## SUPPLEMENTARY INFORMATION

## Ups and downs in western Crete (Hellenic subduction zone)

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Table S1 - Literature datings available for samples nearby Paleochora or otherwise discussed in the text.

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Figure S2 - XRD graphs for each analyzed sample (7 panels).

Figure S3 – Shoreline elevation and age of the associated samples, along with uncertainties, compared with the eustatic curve by Waelbroeck et al. (2002). We-36Cl and We-14C: Wegmann (2008); Sh-14C: Shaw et al. (2008); Ke-14C: Kelletat and Zimmerman (1991).

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Table S1 - Literature datings available for samples nearby Paleochora or otherwise discussed in the text.

| Lab Code  | Method  | Locality  | Sample<br>description   | Sample<br>elevation<br>(m a.s.l.)  | Shoreline<br>elevation<br>(m a.s.l.) | d13C                       | Age<br>(ky BP)  | Error<br>(±ky)               | Reference  | Notes   | 2σ Calibrated<br>Age range<br>(cal yr BP) |
|---|---|---|---|------------------------------------|--------------------------------------|----------------------------|---|------------------------------|--|---|---|
| HV9506  | Radiocarbon   | 2,5 km west of<br>Paleochora  | Algal rim   | 3.3                                | 3.3                                  | n.d.                       | 3.615   | 0.105                        | Kelletat and<br>Zimmermann,<br>1991                | Not enough<br>information to<br>calibrate                           | n.d.                                      |
| HV9507  | Radiocarbon   | 2,5 km west of<br>Paleochora  | Algal rim   | 3.3                                | 3.3                                  | n.d.                       | 5.735   | 0.090                        | Kelletat and<br>Zimmermann,<br>1991                | Not enough<br>information to<br>calibrate                           | n.d.                                      |
| K 2723  | ESR   | Paleochora  | Cladocora<br>caespitosa   | 2-2.5                              | n.d.                                 | n.a.                       | 113.000   | 27                           | Kelletat et al.,<br>1999                           |   | n.a                                       |
| K 2724  | ESR   | Paleochora  | Ostrea sp.  | 2-2.5                              | n.d.                                 | n.a.                       | 114.000   | 13                           | Kelletat et al.,<br>1999                           |   | n.a.                                      |
| AA61340   | Radiocarbon   | 2 km west of Paleochora   | Bivalve   | n.d.                               | 9                                    | 1.76                       | 40.600  | 1.300                        | Wegmann, 2008                                      |   | 42190-45870                               |
| UCI29784  | Radiocarbon   | 2 km west of Paleochora   | Bivalve   | n.d.                               | 9                                    | 2.6                        | 37.530  | 0.660                        | Wegmann, 2008                                      |   | 40930-42910                               |
| UCI27790  | Radiocarbon   | 2 km west of Paleochora   | Bivalve   | n.d.                               | 9                                    | 1.8                        | 23.510  | 0.080                        | Wegmann, 2008                                      | Alteration of primary shell is reported                             | 27080-27120;<br>27562-28460*              |
| 050906-8  | <sup>36</sup> Cl  | 2 km west of Paleochora   | Limestone   | 9                                  | 9                                    | n.a.                       | 8.810   | 0.350                        | Wegmann, 2008                                      | Latitudinal production<br>coefficient: 0.87;<br>shielding 0.48      | n.a.                                      |
| 050906-5  | <sup>36</sup> CI  | 2 km west of Paleochora   | Limestone   | 15                                 | 15                                   | n.a.                       | 13.430  | 2.550                        | Wegmann, 2008                                      | coefficient: 0.87;<br>shielding 0.49                                | n.a.                                      |
| 050906-6  | <sup>36</sup> Cl  | 2 km west of Paleochora   | Limestone   | 31                                 | 31                                   | n.a.                       | 19.230  | 0.590                        | Wegmann, 2008                                      | Latitudinal production<br>coefficient: 0.87;<br>shielding 0.48      | n.a.                                      |
| 050906-7  | <sup>36</sup> CI  | 2 km west of Paleochora   | Limestone   | 71                                 | 71                                   | n.a.                       | 50.170  | 1.660                        | Wegmann, 2008                                      | coefficient: 0.87;<br>shielding 0.50                                | n.a.                                      |
| OX16995   | Radiocarbon   | Paleochora  | Bivalve   | 20-24                              | 20-24                                | n.d.                       | 47.300  | 0.550                        | Shaw et al., 2008                                  | Out of calibration<br>range for Calib 6.0<br>(Reimer et al., 2009). | n.d.                                      |
| MC2427  | Radiocarbon   | Phalasarna  | <i>Dendropoma</i><br><i>petraeum</i> and<br>calcareous<br>algae | n.d.                               | 4                                    | n.d.                       | 4.600 <sup>†</sup>  | 0.09                         | Pirazzoli et al.,<br>1996                          | (   | 4410-5070                                 |
| Note: n.d. = r<br>(Pirazzoli et a<br>Analvtic for o | not determined.<br>al., 1982); conve<br>ur Holocene sam | n.a. = not applicable. *There<br>ntional radiocarbon age of 4.6<br>oples. | are multiple calit<br>500 ky is reported                        | oration peaks;<br>I by Pirazzoli e | the range pre<br>et al. (1996) as    | sented is t<br>s normalize | the full range of the full ra | of all calibra<br>f -25‰ PDE | ation peaks. †Originall<br>3: the correction of 40 | y measured radiocarbon<br>0 y is consistent with that               | age = 4.200 ky BP<br>calculated by Beta   |

Table S2 - Description of observed shorelines. Main shorelines indicators observed in the stretch of coast between Paleochora and Cape Krios, in sites where at least one dating exists.

| Shoreline | Locality     | Description   | Elevation<br>range of<br>observed<br>features<br>(m a.s.l.) | Dated samples         | Possible correlations<br>with literature data<br>based on age ranges   | Sea-level proxy elevation<br>(m a.s.l.) |
|-----------|--------------|---|---|-----------------------|--|---|
| S1        | West Kalamia | Two-m-high notch (surf notch), at 10 m elevation, partially filled with remnants of cemented conglomerate. The relative surf bench is overlain by a succession of (from bottom up): round pebbles gravel, a layer rich in bivalves, sandstones, breccia. At 8 m a notch (height: 1.15 m, depth: 0.64 m) with lithophagid holes. Below, several other less-evident shorelines characterized by notches and/or algae rims and lithophagid holes. These features can be followed continuously for several tens of meters in the same site. | 4-12  | WKB1A, WKB1B,<br>WKB4 | Shoreline II or III<br>(Pirazzoli et al., 1996)<br>for S1-high (at 8.34 m);<br>shoreline IV' (Pirazzoli et<br>al., 1996) for S1-low (at<br>4m) | 8.34                                    |
| S1        | East Kalamia | Wide abrasion platform overlain by a conglomerate deposit and a segment of a notch. Another shoreline is visible almost 3 m beneath the notch.  | 5-10  | -                     |  | 8.41                                    |
| S1        | Krios        | A well preserved algal rim with vermetids and associated lithophagid holes with bivalves in living position. Below, traces of marine corrosion. These features can be followed for hundreds of meters.  | 8-9   | -                     |  | 8.94                                    |
| S1        | Pachia Ammos | About 2-m-thick deposit of alternating gravel with round pebbles and sandstones characterized by ripple marks. Thickness of each layer varies from few centimeters to few decimeters. The top of the exposure consists of a high-energy gravel layer (bigger clasts). In one of the layer clasts consist of bivalve shells.   | 8.8-11.82   | WPAB41                | Shoreline IV (Pirazzoli et<br>al., 1996)   |   |
| S1        | Paleochora   | Notch carved in a pre-existing algal reef, with associated algal rim and vermetids. Also lithophagid holes and sessile bivalves can be found. Maybe displaced.  | 8-11  | -                     |  | 10.9                                    |
| S2        | West Kalamia | A 3-m-high notch with a polished surface and traces of karst processes.   | 11.76-15  | -                     |  | 13.10                                   |
| S2        | East Kalamia | A band of lithophagid holes on a subvertical wall with bivalves in living position and a notch carved in limestone.   | 11-14   | EKB23                 |  | 13.92                                   |
| S2        | Krios        | A cave on a limestone cliff with lithophagid holes with bivalves in living position.  | 10.57-13.27   | -                     |  | 11.77 or 13.27                          |
| S3        | West Kalamia | A deep (1.20 m) notch cut in limestone well preserved in a cave and also in the outside walls. Litophagid holes associated with remnants of cemented conglomerate with round pebbles partially filling the notch.   | 15.70-18  | -                     |  | 16.50                                   |
| S3        | East Kalamia | A band of lithophagid holes on a subvertical wall and a notch carved in limestone, inside and outside a couple of caves. Below the main shoreline several more minor notches can be found.  | 13.5-17   | -                     |  | 16.4 or 16.99                           |
| S3        | Krios        | A 7-m-thick deposit, generally consisting of a fining-upward succession. The upper part is characterized by (from bottom up): 0.5-0.7 m of conglomerate with round pebbles, 0.1 to 0.3 m of breccias, occasionally coarse sandstones and, finally, up to 1 m of layered sandstones. When exposed, substratum shows lithophagid holes with bivalves in living position, maybe belonging to S2.   | 11.70-18.88   | KB26A                 |  | 16.5                                    |

| S4 | West Kalamia | Fragments of a notch carved in limestone, quite eroded and with polished surface. The largest and best preserved segment of the notch is visible on both sides of a sea arch for a total length of a few meters. The notch is 3 m high and is partly or totally filled by a cemented conglomerate with round pebbles from few centimeters to few decimeters in size. The same conglomerate is sparsely exposed below the notch down to an elevation of ~32 m. Conglomerates are overlain by sandstones and fine breccias with arenaceous matrix. Rare shell fragments of bivalves are found in the conglomerate cement.  | 32-38   | WKB8, WKB10          | 34.15 |
|----|--------------|--|---------|----------------------|-------|
| S4 | Paleochora   | A 200-m-wide platform gently seaward dipping (2°). The platform tread is characterized by a reef mainly constituted by algae, including several other organisms such as bivalves. Shell layers are common. The 1.60-m-thick algae reef overlays a cemented conglomerate with round pebbles that can reach tens of centimeters in diameter.   | 24-28.4 | CA42, CA43           | 34.15 |
| S5 | West Kalamia | Series of aligned caves and segments of a notch, all carved in limestone. Depth<br>and height of the largest caves are ~ 1-2 m. The longest segment of the notch<br>is ~5 m. The height of the notch is 1.50-2 m. Karst concretions are present on<br>the notch and cave surfaces. Lithophagid holes cover the entire height of the<br>notch and the caves up to ~58 m of elevation. Sandstones with fine breccia<br>intercalations are found at an elevation ranging between the base of the notch<br>(~54 m) and ~50 m and overlay fossiliferous conglomerates characterized by<br>round pebbles with diameters ranging from few cm to tens of cm. The top of the<br>conglomerates dips towards the sea. The cliff between 50 and 52 m shows<br>bioerosion features typical of the sublittoral zone. | 45-58   | WKB5, WKB6,<br>WKB13 | 54.57 |
| S6 | West Kalamia | A cave and remnants of a few-meters-long notch, both carved in limestone. The notch has a height of about 1 m and is completely filled with conglomerates characterized by round pebbles with an average diameter of about 5 cm. Because of the filling, the position of the notch retreat zone cannot be measured, but it seems to coincide with the top of the conglomerates and to the maximum convexity of the cave. No fossils found.   | 73-77   | -                    | 74.84 |

## Table S3 – Dated samples

| Sample<br>Code           | Lab code                 | Locality                                | Sample description   | Sample<br>elevation<br>(m a.s.l.) | Error<br>(± m) | Associated shoreline | Shoreline<br>elevation<br>(m a.s.l.) | XRD                     | d13C      | Conventional<br>Radiocarbon<br>Age<br>(y BP) | 2o<br>Calibrated<br>Age range<br>(y BP) | 2σ<br>Calibrated<br>Age range<br>(y AD/BC) |
|--------------------------|--------------------------|---|--|-----------------------------------|----------------|----------------------|--------------------------------------|-------------------------|-----------|--|---|--|
| WKB1B                    | Beta-<br>232642          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Vermetids cemented<br>on the shell fragment<br>WKB1A  | 5.93                              | 0.1            | S1                   | S1-high;<br>8.34<br>S1-low; ~4       | N.D.                    | -0.5      | 2190±0.040                                   | 1519-1933                               | 17-431AD                                   |
| WKB1A                    | Beta-<br>232641          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Spondylus sp.<br>fragment found in a coarse<br>sand conglomerate deposit.                         | 5.93                              | 0.1            | S1                   | S1-high;<br>8.34<br>S1-low; ~4       | Arg+Cal+Qz              | -0.9      | 2260±0.040                                   | 1591-2029                               | 80BC-359AD                                 |
| WPAB41                   | Poz-<br>26565            | Pachia Ammos<br>(35.2349N,<br>23.676E)  | Shell. Bivalve shell found in a conglomerate deposit.  | 10.31                             | 1.51           | S1                   | S1-high;<br>8.34<br>S1-low; ~4       | N.D.                    | -8.4      | 2348±0.033                                   | 1707-2125                               | 176BC-243AD                                |
| WKB4                     | Beta-<br>232643          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Lithophaga sp. shell found in living position.  | 8.00                              | 0.1            | S1                   | S1-high;<br>8.34<br>S1-low; ~4       | N.D.                    | 2.5       | 2710±0.040                                   | 2142-2652                               | 703-193BC                                  |
| KB26A                    | Poz-<br>26558            | Krios<br>(35.2372N,<br>23.5941E)        | Shell. Bivalve shell found in sandstones near the top of a beach deposit.                                | 16.00                             | 1              | S3                   | 16.5                                 | Arg+Cal<5%              | 1.6       | 5162±0.039                                   | 5286-5639*                              | 3690-3337BC                                |
| EKB23                    | Beta-<br>232640          | East Kalamia<br>(35.2382N,<br>23.6683E) | Shell. Lithophaga sp.shell<br>found in living position near<br>the top of a band of<br>lithophaga holes. | 13.50                             | 0.4            | S2                   | 14                                   | N.D.                    | -7.6      | 18400±0.080                                  | 21040-21880                             | N.D.                                       |
| WKB5                     | Beta-<br>232644          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Bivalve fragment<br>found in the matrix of a<br>polygenic conglomerate<br>deposit.                | 48.83                             | 0.7            | S5                   | 55                                   | Arg                     | -3.1      | 19480±0.090                                  | 22320-23030;<br>23070-23290*            | N.D.                                       |
| WKB13                    | Beta-<br>234184          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Bivalve fragment<br>found in a conglomerate<br>deposit.   | 48.83                             | 0.7            | S5                   | 55                                   | N.D.                    | 0.1       | 26930±0.160                                  | 30810-31300                             | N.D.                                       |
| CA43                     | Poz-<br>26557            | Paleochora<br>(35.2272N,<br>23.6792E)   | Shell. Bivalve fragment found cemented at the top of an algae reef.                                      | 26.55                             | 1.85           | S4                   | 34                                   | N.D.                    | -8.9      | 36993±0.642                                  | 40340-42530                             | N.D.                                       |
| WKB10                    | Beta-<br>232647          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Bivalve fragment<br>found in the sandy matrix of<br>a gravel layer partially filling<br>a notch.  | 33.38                             | 0.1            | S4                   | 34                                   | Arg and<br>Arg+Cal<5%†  | -1.5      | 37530±0.330                                  | 41380-42450                             | N.D.                                       |
| WKB8                     | Beta-<br>232646          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell (Glycymeris sp.).  | 33.03                             | 0.1            | S4                   | 34                                   | Arg+Cal<5%              | 0.2       | 38250±0.350                                  | 41840-42950                             | N.D.                                       |
| WKB6                     | Beta-<br>232645          | West Kalamia<br>(35.2381N,<br>23.6670E) | Shell. Bivalve fragment<br>found loose in the ground<br>near the basis of a<br>conglomerate deposit.     | 48.14                             | 0.1            | S5                   | 55                                   | Arg                     | -0.5      | 39190±0.380                                  | 42370-43770                             | N.D.                                       |
| CA42                     | Poz-<br>26556            | Paleochora<br>(35.2272N,<br>23.6792E)   | Shell. Bivalve found at -1.50 m from top of an algae reef.   | 25.05                             | 1.85           | S4                   | 34                                   | N.D.                    | -3.5      | 42402±1.102                                  | 43490-47430                             | N.D.                                       |
| Notes: Re<br>calibration | esults are rou<br>peaks. | inded to the neare                      | st 10 y for samples with standa  | d deviation                       | in the rac     | diocarbon age        | greater than 5                       | 0 y. †Four fragments: 1 | ) Arg; 2) | and 3) Arg+Cal;                              | 4) no XRD; *Full                        | range of multiple                          |

Table S4 –  $\Delta R$  values in the Mediterranean Sea. Values used to calculate the average  $\Delta R$  for the entire basin (Marine Reservoir Correction Database, http://calib.qub.ac.uk/marine/).

| MapNo         | Lat  | Lon           | ΔR                      | σ     |  |  |  |  |  |
|---------------|--|---------------|-------------------------|-------|--|--|--|--|--|
| 234           | 40.83  | 18.33         | 121                     | 60    |  |  |  |  |  |
| 238           | 42.5   | 17            | 61                      | 30    |  |  |  |  |  |
| 223           | 40.92  | 14.08         | 59                      | 40    |  |  |  |  |  |
| 224           | 40.92  | 14.08         | 147                     | 110   |  |  |  |  |  |
| 225           | 38   | 14            | 71                      | 50    |  |  |  |  |  |
| 236           | 43.83  | 15.5          | -95                     | 35    |  |  |  |  |  |
| 230           | 37.75  | 20.75         | 158                     | 40    |  |  |  |  |  |
| 220           | 42   | 12            | -18                     | 60    |  |  |  |  |  |
| 221           | 42   | 12            | 31                      | 60    |  |  |  |  |  |
| 235           | 44.07  | 12.57         | 139                     | 28    |  |  |  |  |  |
| 237           | 45   | 13.5          | -61                     | 50    |  |  |  |  |  |
| 242           | 37.95  | 22.63         | 148                     | 40    |  |  |  |  |  |
| 241           | 37.57  | 22.8          | 40                      | 40    |  |  |  |  |  |
| 222           | 42.67  | 8.67          | 46                      | 40    |  |  |  |  |  |
| 245           | 40.5   | 26            | 151                     | 40    |  |  |  |  |  |
| 205           | 43.55  | 7             | -25                     | 40    |  |  |  |  |  |
| 206           | 43.5   | 6.67          | -7                      | 35    |  |  |  |  |  |
| 215           | 43.17  | 5.98          | -85                     | 35    |  |  |  |  |  |
| 207           | 43.17  | 5.92          | 7                       | 40    |  |  |  |  |  |
| 243           | 40.5   | 28.58         | 71                      | 40    |  |  |  |  |  |
| 208           | 43.33  | 3.5           | 34                      | 35    |  |  |  |  |  |
| 209           | 43.33  | 3.5           | 74                      | 40    |  |  |  |  |  |
| 210           | 42.5   | 3             | 121                     | 35    |  |  |  |  |  |
| 216           | 42.5   | 3             | 111                     | 55    |  |  |  |  |  |
| 201           | 36.75  | 3             | 148                     | 35    |  |  |  |  |  |
| 218           | 36.8   | 2.92          | 165                     | 40    |  |  |  |  |  |
| 219           | 36.8   | 2.92          | 55                      | 40    |  |  |  |  |  |
| 204           | 36.58  | 2.5           | 33                      | 50    |  |  |  |  |  |
| 203           | 36.53  | 1.92          | 11                      | 35    |  |  |  |  |  |
| 1494          | 32.6432  | 34.9227       | -20                     | 50    |  |  |  |  |  |
| 1491          | 32.6432  | 34.9227       | 75                      | 50    |  |  |  |  |  |
| 1493          | 32.8431  | 35.0138       | -115                    | 50    |  |  |  |  |  |
| 1495          | 32.3384  | 34.8482       | 47                      | 40    |  |  |  |  |  |
| 1492          | 32.3384  | 34.8482       | -70                     | 50    |  |  |  |  |  |
| 231           | 33.87  | 35.5          | 37                      | 40    |  |  |  |  |  |
| 232           | 33.87  | 35.5          | -52                     | 50    |  |  |  |  |  |
| 217           | 36.75  | -4.42         | -22                     | 35    |  |  |  |  |  |
| Notes: numb   | per of points: 37  | ; weighted me | an $\Delta R$ : 46; sta | ndard |  |  |  |  |  |
| deviation (so | deviation (square root of variance): 77; average uncertainty: 7. |               |                         |       |  |  |  |  |  |



Figure S1 - Calibration curves of each calibrated sample (17 panels).





















Radiocarbon Age vs. Calibrated Age









Figure S2 - XRD graphs for each analyzed sample (7 panels).





Note: WKB1A is a Spondylus sp., hence the outer part of the shell is expected to be made of calcite.













Figure S3 – Shoreline elevation and age of the associated samples, along with uncertainties, compared with the eustatic curve by Waelbroeck et al. (2002). We-36Cl and We-14C: Wegmann (2008); Sh-14C: Shaw et al. (2008); Ke-14C: Kelletat and Zimmerman (1991).



Table S5 – Two-layer model.

| Depth<br>(km) | Density<br>(kg/m³) | Vp (m/s) | Vs (m/s) | Viscosity<br>(Pa s) | Relaxation |
|---------------|--------------------|----------|----------|---------------------|------------|
| 0             | 2880               | 6.437    | 3.164    | œ                   | 1          |
| 33            | 3310               | 7.900    | 3.310    | 10 <sup>19</sup>    | 0.001      |

Table S6- Profile geographic coordinates.

| LatSW | Lon SW | LatNE | LonNE | Lat<br>Paleochora | Lon<br>Paleochora |
|-------|--------|-------|-------|-------------------|-------------------|
| 32.47 | 20.88  | 36.54 | 25.03 | 35.24             | 23.71             |

Table S7 – Fault parameters.

| Fault                          | Lat*     | Lon*       | Depth<br>to top<br>(km) | Depth<br>to<br>bottom<br>(km) | Strike<br>(deg) | Dip<br>(deg) | Rake<br>(deg) | Length<br>(km) | Width<br>(km) | Slip<br>(m) |
|--------------------------------|----------|------------|-------------------------|-------------------------------|-----------------|--------------|---------------|----------------|---------------|-------------|
| A1: Front-section<br>Interface | 34.61    | 23.06      | 14                      | 20                            | 310             | 4            | 90            | 160            | 80            | 3.5         |
| A2: Front-section<br>Splay     | 34.61    | 23.07      | 4                       | 20                            | 310             | 12           | 90            | 160            | 80            | 3.5         |
| B1: Rear-section<br>Interface  | 35.16    | 23.62      | 20                      | 41                            | 310             | 15           | 90            | 160            | 80            | 3.5         |
| B2: Rear-section<br>Splay      | 35.08    | 23.53      | 5                       | 35                            | 310             | 22           | 90            | 160            | 80            | 3.5         |
| * Geographic coo               | rdinates | s refer to | fault mic               | l-upper ed                    | ge interse      | ection wi    | th profile    | e in Figure    | 1.            |             |

Figure S4 – Coseismic and steady-state displacement profiles for faults in the front section of subduction zone causing subsidence in Paleochora (2 panels).



Figure S5 – Coseismic and steady-state displacement profiles for faults in the rear section of subduction zone causing uplift in Paleochora (2 panels).

