

## RING OF FIRE (II)

TIGER MTN, WA : GPS MARKER POINT CEMENTED INTO ROCK - ALL ACROSS US ARE SIMILAR STATIONS INDICATE N. AMERICA IS MOVING WEST @  $\approx 3$  IN/YR  
HOT MANTLE CONVECTION CURRENTS MOVE PLATES OCEANIC (PACIFIC CRUST) SUBDUCTS & IS DESTROYED WATER FROM SUBDUCTED PLATE MELTS ROCK & MAGMA RISES IN PLUMES TO EXTRUDE IN VOLCANOES  
EVEN THOUGH SUBDUCTION OCCURS, OCEANIC CRUST STILL EXISTS (SO NEW SEAFLOOR MUST BE PRODUCED TO REPLACE SUBDUCTED ROCK  
SUBMERSIBLE FOUND THERMAL VENTS ON OCEAN BOTTOM

ALVIN

MID OCEAN RIDGES

SEA FLOOR IS RENEWED <sup>(CREATED)</sup> AT DIVERGENT PLATE BOUNDARIES

EARTH'S SURFACE MATERIAL IS RECYCLED BY PLATE TECTONICS

HAWAIIAN ISLANDS & PARTS OF CA & MEXICO ARE MOVING ALONG W/ PACIFIC PLATE TOWARD AK