Supplementary Table 1. Chronology of cores KDA, KDB, INB, SJ96, HS02, and JZ01. Radiocarbon ages obtained from plant material, wood, peat, and charred material were calibrated using IntCal20 (Reimer et al., 2020), whereas shell samples were calibrated using Marine20 (Heaton et al., 2020) with a local ΔR correction of 83 ± 16 yr (Kim et al., 2021), employing the CALIB 8.2 program (Stuiver and Reimer, 1993).

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Core | Depth in core (m) | Material | δ¹³C (‰) | 14C age (BP) | Calibrated  14C age  (cal. yr BP) | 2 sigma | Lab ID | Reference |
| KDA | 4.25 | Wood | –28.1 | 1520 ± 40 | 1393 | 1311–1517 | Beta-190546 | Yamada and Takayasu (2006a) |
| KDA | 7.40 | Wood | –22.6 | 1990 ± 40 | 1922 | 1824–2041 | Beta-190542 | Yamada and Takayasu (2006a) |
| KDA | 11.33 | Charred material | –25.5 | 2100 ± 40 | 2064 | 1944–2294 | Beta-160966 | Yamada and Takayasu (2006a) |
| KDB | 12.92 | Shell (*Corbicula*) | –7 | 1080 ± 40 | 443 | 289–558 | Beta-150972 | Yamada and Takayasu (2006a) |
| KDB\* | 16.69 | Plant material | –25 | 2390 ± 40 | 2426 | 2339–2695 | Beta-190539 | Yamada and Takayasu (2006a) |
| KDB | 19.38 | Plant material | –27.7 | 3810 ± 40 | 4202 | 4086–4404 | Beta-160965 | Yamada and Takayasu (2006a) |
| KDB | 23.21 | Shell (*Dosinia*) | –0.4 | 7560 ± 40 | 7754 | 7607–7913 | Beta-150973 | Takayasu (2019) |
| KDB | 28.74 | Shell (*Corbicula*) | –8.2 | 9100 ± 40 | 9526 | 9382–9709 | Beta-150974 | Takayasu (2019) |
| INB | 2.35 | Plant material | –25.5 | 3200 ± 30 | 3418 | 3366–3459 | Beta-294562 | Seto et al. (2012) |
| INB | 2.78 | Plant material | –14.6 | 3190 ± 40 | 3411 | 3275–3481 | Beta-293129 | Seto et al. (2012) |
| INB | 3.23 | Plant material | –26.9 | 3710 ± 40 | 4046 | 3923–4223 | Beta-293128 | Seto et al. (2012) |
| INB | 3.67 | Plant material | –26.7 | 3540 ± 40 | 3826 | 3697–3960 | Beta-293136 | Seto et al. (2012) |
| INB | 4.28 | Plant material | –26.8 | 4060 ± 40 | 4546 | 4420–4798 | Beta-293135 | Seto et al. (2012) |
| INB | 4.70 | Plant material | –26.7 | 3970 ± 40 | 4438 | 4292–4526 | Beta-293134 | Seto et al. (2012) |
| INB | 5.62 | Peat | –27.1 | 4230 ± 40 | 4748 | 4621–4862 | Beta-293133 | Seto et al. (2012) |
| INB | 9.31 | Plant material | –27.9 | 4520 ± 40 | 5161 | 5045–5313 | Beta-293132 | Seto et al. (2012) |
| INB | 10.81 | Plant material | –30.0 | 4860 ± 40 | 5592 | 5477–5701 | Beta-293131 | Seto et al. (2012) |
| INB | 11.62 | Shell | –3.6 | 4900 ± 30 | 4894 | 4708–5079 | PLD-16476 | Seto et al. (2012) |
| INB | 12.36 | Plant material | –28.9 | 5390 ± 50 | 6198 | 6004–6291 | Beta-293141 | Seto et al. (2012) |
| INB | 13.71 | Plant material | –27.1 | 6270 ± 40 | 7206 | 7020–7271 | Beta-288678 | Seto et al. (2012) |
| INB | 14.75 | Plant material | –28.2 | 7170 ± 50 | 7983 | 7866–8164 | Beta-293140 | Seto et al. (2012) |
| INB | 15.41 | Plant material | –30.4 | 7450 ± 40 | 8268 | 8184–8358 | Beta-288679 | Seto et al. (2012) |
| INB | 15.90 | Plant material | –26.0 | 7590 ± 50 | 8393 | 8220–8519 | Beta-293139 | Seto et al. (2012) |
| INB | 18.38 | Plant material | –27.6 | 37650 ± 530 | 42097 | 41417–42537 | Beta-293138 | Seto et al. (2012) |
| INB | 18.90 | Plant material | –25.7 | 36640 ± 460 | 41550 | 40896–42140 | Beta-293137 | Seto et al. (2012) |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Core | Depth in core (m) | Material | δ¹³C (‰) | 14C age (BP) | Calibrated  14C age  (cal. yr BP) | 2 sigma | Lab. ID | Reference |
| SJ96 | 2.35 | Shell (*Potamocorbula*) | –1.5 | 3400 ± 40 | 2981 | 2797–3163 | Beta-198301 | Yamada and Takayasu (2006b) |
| SJ96\* | 2.96 | Shell (*Potamocorbula*) | 0 | 4397 ± 50 | 4249 | 4029–4445 | GrA-11121 | Takayasu (2001) |
| SJ96 | 3.01 | Shell (*Potamocorbula*) | –1 | 3480 ± 40 | 3084 | 2887–3266 | Beta-198303 | Yamada and Takayasu (2006b) |
| SJ96\* | 4.15 | Shell (*Potamocorbula*) | 0 | 5297 ± 60 | 5385 | 5194–5579 | GrA-11141 | Takayasu (2001) |
| SJ96 | 5.97 | Shell (sp. unknown) | –7.5 | 6160 ± 40 | 6309 | 6155–6478 | Beta-198304 | Yamada and Takayasu (2006b) |
| SJ96\* | 6.30 | Shell (*Potamocorbula*) | 0 | 6492 ± 50 | 6667 | 6472–6864 | GrA-11127 | Takayasu (2001) |
| SJ96 | 7.43 | Shell (sp. unknown) | –2.1 | 6540 ± 40 | 6723 | 6539–6907 | Beta-202275 | Yamada and Takayasu (2006b) |
| SJ96\* | 7.93 | Shell (*Potamocorbula*) | 0 | 6207 ± 60 | 6356 | 6176–6554 | GrA-11128 | Takayasu (2001) |
| SJ96\* | 9.22 | Shell (*Macoma*) | 0 | 7537 ± 80 | 7734 | 7545–7937 | GrA-11129 | Takayasu (2001) |
| SJ96 | 10.43 | Shell (sp. unknown) | –1.8 | 7500 ± 50 | 7696 | 7540–7866 | Beta-198302 | Yamada and Takayasu (2006b) |
| SJ96\* | 11.30 | Shell (*Paphia*) | 0 | 8077 ± 60 | 8285 | 8088–8463 | GrA-11130 | Takayasu (2001) |
| SJ96 | 13.09 | Shell (sp. unknown) | –3.5 | 8290 ± 40 | 8511 | 8357–8695 | Beta-202274 | Yamada and Takayasu (2006b) |
| SJ96\* | 14.20 | Shell (*Corbicula*) | –7 | 8444 ± 60 | 8725 | 8514–8969 | GrA-11131 | Takayasu (2001) |
| SJ96 | 14.22 | Shell (sp. unknown) | –6.4 | 8310 ± 50 | 8538 | 8364–8750 | Beta-202273 | Yamada and Takayasu (2006b) |
| JZ01 | 1.33 | Wood | –26.6 | 190 ± 40 | 178 | 0–306 | Beta-166772 | Yamada et al. (2004) |
| JZ01 | 3.99 | Organic sediment | –25.4 | 1100 ± 40 | 1005 | 926–1174 | Beta-202279 | Yamada and Takayasu (2006b) |
| JZ01 | 6.46 | Plant material | –27.6 | 1600 ± 40 | 1471 | 1387–1544 | Beta-190544 | Yamada et al. (2004) |
| JZ01 | 7.25 | Wood | –28 | 1980 ± 40 | 1910 | 1751–2036 | Beta-190543 | Yamada et al. (2004) |
| JZ01 | 14.24 | Shell (sp. unknown) | –4.9 | 4230 ± 40 | 4023 | 3838–4219 | Beta-166774 | Yamada et al. (2004) |
| JZ01 | 15.03 | Wood | –28.6 | 4420 ± 40 | 5010 | 4865–5278 | Beta-166775 | Yamada et al. (2004) |
| JZ01 | 16.76 | Charred material | –25.8 | 6160 ± 40 | 7061 | 6945–7163 | Beta-166776 | Yamada et al. (2004) |
| JZ01 | 18.29 | Wood | –25.8 | 6890 ± 40 | 7721 | 7620–7833 | Beta-166777 | Yamada et al. (2004) |
| JZ01 | 19.78 | Echinoid fragment | –1.6 | 7700 ± 40 | 7892 | 7724–8032 | Beta-166778 | Yamada et al. (2004) |
| JZ01 | 20.46 | Shell (*Paphia*) | –0.4 | 8400 ± 40 | 8661 | 8465–8888 | Beta-166779 | Yamada et al. (2004) |
| JZ01 | 22.14 | Wood | –27.3 | 8260 ± 40 | 9238 | 9033–9416 | Beta-166780 | Yamada et al. (2004) |
| JZ01 | 23.51 | Shell (*Corbicula*) | –5.2 | 8560 ± 40 | 8880 | 8659–9065 | Beta-166781 | Yamada et al. (2004) |
| HS02 | 1.17 | Wood | –27.8 | 1140 ± 40 | 1036 | 957–1176 | Beta-174421 | Yamada and Takayasu (2006b) |
| HS02 | 9.15 | Wood | –29.5 | 1520 ± 40 | 1393 | 1311–1517 | Beta-190545 | Yamada and Takayasu (2006b) |
| HS02 | 10.85 | Shell (*C. leana*) | –5.3 | 1680 ± 40 | 989 | 828–1154 | Beta-174423 | Yamada and Takayasu (2006b) |
| HS02 | 15.14 | Wood | –27.9 | 2710 ± 40 | 2812 | 2750–2911 | Beta-174424 | Yamada and Takayasu (2006b) |
| HS02 | 22.96 | Plant material | –30.8 | 3410 ± 40 | 3651 | 3497–3825 | Beta-190547 | Yamada and Takayasu (2006b) |
| HS02 | 23.91 | Plant material | –27.0 | 3650 ± 40 | 3972 | 3849–4089 | Beta-174425 | Yamada and Takayasu (2006b) |
| HS02 | 26.22 | Plant material | –26.1 | 4740 ± 40 | 5487 | 5326–5582 | Beta-174426 | Yamada and Takayasu (2006b) |
| HS02 | 28.32 | Plant material | –24.3 | 6580 ± 50 | 7481 | 7422–7572 | Beta-174427 | Yamada and Takayasu (2006b) |
| HS02 | 31.05 | Echinoid fragment | –3.0 | 7350 ± 50 | 7553 | 7406–7708 | Beta-174428 | Yamada and Takayasu (2006b) |
| HS02 | 33.65 | Wood | –27.0 | 8170 ± 50 | 9115 | 9007–9275 | Beta-202276 | Yamada and Takayasu (2006b) |
| HS02 | 35.06 | Shell (sp. unknown) | –2.9 | 8830 ± 40 | 9235 | 9043–9410 | Beta-174429 | Yamada and Takayasu (2006b) |
| HS02 | 38.94 | Shell (*C. japonica*) | –6.0 | 9300 ± 40 | 9791 | 9557–10022 | Beta-174430 | Yamada and Takayasu (2006b) |

\* For samples lacking measured δ¹³C values, δ¹³C values of −25‰ were assumed for plant material, 0‰ for shells of *Potamocorbula*, *Macoma*, and *Paphia*, and −7‰ for *Corbicula* when converting the ¹⁴C ages to conventional ¹⁴C ages.

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