

**RADIOCARBON DATES FROM SOVIET LABORATORIES,
1 January 1962—1 January 1966**

Commission for the Study of the Quaternary Period,
Academy of Sciences, USSR

(Translated by Edith M. Shimkin, University of Illinois)*

General Comments: D. B. Shimkin and E. M. Shimkin, University of Illinois.

In 1966, the Commission for the Study of the Quaternary Period published an analysis of current findings and problems in Pleistocene geology (Grichuk *et al.*, 1966), to which was appended an official list (p. 240-282) of all 323 Soviet radiocarbon dates determined between 1962-65. The determinations are presented by laboratory, namely, the Laboratory of the Geological Institute, Academy of Sciences, USSR (GIN), the Radiocarbon Laboratory of the V. G. Khlopin Radiological Institute, Leningrad (Le)**, the Laboratory for Quaternary Geochronology of the All-Union Institute for Geological Research, Leningrad (LG), the Radiocarbon Laboratory of the V. I. Vernadsky Institute of Geochemistry and Analytical Chemistry (Mo), the Geo-Biochemical Laboratory of the Institute of Zoology and Botany, Estonian SSR, Tartu (TA), and the Laboratory of Tbilisi State University (TB). In the report on the Vernadsky Institute (Mo), 57 dates previously reported in Radiocarbon, 1966, v. 8, p. 292-323, have been omitted, but revisions in 3 other dates of this laboratory are given. Similarly, 37 dates from the Estonian Institute of Zoology and Botany (TA) published in Radiocarbon, 1966, v. 8, p. 430-441, have been excluded, although revisions of 7 other dates from that institution are presented.

All Soviet reports to date use a half-life for C^{14} , of 5568 yr. The methods used by the Vernadsky Institute (Mo) and the Estonian Institute of Zoology and Botany (TA) have previously been published (Radiocarbon, *op. cit.*); in the current reports are partial statements on procedures used by the Geological Institute (GIN) (Cherdyntsev *et al.*, 1964), and the Laboratory of Quaternary Geochronology (LG) (Arslanov *et al.*, 1966). Data on procedures of the Khlopin Radiological Institute (Le) and the Tbilisi State University (TB) are not available.

The original copy has been edited for conciseness and clarity. The original haphazard order of the date lists has been changed to a geographical sequence running essentially west to east.

Sample locations were not provided in the original Russian text. With a few exceptions, the necessary information was found in the Atlas

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** Not to be confused with LE (ex-RUL), the Radiocarbon Laboratory of the Inst. of Archaeol., Acad. of Sci., USSR (Neustadt, 1965, p. 65). Some RUL-dates have been published in Radiocarbon, 1965, v. 7, p. 223-228.

SSSR, 1955, and maps of the Main Administration of Geodesy and Cartography of the Ministry of Geology, the Main Administration of Geodesy and Cartography, MVD, USSR, and the USSR maps of the U.S. Army Map Service. A map and key to the Kostenki Sites (GIN-86, 93, 89, 79, 78, 85, 77, 107, 88) appear in Tret'yakov and Mongayt (eds.), *Notes on the History of the USSR*, p. 23. Detailed citations to the above sources appear in the list of references below. In addition, coordinates were checked with those appearing in *Radiocarbon*, 1966, v. 8.

Maps:

- Atlas SSSR (Atlas of the USSR), 1955: Moscow, Glavnoye upravleniye geodeziyi i kartografiyi, MVD, SSSR (Main administration of geodesy and cartography, MVD, USSR).
- Glavnoye upravleniye geodeziyi i kartografiyi Ministerstva Geologii SSSR: Yaroslavskaya Oblast'. Fizicheskaya uchebnaya karta (Main administration of geodesy and cartography of the Ministry of Geology, USSR: Yaroslavl' Oblast. Instructional map for physical geography), 1:600,000, 1966: Moscow.
- Glavnoye upravleniye geodeziyi i kartografiyi, MVD, SSSR: Magadanskaya Oblast' (Main administration of geodesy and cartography, MVD, USSR: Magadan Oblast), 1:2,000,000, 1957: Moscow.
- Yakutskaya ASSR (Main administration of geodesy and cartography, MVD, USSR: Yakut ASSR), 1:2,000,000, 1958: Moscow.
- Tret'yakov, P. N., and Mongayt, A. L., (eds.), 1956, p. 23, map and key to Kostenki Sites.
- U. S. Army map Service: USSR, 1:4,000,000, 1957, 1958, 1961: Washington, D. C. (2nd ed.).