**Humblet *et. al*, Supplementary Table 2**

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| IODP Sample ID | Lab code | Corrected Depth Below Sea Level, mbsl (m) | Dated Lithology | Species/lithology info | Context info | Calibrated 14C age (Cal yr BP) | ±2s | U-Th age(yr BP) | ±2s | IP | Depth of IF below Sea Level, mbsl (m) | Age of IP(yr BP) | ±2s | VA segments | VA rates(m/kyr) |  |  | 40A |  | 41A |  | 40A |  | 41A |  |  |
| 325-M0040A-02R-1W 16-17 | SANU-14227 | 132.835 | Coral | *Heteropsammia cochlea* | IS? | **9,700** | ± 160 |   |   | 9 | 132.835 | 9,700 | ± 160 |  |  |  | IP | Depth | Age | IP | Depth | Age |  | VA rate | Age |  | VA rate | Age |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S89 | 0.177 |  | 9 | 132.835 | 9,700 | 7 | 133.19 | 11,575 |  | 0.177 | 9,700 |  | 0.500 | 11,575 |  |  |
| 325-M0040A-03R-1W 0-3 | YAUT-005424 | 134.185 | Coralline algae | aA4 | IS? | **17,310** | ± 220 |   |   | 8 | 134.185 | 17,347 | ± 218 |  |  |  | 8 | 134.185 | 17,347 | 6 | 134.585 | 14,362 |  | 0.177 | 17,347 |  | 0.500 | 14,362 |  |  |
| 325-M0040A-03R-1W 0-3B | YAUT-005433 | 134.185 | Coralline algae | aA4 | IS? | **17,385** | ± 215 |   |   |   |   |   |  |  |  | 7 | 139.725 | 18,421 | 5 | 134.98 | 16,125 |  | 5.158 | 17,347 |  | 0.224 | 14,362 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S78 | 5.158 |  | 6 | 140.968 | 19,900 | 4 | 141.39 | 18,450 |  | 5.158 | 18,421 |  | 0.224 | 16,125 |  |  |
| 325-M0040A-06R-1W 35-39 | Sample ID: 7107 | 139.54 | Coral | *Porites* | IS |  |   | **18381** | 89 | 7 | 139.725 | 18,421 | ± 63 |  |  |  | 5 | 142.548 | 24,095 | 3 | 143.053 | 20,275 |  | 0.840 | 18,421 |  | 2.757 | 16,125 |  |  |
| 325-M0040A-06R-1W 72-76 | Sample ID: 7112 | 139.91 | Coral | *Porites*? | IS |  |   | **18461** | 36 |   |   |   |  |  |  | 4 | 143.575 | 24,600 | 2 | 147.51 | 31,205 |  | 0.840 | 19,900 |  | 2.757 | 18,450 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S67 | 0.840 |  | 3 | 143.92 | 27,205 | 1 | 151.51 | 37,600 |  | 0.377 | 19,900 |  | 0.911 | 18,450 |  |  |
| 325-M0040A-7R-1W 21.5-24 | YAUT-060016 | 140.8975 | Calcareous tube | - | IS | **19,595** | ± 175 |   |   | 6 | 140.968 | 19,900 | ± 185 |  |  |  | 2 | 145.37 | 29,550 |  |  |  |  | 0.377 | 24,095 |  | 0.911 | 20,275 |  |  |
| 325-M0040A-7R-1W 36-37.5 | YAUT-060017 | 141.0375 | Calcareous tube | - | IS | **20,205** | ± 195 |   |   |   |   |   |  |  |  | 1 | 149.67 | 38,600 |  |  |  |  | 2.033 | 24,095 |  | 0.408 | 20,275 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S56 | 0.377 |  |  |  |  |  |  |  |  | 2.033 | 24,600 |  | 0.408 | 31,205 |  |  |
| 325-M0040A-08R-1W 35-38 | YAUT-003224 | 142.535 | Coral | *Pachyseris speciosa* | IS | **24,350** | ± 500 |   |   | 5 | 142.548 | 24,095 | ± 370 |  |  |  |  |  |  |  |  |  |  | 0.132 | 24,600 |  | 0.625 | 31,205 |  |  |
| 325-M0040A-08R-1W 38-40 | YAUT-008923 | 142.56 | Coral  | *Pachyseris speciosa* | IS | **23,840** | ± 240 |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  | 0.132 | 27,205 |  | 0.625 | 37,600 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S45 | 2.033 |  |  |  |  |  |  |  |  | 0.619 | 27,205 |  |  |  |  |  |
| 325-M0040A-08R-2W 5-8 |   | 143.575 | Coral | *Porites* | IS |  |   | **24600** | 200 | 4 | 143.575 | 24,600 | ± 200 |  |  |  |  |  |  |  |  |  |  | 0.619 | 29,550 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S34 | 0.132 |  |  |  |  |  |  |  |  | 0.475 | 29,550 |  |  |  |  |  |
| 325-M0040A-09R-1W 23-25 | YAUT-005426 | 143.91 | Coralline algae | NA | ISX | **27,360** | ± 240 |   |   | 3 | 143.920 | 27,205 | ± 271 |  |  |  |  |  |  |  |  |  |  | 0.475 | 38,600 |  |  |  |  |  |
| 325-M0040A-09R-1W 23-25B | YAUT-005432 | 143.91 | Coralline algae | NA | ISX | **26,725** | ± 375 |   |   |   |   |   |  |  |  |

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| 325-M0040A-09R-1W 23-25b | YAUT-006323 | 143.91 | Coralline algae | NA | ISX | **26,275** | ± 275 |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0040A-09R-1W 25-27 | MTC-15123 | 143.93 | Bioclast | - | ISX | **27,625** | ± 245 |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S23 | 0.619 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0040A-10R-1W 20-25 | YAUT-000306 | 145.37 | Large benthic foraminifer | *Operculina* | ISN | **29,550** | ± 350 |   |   | 2 | 145.370 | 29,550 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S12 | 0.475 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0040A-12R-1W 0-5 | YAUT-005036 | 149.67 | Large benthic foraminifer | *Operculina* | ISN | **38,600** | ± 450 |   |   | 1 | 149.670 | 38,600 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 325-M0041A-01R-2W 140-142 | MTC-15125 | 133.19 | Coral | - | ISX | **11,575** | ± 325 |   |   | 7 | 133.190 | 11,575 | ± 325 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S67 | 0.500 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-02R-1W 28-29 | MTC-15126 | 134.555 | Coral? | - | ISX | **14,375** | ± 375 |   |   | 6 | 134.585 | 14,362 | ± 363 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-02R-1W 34-35 | MTC-15127 | 134.615 | Coral | Acroporidae | ISX | **14,350** | ± 350 |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 325-M0041A-02R-1W 70-72 | SANU-27039 | 134.98 | Coral | Siderastreidae | IS? | **16,125** | ± 185 |   |   | 5 | 134.980 | 16,125 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S45 | 2.757 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-06R-1W 20-24 | YAUT-003220 | 141.39 | Coral | *Leptoseris* | IS | **18,450** | ± 450 |   |   | 4 | 141.390 | 18,450 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S34 | 0.911 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-07R-1W 31-33 | YAUT-003231 | 142.99 | Coral | *Favites* gr. *abdita* | ISX | **19,675** | ± 375 |   |   | 3 | 143.053 | 20,275 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-07R-CCW 7-8 | MTC-15103 | 143.115 | Coral | *Porites*/*Montipora* | ISX | **20,875** | ± 375 |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S23 | 0.408 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-10R-1W 14-19 | YAUT-000319 | 147.51 | Large benthic foraminifer | *Operculina* | ISN | **31,205** | ± 185 |   |   | 2 | 147.510 | 31,205 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | S12 | 0.625 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 325-M0041A-12R-1W 114-119 | YAUT-000337 | 151.51 | Large benthic foraminifer | *Operculina* | ISN | **37,600** | ± 750 |   |   | 1 | 151.510 | 37,600 |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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