D.1350 | 33.3 |
| | | | | | | A.D.1390–A.D.1420 | 34.9 |
| Southwest wall | | | | | | | |
| MCW-1 | IAAA-73200 | N2 | wood fragment | −28.10±0.83 | 510±30 | A.D.1410–A.D.1435 | 68.2 |
| MCW-2 | IAAA-73201 | N2 | charcoal | −27.77±0.61 | 750±30 | A.D.1250–A.D.1285 | 68.2 |
| MCW-3 | IAAA-73202 | S7 | wood fragment | −29.84±0.61 | 5310±30 | B.C.4230–B.C.4190 | 14.8 |
| | | | | | | B.C.4180–B.C.4050 | 53.4 |
| MCW-4 | IAAA-73203 | S6 | charcoal | −24.46±0.75 | 1150±30 | A.D.780–A.D.790 | 1.5 |
| | | | | | | A.D.820–A.D.850 | 7.9 |
| | | | | | | A.D.860–A.D.900 | 27.1 |
| | | | | | | A.D.910–A.D.970 | 31.7 |
| MCW-6 | IAAA-73205 | S5a | charcoal | −27.73±0.65 | 420±30 | A.D.1435–A.D.1470 | 68.2 |
| MCW-8 | IAAA-73207 | S5a | charcoal | −29.62±0.49 | 820±30 | A.D.1210–A.D.1260 | 68.2 |
| MCW-9 | IAAA-73208 | S4 | charcoal | −27.64±0.72 | 370±30 | A.D.1450–A.D.1530 | 46.7 |
| | | | | | | A.D.1590–A.D.1620 | 21.5 |
| MCW-16 | IAAA-73215 | S2 | charcoal | −26.35±0.72 | 240±30 | A.D.1640–A.D.1670 | 44.5 |
| | | | | | | A.D.1780–A.D.1800 | 23.7 |
| MCW-19 | IAAA-80273 | S5a | wood fragment | −25.09±0.53 | 640±30 | A.D.1290–A.D.1315 | 26.6 |
| | | | | | | A.D.1355–A.D.1390 | 41.6 |
| MCW-20 | IAAA-80274 | S5a | wood fragment | −28.49±0.51 | 400±30 | A.D.1420–A.D.1450 | 68.2 |
| MCW-21 | IAAA-80275 | S5a | wood fragment | −29.55±0.52 | 450±30 | A.D.1400–A.D.1435 | 68.2 |
| MCW-25 | IAAA-80276 | S5a | charcoal | −23.61±0.80 | 1150±30 | A.D.885–A.D.905 | 14.6 |
| | | | | | | A.D.910–A.D.970 | 53.6 |
| MCW-31 | IAAA-80278 | S3 | charcoal | −25.64±0.50 | 900±30 | A.D.1040–A.D.1100 | 40.1 |
| | | | | | | A.D.1110–A.D.1170 | 28.1 |

* All samples were analyzed by AMS at Institute of Accelerator Analysis Ltd.

** $^{14}$C ages were corrected by $\delta^{13}$C and calculated using Libby half-life of 5568 years.

*** Calibration is carried by OxCal v4.1 (Ramsey., 2009) bsed on IntCal09 atomospheric curve (Reimer et al., 2009).

Table 2
池田ほか(2011)
白黒図面
縮尺100%

| Unit | Thickness (cm) | Colour | Description |
|---|---|---|---|
| Northwestern part of fault | | | |
| N1 | 10–20 | Bright yellowish brown | Sorted silty sand. Flood loam or flood deposit. |
| N2 | 20–100+ | Greenish gray | Cobble to boulder gravel. Channel deposit (channel–lag deposit). |
| N3 | 20–30 | Dark brown | Pebble gravel. Channel deposit (channel–lag deposit). |
| N4 | 50 | Yellowish brown | Pebble gravel supported with silt matrix. Including minor boulders. Channel deposit (channel–lag deposit). |
| N5 | 100+ | Yellowish brown | Silt including a lot of plants and charred materials. Overbank deposit (floodbasin deposit). |
| N6 | 50–100 | Dark brown | Clast–supported pebble to boulder gravel. Channel deposit (channel–lag deposit). |
| Southeastern part of fault | | | |
| S1 | 20–50 | Yellowish brown | Well–sorted silt. Flood loam or flood deposits. |
| S2 | 50 | Dark greenish brown | Clast–supported pebble to cobble gravel. Including rare boulders. Channel deposit (channel–lag deposit). |
| S3 | 10–30 | Dark brown | Matrix–supported pebble gravel. Channel deposit (channel–lag deposit). |
| S4 | 30–100 | Yellowish brown | Well–sorted silty sand. Including minor pebbles. |
| S5 | 10–150 | Dark brown | Matrix–supported weathered pebble gravel with minor boulders. Channel deposit (channel–lag deposit). |
| Deformed zone | | | |
| D1 | – | – | Parts of some different units are intermixed. |
| Basement rock | | | |
| Da | – | Gray white | Cataclastic fractured and alterative rock. Alternated structure of dacite and mudrock origin gouge near the fault. |
| Ms | – | Black to bluish gray | |

Table 3
池田ほか(2011)
白黒図面
100%

| Sample No. | Labo. No.* | Unit | Material | $\delta^{13}$CPDB(‰) | $^{14}$C age** (yrBP ±1σ) | Calibrated age range (cal years ±1σ)*** | Probability (%) |
|---|---|---|---|---|---|---|---|
| Trench A (Northeast wall) | | | | | | | |
| IC-1 | IAAA-80204 | N6 | soil | −23.05±0.50 | 23340±100 | B.C.21490–B.C.21280**** | |
| IC-2 | IAAA-80205 | N4 | soil | −20.30±0.64 | 7450±40 | B.C.6380–B.C.6330 | 28.7 |
| | | | | | | B.C.6320–B.C.6250 | 39.5 |
| IC-3 | IAAA-80206 | N3 | soil | −24.18±0.76 | 7540±40 | B.C.6445–B.C.6390 | 68.2 |
| IC-4 | IAAA-80207 | D1 | soil | −21.15±0.61 | 7860±40 | B.C.6760–B.C.6640 | 68.2 |
| IC-5 | IAAA-80208 | S4 | humic soil | −21.91±0.63 | 4140±30 | B.C.2870–B.C.2830 | 14.3 |
| | | | | | | B.C.2820–B.C.2800 | 5.5 |
| | | | | | | B.C.2760–B.C.2660 | 44.2 |
| | | | | | | B.C.2650–B.C.2630 | 4.3 |
| IC-6 | IAAA-80209 | S1 | humic soil | −25.01±0.59 | 2760±30 | B.C.970–B.C.960 | 4.9 |
| | | | | | | B.C.940–B.C.890 | 37.2 |
| | | | | | | B.C.880–B.C.840 | 26.1 |
| Trench B (Northeast wall) | | | | | | | |
| IC-7 | IAAA-80210 | S5 | soil | −22.63±0.71 | 13870±60 | B.C.14780–B.C.14360 | 68.2 |
| Trench B (Southwest wall) | | | | | | | |
| IC-8 | IAAA-80211 | N5 | charcoal | −24.28±0.55 | 6010±40 | B.C.4945–B.C.4840 | 68.2 |
| IC-9 | IAAA-80212 | D1 | soil | −23.26±0.75 | 2980±30 | B.C.1270–B.C.1120 | 68.2 |
| IC-10 | IAAA-80213 | S1 | soil | −19.82±0.65 | 6500±40 | B.C.5520–B.C.5460 | 51.5 |
| | | | | | | B.C.5440–B.C.5420 | 3.7 |
| | | | | | | B.C.5410–B.C.5380 | 13.0 |
| Trench C (Southeast wall) | | | | | | | |
| IC-11 | IAAA-80214 | S5 | soil | −21.75±0.74 | 6950±40 | B.C.5880–B.C.5770 | 68.2 |
| IC-12 | IAAA-80215 | S5 | soil | −21.41±0.68 | 6990±40 | B.C.5980–B.C.5950 | 13.2 |
| | | | | | | B.C.5920–B.C.5830 | 55.0 |
| IC-13 | IAAA-80216 | S1 | soil | −22.82±0.69 | 7890±40 | B.C.6810–B.C.6650 | 68.2 |
| IC-14 | IAAA-80217 | S1 | soil | −19.58±0.77 | 1990±30 | B.C.40–A.D.30 | 57.7 |
| | | | | | | A.D.35–A.D.50 | 10.5 |
| Trench C (Northwest wall) | | | | | | | |
| IC-15 | IAAA-80218 | S4 | soil | | 6910±40 | B.C.5835–B.C.5820 | 7.9 |
| | | | | | | B.C.5815–B.C.5740 | 60.3 |
| Trench D (Southeast wall) | | | | | | | |
| IC-16 | IAAA-80219 | N6 | soil | −19.25±0.77 | 7520±40 | B.C.6440–B.C.6380 | 68.2 |
| IC-17 | IAAA-80220 | N5 | humic soil | −24.42±0.59 | 9050±40 | B.C.8290–B.C.8250 | 68.2 |
| IC-18 | IAAA-80221 | N4 | soil | −21.79±0.66 | 7180±40 | B.C.6065–B.C.6010 | 68.2 |
| IC-19 | IAAA-80222 | N1 | soil | −22.03±0.64 | 8320±40 | B.C.7460–B.C.7330 | 68.2 |
| IC-20 | IAAA-80223 | N1 | soil | −25.19±0.43 | 7000±40 | B.C.5980–B.C.5940 | 16.0 |
| | | | | | | B.C.5920–B.C.5840 | 52.2 |

* All samples were analyzed by AMS at Institute of Accelerator Analysis Ltd.

** $^{14}$C ages were corrected by $\delta^{13}$C and calculated using Libby half-life of 5568 years.

*** Calibration is carried by OxCal v4.1 (Ramsey., 2009) based on IntCal09 atomospheric curve (Reimer et al., 2009).

**** Out of calibration range.

Table 4
池田ほか(2011)
白黒図面
縮尺100%