**Humblet *et. al*, Supplementary Table 1**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| IODP Sample ID | Lab code | Lab | Depth Below Sea Level, mbsl (m) | Depth below modern sea floor, mbsf (m) | Dated Lithology | Species/lithology info | Context info | d13C(‰) | ±1s | 14C age(yr BP) | ±1s | Calibrated 14C age (CalBP) | ±2s | Duplicate | U-Th age(yr BP) | ±2s | Coring uncertainty (m) | Inflection Point (IP) |   |
| 14C age (CalBP) | ±2s |
| 325-M0040A-02R-1W 16-17 | SANU-14227 | ANU | 132.835 | 1.665 | Coral | *Heteropsammia cochlea* | IS? | -7.55 | ± 0.23 | 9,030 | ± 40 | **9,700** | ± 160 |   |   |   |   | 1.33 | 9 | [1]\*, [2]\* |
| 325-M0040A-03R-1W 0-3 | YAUT-005424 | AORI | 134.185 | 3.015 | Coralline algae | aA4 | IS? | 2.15 | ± 3.10 | 14,639 | ± 62 | **17,310** | ± 220 | **± 17347** | ± 218 |   |   | 1.76 | 8 |   |
| 325-M0040A-03R-1W 0-3B | YAUT-005433 | AORI | 134.185 | 3.015 | Coralline algae | aA4 | IS? | 2.44 | ± 1.88 | 14,698 | ± 55 | **17,385** | ± 215 |   |   |   |   | 1.76 |   |
| 325-M0040A-03R-1W 1-5 | MTC-15118 | AORI | 134.2 | 3.03 | Bryozoa | - | IS? | 4.71 | ± 1.28 | 8,414 | ± 57 | **9,005** | ± 205 |  |  |  |  | 1.76 |  |  |
| 325-M0040A-04R-1W 7-9 | MTC-15120 | AORI | 136.25 | 5.08 | Bioclast | - | ISX | 11.24 | ± 5.03 | 10,156 | ± 76 | **11,120** | ± 200 |  |  |  |  | 1.23 |  |  |
| 325-M0040A-04R-2W 7-8 | SANU-14229 | AORI | 136.425 | 5.255 | Coral | *Cyphastrea*? | ISX | -8.51 | ± 0.25 | 13,240 | ± 40 | **15,315** | ± 195 | **± 15395** | ± 235 |  |  | 1.23 |  | [1]\* |
| 325-M0040A-04R-CCW 7-8 | MTC-15119 | AORI | 136.425 | 5.255 | Coral? | Unknown | ISX | -2.96 | ± 1.68 | 13,363 | ± 73 | **15,475** | ± 275 |   |  |  |  | 1.23 |  |  |
| 325-M0040A-7R-1W 18-19 | YAUT-060015 | AORI | 140.855 | 9.685 | Echinoid spine | - | ISX | 1.60 | ± 1.40 | 16,544 | ± 41 | **19,455** | ± 175 |  |  |  |  | 0.98 |  |  |
| 325-M0040A-7R-1W 21.5-24 | YAUT-060016 | AORI | 140.8975 | 9.7275 | Calcareous tube | - | IS | 2.80 | ± 1.30 | 16,630 | ± 40 | **19,595** | ± 175 |   |   |   |   | 0.98 | 6 |   |
| 325-M0040A-7R-1W 36-37.5 | YAUT-060017 | AORI | 141.0375 | 9.8675 | Calcareous tube | - | IS | 0.80 | ± 0.80 | 17,167 | ± 40 | **20,205** | ± 195 |   |   |   |   | 0.98 |   |
| 325-M0040A-08R-1W 130-132 | YAUT-008924 | AORI | 143.48 | 12.31 | Coral  | *Porites* | IS | -9.57 | ± 0.32 | 21,344 | ± 71 | **25,280** | ± 240 |  |  |  |  | 0.07 |  |  |
| 325-M0040A-08R-1W 35-38 | YAUT-003224 | AORI | 142.535 | 11.365 | Coral | *Pachyseris speciosa* | IS | 17.97 | ± 8.78 | 20,612 | ± 165 | **24,350** | ± 500 |   |   |   |   | 0.07 | 5 |   |
| 325-M0040A-08R-1W 38-40 | YAUT-008923 | AORI | 142.56 | 11.39 | Coral  | *Pachyseris speciosa* | IS | -7.38 | ± 1.02 | 20,223 | ± 68 | **23,840** | ± 240 |   |   |   |   | 0.07 |   |
| 325-M0040A-08R-1W 93-97 | YAUT-003232 | AORI | 143.12 | 11.95 | Coral | *Pachyseris speciosa* | IS | -16.24 | ± 5.24 | 20,294 | ± 153 | **23,925** | ± 425 |  |  |  |  | 0.07 |  |  |
| 325-M0040A-08R-CCW 0-3 | MTC-15121 | AORI | 143.525 | 12.355 | Coral | *Porites*? | IS | 0.00 | ± 0.00 | 21,224 | ± 120 | **25,050** | ± 450 |  |  |  |  | 0.07 |  |  |
| 325-M0040A-08R-CCW 5-8 | MTC-15122 | AORI | 143.575 | 12.405 | Coral | *Porites*? | ISX | -2.92 | ± 0.87 | 21,240 | ± 121 | **25,050** | ± 450 |  |  |  |  | 0.07 |  |  |
| 325-M0040A-09R-1W 23-25 | YAUT-005426 | AORI | 143.91 | 12.74 | Coralline algae | NA | ISX | 3.55 | ± 6.63 | 23,472 | ± 113 | **27,360** | ± 240 | **± 26786** | ± 297 |   |   | 1.02 | 3 |   |
| 325-M0040A-09R-1W 23-25B | YAUT-005432 | AORI | 143.91 | 12.74 | Coralline algae | NA | ISX | 0.17 | ± 2.96 | 22,810 | ± 88 | **26,725** | ± 375 |   |   |   |   | 1.02 |   |
| 325-M0040A-09R-1W 23-25b | YAUT-006323 | AORI | 143.91 | 12.74 | Coralline algae | NA | ISX | 0.08 | ± 0.96 | 22,490 | ± 79 | **26,275** | ± 275 |   |   |   |   | 1.02 |   |
| 325-M0040A-09R-1W 25-27 | MTC-15123 | AORI | 143.93 | 12.76 | Bioclast | - | ISX | 0.00 | ± 0.00 | 23,885 | ± 162 | **27,625** | ± 245 |   |   |   |   | 1.02 |   |
| 325-M0040A-09R-1W 9-12 | MTC-15124 | AORI | 143.775 | 12.605 | Coral | *Porites*/*Montipora* | ISX | 0.00 | ± 0.00 | 21,469 | ± 112 | **25,400** | ± 300 |  |  |  |  | 1.02 |  |  |
| 325-M0040A-06R-1W 35-39 | Sample ID: 7107 | WHO | 139.54 | 8.37 | Coral | *Porites* | IS |   |   |   |   |  |   |   |   | **18381** | 89 | 0.38 | 7 | [2]\* |
| 325-M0040A-06R-1W 72-76 | Sample ID: 7112 | WHO | 139.91 | 8.74 | Coral | *Porites*? | IS |   |   |   |   |  |   |   |   | **18461** | 36 | 0.38 |   |
| 325-M0040A-08R-2W 5-8 |   | OX | 143.575 | 12.405 | Coral | *Porites* | IS |   |   |   |   |  |   |   |   | **24600** | 200 | 0.07 | 4 | [1]\*, [2]\* |
| 325-M0040A-09R-2W 3-8 | YAUT-000305 | AORI | 144.07 | 12.9 | Large benthic foraminifer | *Operculina* | ISN | -0.50 | ±2.85 | 25252 | ±93 | **28,850** | ± 300 |  |  |  |  | 1.02 |  |  |
| 325-M0040A-10R-1W 20-25 | YAUT-000306 | AORI | 145.37 | 14.2 | Large benthic foraminifer | *Operculina* | ISN | -0.58 | ±2.58 | 25859 | ±95 | **29,550** | ± 350 |   |   |   |   | 0.89 | 2 |   |
| 325-M0040A-11R-1W 0-5 | YAUT-005038 | AORI | 146.67 | 15.5 | Large benthic foraminifer | *Operculina* | ISN | 1.00 | ±1.27 | 28556 | ±124 | **32,000** | ± 550 |  |  |  |  | 1.4 |  |  |
| 325-M0040A-12R-1W 0-5 | YAUT-005036 | AORI | 149.67 | 18.5 | Large benthic foraminifer | *Operculina* | ISN | 0.63 | ±2.06 | 34506 | ±195 | **38,600** | ± 450 |   |   |   |   | 0.4 | 1 |   |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 325-M0041A-01R-2W 140-142 | MTC-15125 | AORI | 133.19 | 1.92 | Coral | - | ISX | 0.00 | ± 0.00 | 10,459 | ± 64 | **11,575** | ± 325 |   |   |   |   | 0.91 | 7 |   |
| 325-M0041A-02R-1W 28-29 | MTC-15126 | AORI | 134.555 | 3.285 | Coral? | - | ISX | 0.00 | ± 0.00 | 12,720 | ± 73 | **14,375** | ± 375 |   |   |   |   | 1.54 | 6 |   |
| 325-M0041A-02R-1W 34-35 | MTC-15127 | AORI | 134.615 | 3.345 | Coral | Acroporidae | ISX | 0.00 | ± 0.00 | 12,710 | ± 71 | **14,350** | ± 350 |   |   |   |   | 1.54 |   |
| 325-M0041A-02R-1W 54-56 | MTC-15366 | AORI | 134.82 | 3.55 | Coral? | - | ISX | 0.23 | ± 1.09 | 13,327 | ± 103 | **15,450** | ± 350 |  |  |  |  | 1.54 |  |  |
| 325-M0041A-02R-1W 70-72 | SANU-27039 | ANU | 134.98 | 3.71 | Coral | Siderastreidae | IS? | -0.40 | ± 0.73 | 13,820 | ± 45 | **16,125** | ± 185 |   |   |   |   | 1.54 | 5 |   |
| 325-M0041A-02R-2W 4-6 | SANU-14230 | ANU | 135.12 | 3.85 | Coral | - | ISX | -1.79 | ± 0.28 | 14,230 | ± 40 | **16,720** | ± 230 | **± 16685** | ± 290 |  |  | 1.54 |  | [1]\* |
| 325-M0041A-02R-CCW 4-6 | MTC-15128 | AORI | 135.12 | 3.85 | Unknown | - | ISX | 0.00 | ± 0.00 | 14,198 | ± 91 | **16,650** | ± 350 |   |  |  |  | 1.54 |  |  |
| 325-M0041A-04R-1W 5-6 | MTC-15364 | AORI | 138.225 | 6.955 | Coral | *Seriatopora*? | ISX | 3.00 | ± 0.60 | 14,294 | ± 119 | **16,775** | ± 425 |  |  |  |  | 1.21 |  |  |
| 325-M0041A-04R-CCW 0-4 | YAUT-003230 | AORI | 138.33 | 7.06 | Coral | *Porites*/*Montipora* | ISX | -12.35 | ± 6.02 | 14,648 | ± 118 | **17,325** | ± 375 |  |  |  |  | 1.21 |  |  |
| 325-M0041A-06R-1W 20-24 | YAUT-003220 | AORI | 141.39 | 10.12 | Coral | *Leptoseris* | IS | 31.42 | ± 19.03 | 15,645 | ± 193 | **18,450** | ± 450 |   |   |   |   | 1.06 | 4 |   |
| 325-M0041A-06R-1W 3-4A | SANU-24505 | ANU | 141.205 | 9.935 | Unknown | - | ISX | -15.55 | ± 0.76 | 7,555 | ± 40 | **8,015** | ± 105 | **± 8030** | ± 105 |  |  | 1.06 |  |  |
| 325-M0041A-06R-1W 3-4B | SANU-24521 | ANU | 141.205 | 9.935 | Unknown | - | ISX | -6.99 | ± 0.62 | 7,600 | ± 40 | **8,045** | ± 105 |   |  |  |  | 1.06 |  |  |
| 325-M0041A-07R-1W 31-33 | YAUT-003231 | AORI | 142.99 | 11.72 | Coral | *Favites* gr. *abdita* | ISX | -17.35 | ± 4.35 | 16,702 | ± 124 | **19,675** | ± 375 |   |   |   |   | 1.05 | 3 |   |
| 325-M0041A-07R-CCW 7-8 | MTC-15103 | AORI | 143.115 | 11.845 | Coral | *Porites*/*Montipora* | ISX | 0.00 | ± 0.00 | 17,714 | ± 119 | **20,875** | ± 375 |   |   |   |   | 1.05 |   |
| 325-M0041A-07R-2W 2-7 | YAUT-000312 | AORI | 143.06 | 11.79 | Large benthic foraminifer | *Baculogypsina* | ISN | -3.42 | ±3.76 | 16991 | ±70 | **19,990** | ± 240 |  |  |  |  | 1.05 |  |  |
| 325-M0041A-08R-1W 10-15 | YAUT-000313 | AORI | 144.27 | 13 | Large benthic foraminifer | *Baculogypsina* | ISN | -4.65 | ±3.88 | 17706 | ±73 | **20,855** | ± 245 |  |  |  |  | 1.04 |  |  |
| 325-M0041A-10R-1W 14-19 | YAUT-000319 | AORI | 147.51 | 16.24 | Large benthic foraminifer | *Operculina* | ISN | -4.62 | ±1.86 | 27738 | ±107 | **31,205** | ± 185 |   |   |   |   | 0.54 | 2 |   |
| 325-M0041A-11R-1W 105-110 | YAUT-000332 | AORI | 149.92 | 18.65 | Large benthic foraminifer | *Operculina* | ISN | -1.59 | ±2.00 | 31212 | ±132 | **34,725** | ± 325 |  |  |  |  | 0.17 |  |  |
| 325-M0041A-12R-1W 114-119 | YAUT-000337 | AORI | 151.51 | 20.24 | Large benthic foraminifer | *Operculina* | ISN | 1.26 | ±4.01 | 33751 | ±171 | **37,600** | ± 750 |   |   |   |   | 0.84 | 1 |   |
| \* Radiometric ages previously published in [1] Webster et al. (2011) & [2] from Hinestrosa et al. (2016), updated |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ANU = Australian National University |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AORI = Atmosphere and Ocean Research Institute, the University of Tokyo |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WHO = Woods Hole Oceanographic Institution |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OX = Department of Earth Sciences, University of Oxford |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |