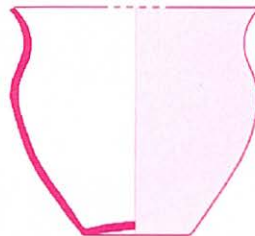




Koninklijk Instituut voor het Kunstpatrimonium

Institut Royal du Patrimoine Artistique

Mark Van Strydonck, Myriam Landrie, Mathieu Boudin, Piet M. Grootes,
Marie-J. Nadeau, Eddy Keppens



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This list contains the results of the ¹⁴C determinations obtained at the laboratory since the publication of our last list³. IRPA samples are prepared and measured by β -counting in the institute⁴, KIA samples are prepared in the institute⁵ and measured by AMS at the Leibniz Labor für Altersbestimmung und Isotopenforschung. Isotopic fractionation (by MS) and C:N ratios are measured at the Free University of Brussels. Dates are reported as conventional ¹⁴C ages⁶. Samples with a negative age are reported as PMC (Percent Modern Carbon).

Sample description is based on the information given by the submitter.

- 1 : Leibniz Labor für Altersbestimmung und Isotopenforschung,
Christian-Albrechts-Universität, Kiel, Germany
- 2 : Free University of Brussels, Belgium
- 3 : M. VAN STRYDONCK, M. LANDRIE, M. BOUDIN, P.M. GROOTES,
M.-J. NADEAU, R. SPARKS, E. KEPPENS. 2002. *Royal Institute for
Cultural Heritage Radiocarbon dates XVIII*. Brussels, 70.
- 4 : L. FOREST, M. VAN STRYDONCK. 1993. *The installation of a liquid
scintillator and the construction of a benzene synthesis unit at the
radiocarbon dating laboratory*. Bulletin KIK-IRPA 25: 235-245.
- 5 : M. VAN STRYDONCK, K VAN DER BORG. 1990/91. *The construction of a
preparation line for AMS-targets at the Royal Institute for Cultural Heritage,
Brussels*. Bulletin KIK-IRPA 23: 228-234.
- 6 : M. STUIVER, H.A. POLACH. 1977. Discussion: Reporting ¹⁴C data.
Radiocarbon 19(3): 355-363.

Cremated bones from this urn were dated KIK-2564/KIA-20058: 2595±25 BP

Royal Institute for Cultural Heritage

Radiocarbon dates XIX.

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KIK-IRPA radiocarbon dates XIX: 1 of 260.

Archaeology

Argentina

KIK- 2508 **Tierra del Fuego-1** **625 ± 25 BP**
KIA-19492 measured by AMS
 $\delta^{13}\text{C} = -10.73 \text{‰}$ measured by MS
 $\delta^{15}\text{N} = +18.59 \text{‰}$ C/N= 2.7

Provenance : Mischiwen III at Beagle Channel in the province or region of Tierra del Fuego.
Collected by Assumpció Vila in 2001 and submitted in 2002 by

Assumpció Vila
Department of Archaeology and Anthropology
Institutio Mila i Fontanals C.S.I.C.
Egipcíques, 15
08001 Barcelona
Spain

Sample material: bone (human).
Sample position: 15 cm below surface.
Associated culture, geological period or estimated age:
Recent indigenous (yamana) people.
Context: burial in a rock shelter.
Pre-treatment method: Longin.
Sample quality: good.

Comment: fragment of the femur of a young woman. Stable isotopes indicate probably a marien diet. The sample was obtained as part of an International Research Project for the development of Methodology and Theory in Prehistoric Archaeology.

References: A. Vila. 2004. Proyectos etnoarqueológicos en Tierra del Fuego (Argentina). Bienes Culturales, Madrid, 3: 193-200

Belgium

KIK- 2587 **Aalter-AIL-IV-259B1** **1965 ± 30 BP**
KIA-20081 measured by AMS
 $\delta^{13}\text{C} = -27.22 \text{‰}$ measured by AMS

Antonio Bravo-Nieto
Instituto de Cultura Mediterránea
Apartado de Correos 277
E-52080 Melilla
Spain

Sample material: bone.

Associated culture, geological period or estimated age:

Neolithicum.

Context: ditch.

Pre-treatment method: Longin.

Sample quality: medium.

Comment: collagen bone ratio = 5.54 %. The stable isotopes indicate that there might be a marine component in the diet.

KIK- 2186 **El Zafrín - n°2a**
KIA-17373

5600 ± 30 BP

measured by AMS

$\delta^{13}\text{C} = -22.93 \text{ ‰}$ measured by AMS

Provenance : El Zafrín at Isla Congreso in the province or region of Islas Chafarinas (35°10'00"N,02°26'00"W).

Collected by Antonio Bravo-Nieto in 2001 and submitted in 2002 by

Antonio Bravo-Nieto
Instituto de Cultura Mediterránea
Apartado de Correos 277
E-52080 Melilla
Spain

Sample material: charcoal.

Associated culture, geological period or estimated age:

Neolithicum.

Context: burial.

Pre-treatment method: AAA.

Sample quality: good.

Comment: Neolithic open-air settlement of hunters (Monachus monachus), fishermen and goat-herders.

KIK- 2964 **El Zafrín - UE604**
KIA-22284

5170 ± 30 BP

measured by AMS

$\delta^{13}\text{C} = -15.84 \text{ ‰}$ measured by AMS

C/N= 2.9

Provenance : El Zafrín at Islas Chafarinas in the province or region of North Africa (35°10'00"N,02°26'00"W).

Collected by Antonio Bravo-Nieto in 2003 and submitted in 2003 by

Antonio Bravo-Nieto
Instituto de Cultura Mediterránea
Apartado de Correos 277
E-52080 Melilla
Spain

Sample material: bone.

Associated culture, geological period or estimated age:
Neolithicum.

Context: .

Pre-treatment method: Longin.

Sample quality: medium.

Comment: collagen bone ratio = 2.50 %. The stable isotopes indicate that there might be a marine component in the diet.

KIK- 2979 El Zafrín - UE612

5495 ± 40 BP

KIA-22623

measured by AMS

$\delta^{13}\text{C} = -16.54 \text{ ‰}$ measured by AMS

C/N= 2.7

Provenance : El Zafrín at Islas Chafarinas in the province or region of North Africa (35°10'00"N,02°26'00"W).

Collected by Antonio Bravo-Nieto in 2003 and submitted in 2003 by

Antonio Bravo-Nieto
Instituto de Cultura Mediterránea
Apartado de Correos 277
E-52080 Melilla
Spain

Sample material: bone.

Associated culture, geological period or estimated age:
Neolithicum.

Context: Context with flint, pottery and bones.

Pre-treatment method: Longin.

Sample quality: medium.

Comment: collagen bone ratio = 3.10 %. The stable isotopes indicate that there might be a marine component in the diet.

KIK- 2511 Fuento Alamo FA-111

2955 ± 35 BP

KIA-19495

measured by AMS

$\delta^{13}\text{C} = -22.60 \text{ ‰}$ measured by MS

$\delta^{15}\text{N} = -30.36 \text{ ‰}$ C/N= 5.9

Provenance : Fuento Alamo at Cuevas del Almanzora in the province or region of Almería.

Collected by Hermanfrid Schubart in 1999 and submitted in 2002 by

Roberto Risch
Divisió de Prehistòria
Universitat Autònoma Barcelona
Bellaterra 08193 (Barcelona)
Spain