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in a preview of results from an epic 10 year collaboration by over 1 000 scientists lloyd and fellow researchers with the deep carbon observatory dco estimate the deep biosphere the zone of life under earth s surface occupies a volume of between 2 to 2 3 billion cubic kilometres 0 48 to 0 55 billion cubic miles so far the deepest specimens of life come from more than 3 miles beneath the surface the mass of life in this deep biosphere adds up to hundreds of times more than all of the humans on these findings from scientific ocean exploration suggest that microbial life may be pervasive everywhere beneath earth s surface under conditions long thought to be inhospitable if not fatal the collaboration has revealed that life teems beneath the planet s surface in a vast ecosystem scientists call the deep biosphere a diverse mix of environments make up this other world beneath earth s crust which encompasses a volume nearly twice as large as all the oceans combined based on the known temperature limit for life which geib reports is some 250 degrees fahrenheit the researchers discovered that life could survive up to six miles below the planet s surface more than a mile below the surface our planet supports diverse creatures that could give us clues about life across the solar system icebergs are famous for keeping secrets the bulk of these giant icy islands floats beneath the surface of the sea a 700 foot tall iceberg for example may extend only 100 feet above water but as new research shows ice isn t the only thing icebergs hide a hidden ecosystem seems to lurk six miles below the mariana trench offering clues for finding life across the solar system on earth circa four billion years ago life was hard it strongly suggested that previously unimagined and potentially huge communities of microbial life were thriving in the dark increasingly hot oxygen depleted rocky cracks and crannies below the ocean bottom a remote expedition to the deepest layer of the earth s oceanic crust has revealed a new ecosystem living over a kilometre beneath our feet it is the first time that life has been found in the life beneath the ice shelf is also hostile and isolated creatures living here must survive in dark icy cold water with limited access to sources of food yet life does exist here small creatures swim around under the ice shelf following food drifting inwards from the ice shelf border beneath the pit some 370 miles of tunnels twist through solid rock extending more than 1 5 miles below the surface for 126 years this site in lead s d housed the homestake mine the deepest scientists have long listened to the ocean but new technology is helping to piece together a far more complex picture of life beneath the waves here bbc future lets you listen in most life on earth lives at least in part within the soils beneath our feet soil is likely home to 59 percent of life including everything from microbes to mammals making it the singular most biodiverse habitat on earth ecologist mark anthony and colleagues estimate in their new research life is abundant on earth but we haven t yet found it anywhere else in the universe how do we search for life beyond our home planet scientists say we should look for three key ingredients that make life possible liquid water chemistry and energy also life takes time to develop but beneath its still surface these tiniest of life forms ebb and surge ravaging secret winter feasts their tiny subnivean lives and deaths alter the composition of our atmosphere and may affect the entire planet s health submarine life under the waves with perry fitzpatrick for the first time british cameras have been given access on board a hunter killer submarine on live operations why subsistence peasants are important theoretical overview life beneath the level of the marketplace pre industrial scotland or how adam smith got workers into his pin factory america s triumphant subsistence peasantry 1620 1820 or how daniel boone ran from ben franklin s shopkeepers squatting pre emption and nowhere left to 10 exciting outdoor activities you and the kids will love march 20 2024 entrees soups an exploratory tour through the microscopic world of antarctica each microbe tells a story of the weird and whimsical life in antarctica that is otherwise invisible to the naked eye

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