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**Pliocene-Pleistocene sedimentary development of the syntectonic Polis graben, NW Cyprus: evidence from facies analysis, nannofossil biochronology and strontium isotope dating**

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Supplementary material

**Supplementary Table S1 -** Samples used for Strontium isotope dating and nannofossil biochronology

|  |  |  |
| --- | --- | --- |
| *Sample code*  | *Grid reference* | *Location* |
| PL01 | N 34° 54'41", E32°27'35" | 450m E of Theletra |
| PL02  | N 35° 01'51", E32°26'22" | 1km E of Polis |
| PL03 | N 35° 01'28", E32°27'56" | 750m SW of Pelathousa |
| PL05 | N 35° 01'22", E32°27'54" | 750m SW of Pelathousa |
| PL09 | N 34° 59'34", E32°28'38" | 250m SE of Steni |
| PL10 | N 34° 58'27", E32°28'09" | Evretou Dam |
| PL11 | N 34° 58'26", E32°28'09" | Evretou Dam |
| PL12 | N 34° 57'30", E32°28'39" | 500m SW of Evertou |
| PL15  | N 34° 58'35", E32°27'41" | 1km SE of Skoylli |
| PL17 | N 34° 59'07", E32°27'53" | 1km E of Skoylli |
| PL18 | N 34° 59'06", E32°27'39" | 800m E of Skoylli |
| PL19 | N 34° 59'15", E32°27'14" | 600m NE of Skoylli |
| PL20  | N 34° 55'39", E32°28'03" | 500m W of Giolou |
| PL21 | N 34° 53'48", E32°31'01" | 1.25km NE of Polemi |
| PL22 | N 34° 52'05", E32°30'13" | 1.5km SW of Polemi |
| PL24 | N 35° 00'06", E32°25'40" | 750m W of Chrysochou |
| PL25 | N 34° 59'52", E32°26'08" | 750m SW of Chrysochou |
| PL27 | N 35° 00'10", E32°25'23" | 1.5km W of Chrysochou |
| PL31 | N 34° 59'11", E32°26'21" | 600m SW of Goudi |
| PL35 | N 34° 58'49", E32°26'55" | 125m SW of Skoylli |
| PL42  | N 35°00 '46", E32°26'27" | 1km N of Chrysochou |
| PL46 | N 35°00 '48", E32°26'10" | 1km NNW of Chrysochou |
| PL51 | N 35°01 '28", E32°26'13" | 1.5km SE of Polis |
| PL58 | N 35°02 '23", E32°27'50" | 1.5km NW of Pelathousa |
| PL59 | N 35°02 '17", E32°27'23" | 2km NW of Pelathousa |
| PL60 | N 34°59 '48", E32°28'26" | 250m SE of Steni |
| PL61 | N 34°58 '27", E32°28'14" | Evretou dam |
| PL65 | N 34°58 '05", E32°26'30" | 1.5km SW of Skoylli |
| PL66  | N 34°57 '55", E32°27'15" | 1.25km NE of Kato Akourdaleia |
| PL69 | N 34°56 '13", E32°28'02" | 500m SE of Miliou |
| PL70 | N 34°56 '40", E32°27'45" | 500m N of Miliou |
| PL72 | N 34°57 '00", E32°27'13" | 250m SE of Akourdaleia |
| PL74 | N 34°58 '18", E32°27'42" | 1.5km SE of Skoylli |
| PL78 | N 34°58 '37", E32°26'58" | 300m S of Skoylli |
| PL82 | N 34°58 '26", E32°27'01" | 750m S of Skoylli |
| PL84 | N 34°55 '36", E32°30'20" | 300m W of Drymou |
| PL89 | N 35°00 '19", E32°27'31" | 1.5km E of Chrysochou |
| PL96 | N 34°59 '39", E32°27'45" | 750m SW of Steni |

**Supplementary Table S2 –** Weight of samples used in strontium isotopic dating

|  |  |
| --- | --- |
| *Sample number* | *Sample weight (grams)* |
| PL02 | 0.00199 |
| PL03 | 0.00287 |
| PL05 | 0.00359 |
| PL09 | 0.00136 |
| PL11 | 0.00318 |
| PL12 | 0.00332 |
| PL15 | 0.00201 |
| PL17 | 0.00462 |
| PL18 | 0.00399 |
| PL21 | 0.00357 |
| PL35 | 0.00359 |
| PL46 | 0.00252 |
| PL65 | 0.00239 |
| PL66 | 0.00683 |
| PL70 | 0.01456 |
| PL74 | 0.00389 |
| PL78 | 0.00900 |
| PL84 | 0.00282 |
| PL89 | 0.00373 |
| PL96 | 0.00263 |

**87Sr/86Sr isotopic preparation and method**

The prepared and dried samples were loaded onto single rhenium filaments with a tantalum activator solution and analysed with VG Sector 54 Thermal Ionisation Mass Spectrometer. Data were collected in a three mass-jump multi-dynamic sequence. The NBS987 87Sr/86Sr standard gave 0.710268 ± 0.0000197 (2 S.D. n=48). The most recent Sr isotope Look-Up Table Version 4: 08/04 (Howarth & McArthur, 1997; McArthur, *et al.* 2001) was used to assign ages to the given 87Sr/86Sr ratios. The total (combined) error of the 87Sr/86Sr results was calculated for each sample, as reported elsewhere (Boulton *et al.* 2007). The combined error is a combination of the empirical instrumental and analytical error together with the error related to the strontium sea-level curve.