

UNIVERSITY OF CALIFORNIA, BERKELEY

SANTA BARBARA • SANTA CRUZ

BERKELEY • DAVIS • IRVINE • LOS ANGELES • RIVERSIDE • SAN DIEGO • SAN FRANCISCO

Department of Earth and Planetary Science

Berkeley, CA 94720-4767

July 14, 2016

Professor Susan Muller

Associate Dean of the Graduate Division

318 Sproul Hall

Berkeley, CA 94720

Dear Professor Muller,

I am writing to confirm that graduate student Ian Rose (SID 17864617) is the first author and lead researcher on two manuscripts, which are currently under review at the journal *Physics of Earth and Planetary Interiors*. Ian’s contributions are both original and quite novel. I enthusiastically support the inclusion of this work in his dissertation. My role as graduate supervisor was to oversee the research. Ian can rightly claim credit for the main ideas in this work.

Sincerely yours



Bruce Buffett

Professor and Graduate Supervisor