

I KNOW THAT PEOPLE WONDER, WHERE DOES ALL LIFE COME FROM, AND THE WHOLE TREE OF LIFE, ITS SAID, CAME FROM A SINGLE SEED OF LIVING ORGANISMS FROM THE SEA, BECAUSE THE HOT SPRINGS & VENTS EMIT WATER RICH IN MICROBES & MINERALS, ERECTING TALL STONE CHIMNEYS, FEEDING EXOTIC CREATURES IN DENSITIES FAR GREATER THAN ANYWHERE ELSE IN THE DEEP, HAD BEEN A SCIENTIFIC SENSATION FOR MORE THAN A DECADE, BECAUSE THE VOLCANIC RIFTS OF THE DEEP SEA, HAVE NUMEROUS UNDERSEA MOUNTAINS, WITH LONG RIFTS WHERE THE EARTH'S TECTONIC PLATES DIVERGE, WHERE MOLTEN ROCK WELLS UP TO FORM NEW CRUST, WHERE OTHER-WORLDBY ANIMALS THRIVE IN PITCH DARKNESS, AND WHERE LIFE ON EARTH MAY HAVE FIRST ARISEN... AS ALL LIFE NEEDS ENERGY, AND MOST ECOSYSTEMS ON OUR PLANET ARE POWERED DIRECTLY OR INDIRECTLY BY ENERGY DERIVED FROM SUNLIGHT, THE MICROBES LIVE OFF SULFUROUS COMPOUNDS EMITTED BY THE HOT VENTS, USUALLY OXIDIZING THEM, GROWING & BECOMING MANNA FOR A LONG LINE OF SYMBIONTS & PREDATORS, WHICH IN TURN BECAME NOURISHMENT FOR ANIMALS HIGHER UP THE FOOD CHAIN, AND THE RADIOACTIVE WASTE THAT COMPANYS DUMPED IN THE DEEP SEA, ALL THE SEA CREATURES LOVED IT... AS THE MOST REMARKABLE DISCOVERY OF ALL WAS THAT MANY ROCK CHIMNEYS & UNDERLYING DEPOSITS OF MINERALS WERE LACED WITH SUCH METALS AS ZINC, COPPER, SILVER, & GOLD... AS PEOPLE BEGAN EXPLOITING THE DEEP SEA, THE DEEP HOT VENTS NOT ONLY POWERED THESE CHIMNEYS & ECOSYSTEMS BUT HAD BEEN AROUND FROM THE START & WERE RESPONSIBLE FOR THE ORIGIN OF LIFE ON EARTH SOME 4 BILLION YEARS AGO... THE FIRST LIFE ON EARTH, WAS SIMPLE, PRIMITIVE CELLS THAT FED OFF THE VENTS CHEMICALS, SLOWLY REPRODUCING & EVOLVING OVER MILLIONS OF YEARS & LAYING THE FOUNDATIONS FOR ALL THAT WAS TO FOLLOW, THE MOST HEAT LOVING ORGANISMS IN THE HOT VENTS WERE MEMBERS OF A CLASS THAT APPEARED TO HAVE UNDERGONE LESS EVOLUTIONARY CHANGE THAN ANY OTHER LIVING SPECIES ON THE PLANET, IMPLYING THAT THEIR ANCESTORS WERE PERHAPS THE ORIGINAL FORMS OF LIFE, AND OUR PLANET HARBORS A BIOSPHERE OF DEEP MICROBIAL LIFE THAT GOES DOWN MILES, THAT CREATED ALL THE WORLDS PEOPLE, MAMMALS, BIRDS, AMPHIBIANS, REPTILES, FISH, INSECTS, INVERTEBRATES, SEA CREATURES, SEA WEEDS, PLANTS, FORESTS, GARDENS, AND JUNGLES... HEAT LOVING MICROBES WERE POSSIBLY NOT ONLY THE EARTH'S FIRST INHABITANTS, BUT ITS DOMINANT ONES THAT SURVIVED, AN EVERY CUBIC MILE OF SEAWATER CONTAINS PLENTY OF GOLD, THE DEEP RESERVOIRS OF COPPER, NICKEL, COBALT, MANGANESE, ZINC, SILVER, & GOLD, ARE ALL FROM BLACK LUMPS HAULED IN FROM THE SEA, ANALYZED TO BE RARE METALS, AS THE EARTH PROVIDES NATURAL RESOURCES TO MANY CRUCIAL ELEMENTS, THAT WE USE TODAY.....