1999 Fall Meeting
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HR: 0830h
AN: **G51B-10**
TI: GPS Measurements of Plate Coupling and Strain Partitioning in Northwestern Oregon
AU: *** McCaffrey, R**
EM: *mccafr@rpi.edu*
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Goldfinger, C**
EM: *gold@oce.orst.edu*
AF: *College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR 97331 United States*
AU: **Stevens, C W**
EM: *indagen@yahoo.com*
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Johnson, C K**
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Zwick, P**
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Long, M**
EM: *longm@rpi.edu*
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Williams, C**
EM: *willic3@rpi.edu*
AF: *Dept. of Earth and Environmental Sciences, Rensselaer Polytechnic Institute, Troy, NY 12180 United States*
AU: **Johnson, J**
AF: *College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR 97331 United States*
AU: **Zhou, Y**
AF: *College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR 97331 United States*
AU: **Nabelek, J**
EM: *nabelekj@ucs.orst.edu*
AF: *College of Oceanic and Atmospheric Sciences, Oregon State University, Corvallis, OR 97331 United States*
AU: **Murray, M H**
EM: *mmurray@pangea.stanford.edu*
AF: *Department of Geophysics, Stanford University, Stanford, CA 94305 United States*
AU: **Smith, C L**
EM: *curtsmith@earthlink.net*

AF: *NOAA, National Geodetic Survey, P.O. Box 12114, Salem, OR 97309 United States*
AB: Gobal Positioning System measurements in the northern half of western Oregon ($44\deg$N to $46.5\deg$N, $121\deg$W to $124\deg$W; Eugene to Portland) are being used to explore the motion of the Oregon forearc relative to North America, plate coupling, and strain partitioning associated with oblique convergence between the Juan de Fuca plate and North America. We are utilizing GPS occupations made by the US Geological Survey (1992-1994), by the Cascades Volcano Observatory (1992-1997), by Rensselaer and Oregon State University (1996-1999) and by by an Oregon consortium of volunteer observers through direction of the National Geodetic Survey (1998). In addition, several continuous sites operate in this region, both part of the Pacific Northwest Geodetic Array (PANGA) and U.S. Coast Guard CORS sites. Preliminary results based on 1994-1997 measurements suggest that the Oregon forearc moves northward relative to North America at several mm/yr possibly with localized shear along the Cascades arc. The western edge of the network reveals significant strain rates, probably associated with subduction coupling with the Juan de Fuca plate. Site velocities that incorporate measurements through 1999 will be presented at the meeting.
UR: **http:///www.rpi.edu/$\sim$mccafr/oregon.htm**
DE: 1206 Crustal movements--interplate (8155)
DE: 1243 Space geodetic surveys
SC: G
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