

Radiocarbon

1975

INSTITUT ROYAL DU PATRIMOINE ARTISTIQUE RADIOCARBON DATES V

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This list includes the results of measurements made during 1972-73.

SAMPLE DESCRIPTIONS

I. GEOLOGIC SAMPLES

IRPA-137. Vlissegem	3720 ± 150 1770 BC
Ground water from Vlissegem, W Flanders, Belgium (51° 14' 23" N, 3° 07' 03" E), at 20m depth. Coll 1973 by W De Breuck, Univ Ghent, Belgium.	
IRPA-138. Adinkerke	3480 ± 220 1530 BC
Ground water from Adinkerke, W Flanders, Belgium (51° 04' 25" N, 2° 33' 23" E), at 25m depth. Coll 1973 by W De Breuck.	
<i>General Comment:</i> CO ₂ extraction from water samples is described in R, v 15, p 304. Dates used to study ground water formation in W Flanders.	
Wortel series	
Five samples of peat from Wortel, prov Antwerp, Belgium (51° 23' 58" N, 4° 47' 24" E). Coll 1973 by J Geys, Univ Antwerp, Belgium.	
IRPA-143.	2335 ± 125 385 BC
1m depth.	
IRPA-144.	6225 ± 260 4275 BC
3m depth.	
IRPA-145.	8215 ± 280 6265 BC
4m depth.	
IRPA-146	9055 ± 315 7105 BC
5m depth.	
IRPA-147.	9320 ± 320 7370 BC
6m depth.	

General Comment (JG): dates used for stratigraphic study of peat formation.

Uitbergen series

Samples from Uitbergen, E Flanders, Belgium (51° 2' N, 3° 58' E). Coll 1973 by G De Moor, Univ Ghent, Belgium.

IRPA-148. **23,765 ± 450**
21,815 BC
Peat at 6.9m depth.

IRPA-149. **7955 ± 245**
6005 BC
Calcareous clay at 2m depth. No pretreatment because sample was too porous.

IRPA-150. **21,115 ± 450**
19,165 BC
Piece of wood at 7.5m depth.

General Comment (GdeM): dates used for stratigraphic study. Results agree with palynologic analysis.

II. ARCHAEOLOGIC SAMPLES

IRPA-131. Kruishoutem **4035 ± 190**
2085 BC
Charcoal from Kruishoutem, E Flanders, Belgium (50° 52' N, 3° 25' E). Coll 1972 by Y Van Wambeke, subm by M Rogge, Univ Ghent. *Comment* (MR): from cremation grave of Bell Beaker culture (De Laet and Rogge, 1972). In this country the Bell Beaker culture is the 3rd of Neolithic cultures. Dates agree with GrN-2419, -3097, -2158, and -2481 (R, 1963, v 5, p 177, 178).

IRPA-132. Spy **22,105 ± 500**
20,155 BC
Burned bones from Spy, prov Namur, Belgium (50° 28' N, 4° 41' E). Subm 1972 by F Twiesselman, Inst Royal Sci nat, Belgium. Collagen extraction is described by Longin (1970). *Comment*: result used to date archaeological layer.

IRPA-134. Ucimont **1870 ± 90**
AD 80
Piece of tree trunk from Ucimont, prov Luxembourg, Belgium (49° 49' 48" N, 5° 3' E). Subm 1972 by F Twiesselman. *Comment*: result used to date layers of Semois R bed.

Pessinus series

Two samples from Roman excavations at Pessinus, Ballihsar, Eskischir, Turkey (39° 20' N, 31° 35' E). Subm by G Stoops, Geol Inst, Univ Ghent, Belgium.

IRPA-135. **1315 ± 70**
AD 635

Charcoal from upper floor of house, at 2m depth. Archaeologic date: Byzantine period.

IRPA-136. **2020 ± 100**
70 BC

Burned corns from floor of stoa (market place) covered with calcareous colluvial material. Sample was in wall of store well.
General Comment (GS): dates must be compared with IRPA-126, -127. IRPA-127 dates beams used to erect the stoa while IRPA-126 dates destruction by fire. Archaeologic date: 1st or 2nd century.

IRPA-142. **1600 ± 85**
AD 350

Wood from Ostende, W Flanders, Belgium (51° 12' 14" N, 2° 51' 07" E). Coll 1973 by H Thoen, Univ Ghent, Belgium. *Comment:* found on beach at low tide. Piece of a pile of wooden construction. Date used to study Roman habitation of coastal region. Archaeologic date: 1st to 3rd centuries.

REFERENCES

- Dauchot-Dehon, M and Heylen, J, 1973, Institut royal du Patrimoine artistique radiocarbon dates IV: Radiocarbon, v 15, p 303-306.
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Longin, R, 1970, Extraction du collagène des os fossiles pour leur datation par la méthode du carbone-14: Thesis, Fac Sci, Univ Lyon, France.
Vogel, J C and Waterbolk, H T, 1963, University of Groningen radiocarbon dates IV: Radiocarbon, v 5, p 163-202.