

Tao te ching pdf hrvatski

Suitable for KS3,4 or 5, a comprehensive questionnology panel to accompany the BBC episode for pupils to consider more thoughtful information. Good relations with evolution and ecological topics at GCSE level. Episodes can be found at: moreReport an appropriate issue for KS3,4 or 5, a comprehensive guestionnology table to accompany bbc episodes for students to consider more thoughtful information. Good relations with evolution and ecological topics at GCSE level. Episodes can be found at: moreReport a problem This video guide includes 3 instructional resources for use with the video Blue Planet 2: The Deep. 1. 24 Questionn questionno table w/key2. 52 Word Jumble w/key3. 52 Word Search from my w/keyCheckout Blue Planet II: One Ocean set of free resources! Questions are answered about every 2-3 minutes. Ask students to answer all, either just odds/evens to prevent sharing answers or to spread out the amount of time between questions. Video questions are usually word for word from the video. I did questions for students to focus on video and nar0s. Students can quickly answer these questions without being distracted too much from the video. I guarantee students will hang out every word looking for the next answer! This was true for both my 7th grade middle school students and my high school students. Great lesson for you or alternative. Print a two-sided page with search terms on the front and messy words on the back. You can give students the option of completing video questions or searching for words/clutter. Or just use word search/clutter as a side operation for an extra. For that the right document for class 5,6,7,8,9,10,11,12. The file you are purchasing is a file from the editable doc. There is also Dropbox Link included on the word document including a Dropbox folder for videos in mkv format and resources in both formatting from doc/pdf. Check out my other resources:Our Planet: Episode & amp; Complete series resourcesPlanet 2: Episode & amp; Complete series resourcesPlanet Earth Subtitle Found! We found subtitles for The Deep program. Please move down to get them, or go here to previewDavid Attenborough narrates a natural history of the oceans to discover exotic creatures, otherworldly living in the depths of the ocean. Content similar to Browse content is similar to The Deep. Check out below for episodes and series from the same genre and more!formatgenreseries before discovering the new Facebook emoji! 60% of our planet is covered by the ocean more than one That - the deep sea - is the largest habitat on Earth, and it's largely unknown.' 0:00:420:00:44Join us on a journey to the deep seabed,0:00:500:00:54to an alien world not ever revealed before.00:540:00:57It's home to some of the most exotic animals on earth.0:00:590:01:07The new species discovered on most dives.0:01:1 20:01:15More people have gone Into space than has ventured this deep.01:170:01:21Come on a journey into the abyss.0:01:310:01:34A whale sperm takes a breath -0:01:4 It's about to leave warm, well-lit surface water0:01:54and dives far down into the cold, the dark depths of the ocean are deep.01:540:01:59 At the surface, it takes air at the same pressure as we breath it.0:02:000:02:05But it will find food at a depth of more than 1,000m,0:02:090:02:13n where the pressure is 100 times higher on the surface (0:02:310:02:35 protect our pilots and cameraman from enormous pressure under 0:02:350:02:39and allow the submarine to dive just over 900m.0 0:02:390:02:43With each passing meter, the pressure rises by 0:02:450:02:48and sunlight diminishes.02:02:50'1,000ft.'02:510:02:530:02:57and the water temperature is dropping fast. where many animals0:03:080:03:11 have become completely transparent. an animal needs to see0:03:190:03:22and yet, as far as possible, must avoid being seen., 12cm long,0:03:310:03:03:03:34and almost perfectly transparent.03:340:03:38by two huge eyes, which it strains to detect its prey.0:03:380:03:44 Lost other sunset monsters - Phronima, inspiration for the alien film.03:03:470:03:53She and his growing pink offspring0:03:540:03:57live like parasites, In the stolen body of a jelly.03:570:04:00This impressive cutlery set and its tremendous eyes0:04:040:04:07make a Phonima Powerful predators.04:070:04:10M really complex animal lice have become transparent in the twilight zone.0:04:180:04:21Squids is one of the most advanced of in backbones.0:0:04:21Squids is one of the most advanced of in backbones.0:0:04:21Squids But this never meets a hard surface in its entire life, but its body doesn't need to be as strong as that of its cousins. Thousands of tiny cilia push them through the world, gender without walls.0:04:500:04:54 Invisible in the gloom.0:05:030:05:04 they grope for their prev.0:05:040:05:07 Comb ielly for out long sticky mesh 0:05:130:05:150:150:05:05 18 But the most extensive death trap0:05:230:05:25 is set by siphonophores.0:05:250:05:27 Pulsating bell is the head of a colonial jelly. small stings drifting across the sea.0:05:370:305:41500 meters down and in even the clearest tropical waters0:05:550:05:550:05:550:05:58M that little, that our eyes cannot detect it. But others can.05:580:06:02Vival in the twilight zone is all about seeing, but not seen.0:06:100:06:13Hatchet fish are masters at hide-and-seek.0:06:170:06:21And they have the large sensitive eyes necessary to search for prev.0:02:1 But their bodies are flat., they are only visible, thin though they are.0:06:380:06:41But as soon as they turn.0:06:410:06:410:06:43 the two sides reflect the remnants of blue light from the surface:06:430:06:548and they disappear into darkness. The whole shoal can hide this way.06:06:550:06:57The tney-shaped eyes of many predators, even in this bleak, 0:07:020:07:06are can distinguish their prey from the light rarely detected from above.0:07:090:07:15Hatchet fish have a confusing way of searching for them.0:07:15 07:21The cells that produce their light are called photophores.07:210:07:33This counter-shading breaks up their silhouette But these are not the naked eyes.07:07:58:04 0:08:05 can distinguish between the light produced by photophores0:08:050:08:100:08:11V so . an escape device opposed by one for attack0:08:140:08:19 in an evolutioned arms race conducted for millions of vears.08:190:0 8:24Descend under 1.000 meters.0:08:290:08:31and vou enter the dark zone.0:08:310:08:33 There is no sunlight through this dark area. Life is more sparse than ever. dark, dangerous world.0:08:500:08:53Relative to body size,0:08:590:09:00these are the largest teeth in the ocean.09:000:09:03They're so big, Their owners can't even close its mouth.09:09:030:09:07Ch they belong to fangs.0:09:120:09:15Unlike deepest-sea fish,0:09:24With food in such short supply at this deepth (0:09:340:09:24With food in such short supply at this deep sea here do not rely solely on range look - many people have small eyes.0:10:250:10:30So Their bodies are lined with sensitive bodies with movement.0:10:300:10:37This monster, half a meter on,0:10:480:10:480:10 This is the first time it has been seen. 10:55It is covered with hundreds of sensitive antennae.0:10:580:11:01lt is capable of detecting the movement of any prev0:11:010:11:11:040 is enough to stray too close to this scoty predator.0:11:040:11:1040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040:11:040 down from the beginning make up a quarter of its body.0:11:290:11:32Its eyes are tiny, but its mouth is really huge.0:11:330:11:37It is called eel gulper Because it can engulf a meal of almost any size. 0:11:540:11:58 whether it's small ... or big.0:11:580:12:01Gulper eels can swallow prey as big as fishing cloud flashes in the dark.0:12:400:12:400:12:45The light produced by bacteria0:12:470:12:50m that lives permanently inside the attraction (0:12:500:12:56There are all kinds of baits in the dark.0:12:590:13:02 Get into my mouth, little fish. 0:13:110:13:13:13 What is the flies.0:13:510:13:53For a squid hunting, with big eyes, this glimpse is fascinating.0:13:590:14:03It may be just food.0:14:200:14:23Tracting Mate in this darkness0:14:330:14:330:14:36can be even more difficult than finding food.0:14:360:14:39Flashing bait can be useful.0:14:430:14:46Can be sure, surely, female mermaids have them.0:14:460:14:50The tiny males are only one-tenth the size of females.0:14:540:14:58 Their sole purpose is to find a mate in the dark.0:14:580:15:02She releases chemicals into the water,0:15:020:15:02That the males have a scent with a special white body before the eves.0:15:15:11 Having finds a partner Male bites to your stomach, she said, with specially designed teeth.0:15:240:15:240:15:240:15:27 With a few weeks (0:15:320:15:33) Man comp comped with sub Female.0:15:330:15:36There he will stay for the rest of his life .0:15:360:15:39 Her blood provides him with his food.0:15:390:15:44N period , she received a continuous, reliable sperm supply.0:15:440:15:49M a great solution to find a mate 0:15:490:15:52 in the vast emptiness of the deep sea.0:15:520:15:54To help in the ongoing battle between predators and prey, 0:16:050:16:09The fish have developed headlights.0:16:16:16:16:12The photophores that produce light beneath their eyes0:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230:16:230 very few carnivorous fish produce red light.0:16:340:16:340:16:340:16:340:16:340:16:340:16:340:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16:430:16 useful in escaping as well as attacking.0:17:200:17:24A shrimp feel a threat.0:17:300:17:32It turns domestic, release a bio-ingging glue.0:17:440:17:440:17:48and let it shine and be vulnerable to the enemy.0:17:480:17:52Nh the sparkle in the darkness0:17:550:17:59 produced by copepods.59 0:17:590:18:02H they can flash like this to communicate with each other0:18:020:18:08:08 and confuse their predators.0:18:080:18:140:18:20It is the size of a bean.0:18:200:18:23That is great for an ostracod.0:18:230:18:26Copepods are a favorite prey0:18:260:18:29and it actively searches for their flashes in the dark.0:18:370:18:42It discharges a packet of bio-ingging liquid.0:18:470:18:50The flash is delayed, like a deep charge.0:18:520:18:55Spinning domestic confusion,0:18:580:19:01gigantocypris chasing flashes ... 0:19:010:19:05..and copepod slides away, unseen, Darkness.0:19:130:19:16The final bio-ingested defense mechanisms are created by deep-sea jellyfish, periphylla.0:19:290:19:34That, perhaps, is how it is go its enemies.0:19:450:19:48These bright lights are produced by firefly squid.0:20:040:20:09Normally they live way down, at 300m.0:20:12beyond the reach of the Japanese fishermen nets.0:20:12beyond the reach of the Japanese fishermen net glowing tips of their two front tentacles,0:20:240:20:29but only in the shadow of the deep sea0:20:290:20:32can you fully appreciate the complexity of Their entire body is covered in photophores.0:20:30:20:40The exact function is unclear It can be to attract sexual friends or brilliant predators.0:20:480:20:54 The rest can

be camouflaged, deliver counter-attacking balls0:20:540:20:58 as they cruise into the twilight zone.0:20:580:21:01 Every night of the season ,0:21:050:21:10Be before dawn, they will return to depth,0:21:150:21:18Leaving their eggs to grow in shallowness.0:21:180:21:21The daily cycle of the sun0:21:300:21:34has a profound influence on life in the deep ocean.0:21:340:21:40it triggers the greatest migration of creatures on our planet.0:21:400:21:44A thousand tons animals go up from the dark zone0:21:450:21:50 to become richer, shallower water every night.0:21:500:21:53 The first small grazing species up,0:21:560:21:59S search for micro-trees that only grow in shallow water.0:21:21 590:22:08M a variety of different animals join the convoy, 0:22:090:22:14 or eats off it, as it passes through.0:22:140:22:16Many will go towards the surface and then, at dawn,0:22:220:22:27 find yourself at risk from the enemy,0:22:270:22:30The visitors return to the safer darkness of the depth .0:22:300:22:34 The sun only has a direct effect0:22:410:22:22:22:22:22:22:22:24 in the top 100 meters of the ocean.0:22:440:22:47 is only here that photothesy can take place and coral reefs thrive.0:22:590:23:02 You are less than 150 meters, photothesy becomes impossible.0:23:110:23:15 You do not find plants, 0:23:170:23:19 are animals.0:23:190:23:21Here, the animals are adapted to catch sea snow -0:23:23:23:23:23:23:23:27 particles of dead animals and plants drifting down from above.0:23:270:23:32That, they depend, used,0:23:320:23:34new obtained from the sun by organisms living in surface waters.0:23:340:23:38 Travel near the seabed,0:23:480:23:50 We will carry out a journey to the deep seabed.0:23:500:23:55To a world separate from the mid-water above.0:23:550:23:59At around 300 meters,0:24:090:24:11The drop off and we move up continent.0:24:110:24:16Thithm between 150 miles coast,0:24:180:24:22sloping in a gentle gradient down to a maximum depth of 4,000 meters.0:24:220:24:28 Water temperature drops below four degrees Celsius,0:24:340:24:39 Without the light of the sinking vessel,0:24:440:24:48 will be completely dark.0:24:480:24:51 The water is crystal clear because yes'. s so little organic matter.0:24:510:24:560nly 3% of potential food at the surface reaches here.0:24:560:25:02At first sight, it appears a lifeless. The songs.0:25:090:25:14There is life even below.0:25:140:25:17There are animals that will die instantly if brought to the surface in the net.0:25 200:25:25You can only see them behaving normally usually from submersibles.0:25:250:25:39sea cucumbers, Brittle stars and sea urn.0:25:390:25:43There millions of off the seabed (0:25:430:25:473) Crossing the seabed, 0:25:470:25:470:25:49hoovering up the edable seeds in sediments .0:25:56D despite the thin spread, The ocean floor is so deep that it is immense: 25:560:26:01these is one of the most numerous animals on the planet chimpanzees.0:26:010:26:05 Their incense is good for advocacy and defense, 0:26:050:050 26:10 but not good for mating.0:26:100:26:12 Find a person Mate in the seabed is largely empty this can be a problem.0:26:140:26:20Mhidthing stays in the herd ,0:26:26:20 200:26:22 to make sure they're never too far from a potential partner.0:26:220:26Rocky outcrops offer anchors good for animals. Sea lilies look like plants, but are, in fact, animals.0:26:550:26:550:26:58These sudden movements0:27:07:01swat away tiny amphipods that try to steal the sea lily's captures.0:27:010:06Coral reefs are not supposed to exist in total darkness.0:27:150:27:19But recently, a new type of coral has been found as deep as 2,000 meters.0:27:190:27:24In the cold waters of a Norwegian fjord:27:240:27:28ther there is a sea coral reef 30m deep and 200m long.0:27 This coral does not receive energy from the sun,0:27:27:340:27:340:27:370:27:401ts polyp is much larger than those of coral water shallow.0:27:400:27:44These are, in fact, The largest coral polyps in the ocean.0:27:500:27:56 They belong to deep sea fungal corals.0:27:560:28:00The tentacles are 3 lengths theircm can catch much larger prey. every particle of food0:28:110:28:14in food0:28:110:28:14in near the desert0:28:14in food0:28:110:28:14in near the desert0:28:14in food0:28:110:28:14in near the desert0:28:14in near the desert0:28:14in food0:28:110:28:14in near the desert0:28:14in food0:28:110:28:14in near the desert0:28:14in near the desert0:28:14in near the desert0:28:14in food0:28:110:28:14in near the desert0:28:14in near the desert0:28:1 has been converted into A trap.0:28:2 60:28:30Inst the sea cucumbers are at the bottom.0:28:410:28:45But not deep sea species This extraordinary.0:28:450:2 8:49Its skirt of skin0:28:530:28:55 allows it to swim hundreds of meters on the seabed.0 :28:550:29:00Eventually, it will descend and , with luck.0:29:130:29:17land on a fresh feeding basis.0:29:170:29:170:29:170:29:19Thith. though. must be the most extraordinary animal design of all.0:29:270:29:32It is a polycheate worm that is deep - alone in its group - swimming in open water. 0:29:410:29:46The administration itself with its yellow folds, 0:29:500:29:54it finds new food source0:29:540:29:57it can escape predators.0:29:570:30This is chimaera, a cousin of sharks, less than a meter long.0:30:060:30:11Sensory pit on its chin helps it hunt at the bottom,0:30:130:30:16 while its surprisingly large eyes can help it detect bio-optical detection.0:30:160:30:20Large fish are rare here.0 :30:290:30:31There simply are not enough live prey to sustain them.0:30:310:30:35A lot has become scavengers.0:30:370:30:41.. and a shark sixgill.0:30:420:30:44These monsters grow to eight meters long.0:30:450:30:48Sixgills are living fossils. they have existed unchanged,0:31:050:31:09 live in water as deep as 2,500m.0:31:090:31:13A few people have ever been lucky, enough to catch a glimpse of the sharks and we know almost nothing about their behaviour., but occasionally (0:31:320:31:37M this is the new corpse of a man) 30-ton gray whale.0:31:460:31:50It's only been at the bottom for six weeks. But it drew hundreds of hagfish. appeared a body that fell 0:32:020:32:10H they lacked jaws, and rasp at flesh0:32:150:32:18with two rows of horny teeth on each side of their mouth.0:32:180:32:21 Next to the place, a shark sleeps, a real deep sea expert.0:32:270:32:32H they grow to more than seven meters long 0:32:350:32:35and have never been filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the whale's side are its job.0:32:42:32:46Unlike the happing of the seven filmed at such a depth So before.0 0 0:32:350:32:32:38The open wounds in the what would be at the seven meters in the seven meter ,0:32:540:32:56so can separate large masses of meat.0:32:560:33:00Sharks, hagfish and a variety of succession of deep sea eat meat for many years before all its nutrition has disappeared.0:33:110:33:1618 months later, when we return to this whale,0:33:190:33:22S all that remains is a perfect skeleton, stripped bare.0:33:220:33:26It is almost as if a museum specimen is carefully placed on the seabed.0:33:370:33:33:39T first, the skeleton seems completely abandoned,0:33:440:33:48but even after too long, there is still some meat left in the head.0:33:480:33:51Hagfish have a skeleton of cartilage and are so flexible that they can tie themselves to knots0:34:00:34:04:04and get a good buy than on the meat they ate on.0:34:040:34:07But smaller creatures have eaten here.0:34:130:34:16That a strip of white bacteria has formed on the mud0:34:34160:34:20t sketch figure the form of the whale.0:34:200:34:22And on the skeleton itself,0:34:230:34:26colonies of bacteria extracting energy from the bones.0:34:260:34:31Mosty, and in great abundance,0:34:340:34:37polychaete worms have collected the last edestable debris.0:34:370:34:41Th this is a new species that , so far Scientists have found 178 different animals on a vertebrae whales,0:34:490:34:55 most of them have been found anywhere else.0:34:550 34:57This whale, lying on a mile down,0:34:590:35:010:35:05Such craft can not go this deep.0:35:050:35:08To withstand the pressure here, you need a much stronger sinking ship.0:35:090:35:13This is Alvin, a ortho orast with only enough room in it0:35:130:35:18 for one pilot and two observers. Its walls are made of titanium.0:35:180:35:23The observation gates must be small.0:35:230:35:25Thite larger and sinking will explode under pressure here.0:35:250:35Alvin can dive to 4,500m, three miles below the surface.0:35:330:35:39 Around 3,000 meters, The last continental slope flattened out0:35:470:35:49 Thithing is that it is completely flat It's surrounded by giant trenches, hundreds of miles wide. 0:36:060:36:10th that drops more than seven miles below sea level. 36:200:36:26 Between them so far, they have discovered less than 1% of it.0:36:260:36:301,000 times more large animals live here than on the continental slopes But in places - hundreds of brittle stars on the seabed, in search of food.0:36:410:36:43 Fish were found right at the bottom of the deepest groove.0:36:470:36:51A result from a family, the aptly named rat-tails.0:36:5510:36:55The forage near the sea floor0:36:580:37:00and the smell trails from rotting corpses.0:37:040:37:07H they travel long distances through the abyss in search of food,0:37:070:37:12 but others prefer to sit and wait.0:37:120:37:15This is an ankle.0:37:190:37:210:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:240:37:2 ,0:37:330:37:38ththat is sensitive to even small motions.0:37:380:380:0 We know more about the lunar surface than about the abyss.0:37:52 Each dive still creates complete surprises.0:37:530:37:57 This deep sea octopus is about the size of a beach balloon the sea is nicknamed dumbo.0:38:060:060:38:08The skin between the tentacles and its patting ears0:38:200:38:24 allow Dumbo hovers easily on the seabed It searches for food.0:38:290:38:31 Right in the middle of the abyss. 0:38:500:38:55..the mid-ocean ridges.0:39:010:39:04 Rising nearly two miles off the seabed, 0:39:100:39:12 The ridges extend for 28,000 miles, the largest mountain chain on Earth.0:39:120:39:18When the sinking ship finally succeeded in reaching the ridges in the 1970s, 0:39:240:39:30, they have found an extraordinary world with miles of melting rock once. reinforced.0:39:350:39:39:39:39:39 They discovered towering chimneys (0:39:440:39:46Pouring out hot water like melted lead.0:39:460:39:49I, water becomes steam at 100 degrees Celsius,0:40:150:40:20; but here, Under immense pressure of the ocean,0:40:200:40:23it is still liquid at hot temperatures such as 400 degrees Celsius.0:40:230:40:27M sink must move carefully. The disaster is very close, and here, where water is loaded with hydrogen sulphides0:40:47poisonous to normal life processes, they found living creatures.0:40:560:41:00The tubes have a birthing place live of a new poly species deepchaete0:41:00:41:04th it is exposed to temperatures as high as 80 degrees Celsius.0:41:040:41:08No Other animals on earth are known to tolerate such high temperatures (0:41:110:41:15). So scientists call them Pompeii worms.0:41:10:41:15). So scientists call them Pompeii worms.0:41:10:41:15). community of different creatures.0:41:250:41:29 The vent bottom is grated there are herds of white crabs. 0:41:41:44 each two meters long and four centimeters long and four centimeters long and four centimeters of the depths,0:41:560:41:59h they discovered the density of life without energy from the sun.0:41:590:42:137he answers were found in the tube worms themselves.0:42:130:42:17The were full of specialized bacteria, can be obtained 0:42:170:42:120 energy from the sulphide poured from the vent.0:42:210:42:25The worm bunches are red with hemoglobin0:42:290:42:32 sulphide and oxygen down to bacteria.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The bacteria are the main source of energy for life here.0:42:37The sun (0:42:450:42:50these bacteria and other bacteria0:42:530:42:58Crabs and shrimp eat bacteria0:42:530:42:58Crabs and shrimp eat bacteria0:43:03:43:06and even try try to steal deep tube pieces plumes.0:43:060:43:10 Since the vent was first visited by the biology house in 1979,100:43:170:43:20a new species have been described every ten days.0:43:200:43:24E top of the food chain, fish that never stray far from the vents.0:43:250:43:31But they, or their descendants, will move in the end,0:43:310:43:35for we know that personal vents only work for a few decades.0:43:350:43:39Tho the density of life, living in such extreme conditions,0:43:540:43:59 in the middle of a vast, and otherwise barren, plains abyss,0:43:590:44:02astounded the first creature who saw it.0:44:020 It seems to them that this is proof of how life is on this planet,0:44:090:44:13th which inevitably begins at sea, May have begun.0:44:130:44:16 The deep-sea sinking vessel has made a further extraordinary discovery., at the bottom of the Gulf of Mexico,0:44:430:44:48) With shore Its own sand.0:44:480:44:50 Around its edge there is even a tidal line.0:44:510:44:55 But this is not possible, of course. This was underwater.0:44:550:44:59In fact, The flapping edge is created by a salty salted water soup,0:45:010:45:060:45:45:08:060:45:45:08:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45:060:45 thousands of boys.0:45:080:45:12That again, in the middle of a completely barren seabed, 0:45:140:45:18a Oasis wealth of life, completely independent of the sun's energy source this time is methane 0:45:270:45:32The foam came off the seabed.0:45:320:45:34 the sons carry special bacteria0:45:340:45:37m2 capable of repairing the energy of methane.0:45:370:45:40 Like hot vents,0:45:400:45:420:45:46 Bacteribactera.0:45:420:45:46 Bacteribactera.0:45:420:45:46 Dister squat and scarlet polychaete worms.0:45:510:45:57These oasis is called cold seeps0:46:060:46:09and has surprisingly similar hot vents.0:46:240:46:30 Expanding the fields of deep tubes, stretching hundreds of meters.0:46:380:46:38This new species also uses bacteria to repair energy from sulphides,0:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:430:46:43 worms are the fastest growing invertebrates in the sea.0:47:03:08but they seem to be much slower.07:08but 0:47:080:47:11 All other reasons to protect your bearing from amphibians bite.0:47:110:47:16The energy sources harnessed by the hot vent animals can suddenly fail But here life can enjoy a more stable geological future.0:47:230:47:28 Discover, within ten years, two new ecosystems0:47:320:47:36 are both independent of the energy of the sun, has been quite unusual.0:47:360:47:41So to date we have explored only 1% of the deep ocean floor.0:47:410:46People know what is still out there discovered? 0:47:460:47:49The waters of the deep ocean Very clearly it looks as if these images were filmed in a tank. where the pressure is enormous0:48:120:48:17to this thim It is a pressure that can kill a human being instantly. submersibles around the world can dive deep, then filmed remotely from the capsule (0:48:330:48:338eems almost impossible.0:48:330:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:350:48:35 Gulf of Mexico, it is used in the oil industry 0:49:00:49:04 to survey the seabed 0:49:040:49:06But on this occasion, Blue Planet cameraman Mike DeGruy 00:49:080:49:11 has was filmed a remarkable phenomenon that sent half a mile to the bottom of the sea He could hardly control his excitement. You are traveling on what's there, except for the odd fish, sea cucumber swimming go up to boys - a band about eight feet wide -0:49:270:49:31s what looks like a black hole.0:49:35You are literally floating on salt.0:0 49:350:49:38The submarine is trying to sink and it bounces off the top.0:49:380:49:42You can't get any lower .0:49:420:49:43Mike is describing a unique new animal community that was first discovered in 2013. 1990.0:49:50M a super salty lake under the sea0:49:500:4 9:53m which has never been recorded.4 It's an extremely dangerous place for unwary. This is interesting. Into the lake they go.0:50:030:50:05When they reach the top, they start gaping, rolling over on the side.0:50:50:11T I had a shot of a barely making it through. It must be full of dead animals.0:50:140:50:20It is a great place.0:50:20:21Mike's mission for his last dive is filming the filming of 0:50:230:50:20:25. creatures called deep tubes, live around airbags:50:250:50:30:30 seen from the seabed 1,000 meters down.0:50:306:50:390.50:42 All lights and cameras equipped and checked .0:50:420:50:42 Mike can do is hope everything happens at an altitude of 1,000 meters. The sunken vessels had enough power for six hours of work.0:51:090:5 One of the only sense they have that they're descending. 0:51:190:51:22-1-84 at an altitude of 600 feet.-Roger that.0:51:51:32By 500m, most of the light from the surface went 0:51:320:51:34 and strange creatures began to pass by 0:51:340:51:39 We were sitting at the bottom. Our depth is 17-55, 1-7-5-5.0:51:450:51:51:50 The temperature is seven degrees, the vision is 30-35 feet.0:51:500:51:57T I had the number to one tenth ... 0:51:570:52:00M under 500 meters, Creatures like this rabbitfish do this 0:52:020:52:05 exist in a world where daylight never penetrates.0:52:050:52:09Filming animals move with a submersible0:52:130:52:15 requires a lot of skill from Pilot,0:52:150:52:18 since it's very easy to disturb ancient allies on the

seabed.0:52:52:52:22 At least tube worms don't move around0:52:250:52:27and Mike has had a few hours to concentrate into high-quality images0:52:270:52:300:52:33First, the lamp attached to the manipulated arm0:52:370:52:39had to be positioned to get the right look.0:52:390:390:39 But the real challenge is the big close-up.0:5 2:440:52:47At high magnifications every small movement is very important.0:52:510:52:52:54Oh, it's beautiful.0:52:540:52:56Th the creatures this beautiful takes 200 years to develop This size,0:53:050:53:09and, for millions of years they have evolutioned in the deep sea,0:53:53:12 out of sight of mankind, until now.0:53:120:53:16More people who have walked on the moon than have gone to the depths of the deep ocean. David Attenborough journeys into the abyss to show us, for the first time, strange creatures straight out of the alien film, many of which are science nosies. Terrifying fish with huge teeth eat prey twice their size and exotic jellyfish flash in the dark. And deep-sea sharks never rotate before and engulf much larger mountains and volcanoes than anything on land. Get subtitles

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