

CLIMATE CENTER PROPOSAL 2003

To: Climate Center Committee

From: Li Cao and Tzu-chien Chiu (205 Core Lab; ext. 8625)

Date: June 30, 2003

Re: Thesis field sampling travel expense

We requests \$6,000- from the Climate Center to cover travel costs for us to do field sampling in our proposed research area, Araki Island, which is located south of Santo Island, Vanuatu in South Pacific. The purpose of the project is to collect pristine corals for uranium series and radiocarbon dating in order to estimate the fluctuations in surface ocean radiocarbon. We are interested in measuring Delta 14C signals due to deep water production changes, geomagnetic field variability, and compare Atlantic and Pacific values with atmospheric estimates from radiocarbon measurement of macrofossils from varved lake sediments.