

UDINE RADIOCARBON LABORATORY DATE LIST II

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INTRODUCTION

This list includes the measurements carried out from 1977-1978. Procedures of synthesis of benzene, counting method, and performance figures of results were previously described (R, 1982, v 24, p 214-216; CRAD, 1977; Barbina, Calligaris, & Ciuti, 1979). Samples were pretreated according to generally applied methods, depending on type of material and particular archaeological and geologic features.

SAMPLE DESCRIPTIONS

CROSS-CHECK SAMPLES

The following samples were dated in order to check the reliability of laboratory procedures and measurements, by comparison with the results obtained on the same samples by other laboratories, and with archaeological dating.

UD-16. Mezzano II, 35 D **2900 ± 400**

Charcoal from Late Bronze age layers in Mezzano little crater lake in caldera of Latera, Vulsini Mts, volcanic region, Comm Valentano, prov Viterbo, Latium, Italy (46° 36' 30" N, 11° 46' 08" E). Subm 1976 by G Belluomini, Radiocarbon Dating Lab, Univ Rome. *Comment*: date perfectly agrees with results obtained in Rome, R-994B:2970 ± 60.

Sahara series

UD-17. **7630 ± 250**

Charcoal from Neolithic layers of Wadi Teshuinat, Acacus, Fezzan, Libya (25° 30' 14" N, 11° 45' 38" E). Subm 1977 by G Belluomini. *Comment*: date agrees with results obtained in Rome, R-1033:7900 ± 300.

UD-73. Deir el Medina—Luxor **3680 ± 110**

Fragment of cloth from tomb of Kha XVIII Dynasty, Deir el Medina, W side Thebe, Luxor, Egypt (25° 48' 24" N, 32° 28' 19" E). Subm 1977 by S Curto, Egyptian Mus, Torino, Italy. *Comment*: date agrees with archaeol estimated age: 3940 ± 20.

ARCHAEOLOGIC SAMPLES

Coal and ash samples

UD-1. Wadi el Bouzna **6500 ± 350**

Coal and ashes from clayey layers of Wadi el Bouzna, Fezzan, Libya (26° 24' 29" N, 14° 21' 15" E). Coll 1971 by A Del Fabbro (1970) and V Barbina (Reygasse, 1934). Banks of Wadi el Bouzna have yielded many flint implements, such as biconvex axes, broad cutters, and chisels. Lithic

industry typology suggests likeness between Gargano and Teneré stations and Wadi el Bouzna, whereas pottery typology shows remarkable differences from Campignian culture. *Comment*: ^{14}C date agrees with expected age range inferred by ^{14}C measurements of Teneré layers (Alimen, Beucher, & Conrad, 1966; Beucher, 1971).

Pozzuolo series

Charcoal from cremation tombs of Pozzuolo necropolis, Italy ($45^{\circ} 50' 18''$ N, $13^{\circ} 10' 39''$ E) (Candussio, 1980; Cassola, 1980). Graves were dug in silty-clayey soil, and dated by assoc archaeol material, such as pottery and bronze objects. ^{14}C dates agree with archaeol estimated age and TL pottery dating.

UD-57. Tombe No. 1 2250 \pm 100

Charcoal from cremation tomb No. 1 of Pozzuolo necropolis. Coll and subm 1977 by A Del Fabbro and A Candussio, Dept Antiquities, Udine, Italy.

UD-58. Tombe No. 2 2700 \pm 100

Charcoal from cremation tomb No. 2 of Pozzuolo necropolis. Coll and subm 1977 by A Del Fabbro and A Candussio.

Wood samples

UD-33. Tempietto Longobardo—Cividale del Friuli 340 \pm 30

Wood from beam found above plaster walls of Lombard chapel, "Tempietto Longobardo", Cividale del Friuli, Italy (Civiletti, 1960) ($46^{\circ} 05' 30''$ N, $13^{\circ} 25' 50''$ E) during restoration in 1977 after 1976 earthquake. Coll by A Del Fabbro and V Barbina and subm by G Del Basso, Municipality Cividale del Friuli. *Comment*: recent age of sample suggests restoration was undertaken ca AD 1520, due to 1511 earthquake.

GEOLOGIC SAMPLES

Wood samples

UD-41. Palazzo delle Albere-Trento 9800 \pm 200

Sample found during geognostic drillings in Palazzo delle Albere area, Trento, Italy ($46^{\circ} 12' 31''$ N, $11^{\circ} 07' 14''$ E) in gray-blue silt of Adige R at depth 10m. Sand and gravel layer, deposited by Fersina stream, overlies these sediments. Coll and subm 1977 by Tridentine Mus Nat Hist, Trento, Italy. *Comment*: ^{14}C dating allowed assessment of rate of alluviation of Adige valley, and period during which Fersina R sediments reached this area.

UD-42. Tovel Lake 610 \pm 60

Fragment from uprooted tree trunk at depth 15m in Tovel lake, Dolomiti di Brenta, Trento, Italy ($46^{\circ} 15' 30''$ N, $10^{\circ} 57' 12''$ E). Coll by Sub Club "Trento" and subm 1977 by G Tomasi, Tridentine Mus Nat Hist. *Comment*: ^{14}C age suggests lake level was lower than at present, correlated with cold climate of alpine region during that period.

Peat and mollusk shell samples

Results reported here are part of study of paleogeography of lagoon of Venice made by Ist Studio della Dinamica delle Grandi Masse CNR, Venice, Italy, as previously described (R, 1982, v 24, p 214-216; Gatto, 1980).

*Laguna di Venezia***Ca' Bianca series**

Peat from lagoon of Venice, Ca' Bianca (45° 23' 33" N, 12° 21' 18" E). Coll by P Da Roit, Lab Geol Appl CNR Padova, and subm by P Gatto, Ist Studio Dinamica Grandi Masse, CNR, Venice.

UD-10. **24,100 ± 1500**

Peat from drilling 8 at depth 28.1m.

Lido series

Peat and shells from lagoon of Venice, Lido (45° 23' 53" N, 12° 19' 03" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-43. **4820 ± 150**

Carbonate (mollusk shells) from drilling 11 at depth 10.3m.

UD-44. **21,800 ± 300**

Peat from drilling 11 at depth 22.55m.

S Andrea series

Carbonate from lagoon of Venice, S Andrea (45° 26' 01" N, 12° 22' 53" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-45. **5970 ± 100**

Carbonate (mollusk shells) from drilling 13 at depth 8.4m.

Cavallino Punta Sabbioni series

Peat from lagoon of Venice, Cavallino Punta Sabbioni (45° 25' 58" N, 12° 22' 10" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-54. **24,500 ± 1000**

Silty peat from drilling at depth 28.52m.

Sottomarina Lido series

Peat from lagoon of Venice, Sottomarina Lido (45° 15' 49" N, 12° 17' 38" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-60. **1800 ± 80**

Peat from drilling 1 at depth 8.8m.

Sottomarina series

Peat from lagoon of Venice, Sottomarina (45° 16' 34" N, 12° 18' 39" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-63. **10,630 ± 100**

Sandy peat from drilling 2 at depth 22.6m.

Cavallino Ca' Ballerin series

Peat and carbonate (mollusk shells) from lagoon of Venice, Cavallino Ca' Ballerin (45° 30' 18" N, 12° 25' 21" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-64. **4670 ± 150**

Peat from drilling at depth 12.75m.

UD-64. **20,500 ± 800**

Carbonate from drilling 18 at depth 16.55m.

Cavallino Ca' Pasquali series

Peat from lagoon of Venice, Cavallino Ca' Pasquali (45° 28' 21" N, 12° 33' 48" E). Coll 1974 by P Da Roit and subm by P Gatto.

UD-68. **5410 ± 70**

Peat from drilling 18 at depth 10.5m.

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