The University of Waikato

Radiocarbon Dating Laboratory

Private Bag 3105
Hamilton,
New Zealand.
Fax +64 7 838 4192
Ph +64 7 838 4278
email c14@waikato.ac.nz
Head: Dr Alan Hogg

Report on Radiocarbon Age Determination for Wk- 10554

(AMS measurement by IGNS [NZA-14970])

Submitter T.F. King

Submitter's Code TIGHAR7-1

Site & Location Southeast corner of Nikumaroro Island, Phoenix group, crest of coral ridge, Kiribati

Sample Material Charcoal

Physical Pretreatment Possible contaminants were removed.

Chemical Pretreatment Sample washed in hot 10% HCl, rinsed and treated with hot 1% NaOH. The NaOH insoluble fraction was treated with hot 10% HCl, filtered, rinsed and dried.

$d^{14}C$	-19.7 ± 8.4	‰
$\delta^{13}C$	-27.2 ± 0.2	‰
$D^{14}C$	-15.3 ± 8.4	‰
% Modern	98.5 ± 0.8	%

Result **Modern**

Comments

18/4/02

- Result is *Conventional Age or % Modern* as per Stuiver and Polach, 1977, Radiocarbon 19, 355-363. This is based on the Libby half-life of 5568 yr with correction for isotopic fractionation applied. This age is normally quoted in publications and must include the appropriate error term and Wk number.
- Quoted errors are 1 standard deviation due to counting statistics multiplied by an experimentally determined Laboratory Error Multiplier of 1 .
- The isotopic fractionation, $\delta^{13}C$, is expressed as ‰ wrt PDB.
- Results are reported as *% Modern* when the conventional age is younger than 200 yr BP.