## Jungle Breath

Ben Lucien Burman

THIS HAS HAPPENED. bidding jungle, comes an elderly Am-his forehead?" the girl, exchange mysterious signals, to hurry."

NOW BEGIN THE STORY CHAPTER III.

against the old mans' face, then hur- near here, and she hasn't any use for quick Portuguese. ried outside. Nunally followed asth- silly family fouds."

runner had caught up with them, but breath, we must be running." shell of its former self. He was clad 'the road and took a narrow lane which in grimy white linens but in strange led up the higher ground above the contrast to his tropical garments was stream. Their path grew constantly When Greenland neck, a stiff, unusually high collar. He hung down from a dark canopy of made no response to the genial salu- foliage overhead and like huge black tation Vilak offered, but taking a new serpents knotted themselves stranggrip on the straw basket in his hand, singly about the somber trees; swollen darted past, and disappeared round a brooks murmured in doleful, incessant bend. But not before Nunnally had chorus as they ended in the myriad glimpsed a curious mark on his pale tiny lakes and ponds which sparkled. white forehead, a selies of three small everywhere.

a moment and gazed after the other a lofty parasol pine a hundred yards mer times different from what it is the west coast of Greenland in Disko with a strong inclination to chudder, ahead, a motley group made up of now? How do we set about trying Island and in the cliffs and valleys of But resolved to imitate his compan-inegro laborers in muddy but brilliant to find out what sort of climates there the neighboring mainland are sand. ion's coolness, he repressed the im- packets or torn overalls, a few breech- were at different periods of the stones and shales, which were no pulse, took a cigaret and reached in clouted. Indians wearing huge straw world's history? In order to obtain doubt formed at a time when what is his pocket for a match he could not hats, and two or three gaping children facts likely to throw light on what now high ground on the western part find. "He looks . . . er . . . fantas- staring furtively from behind the has happened in the course of hun- of Greenland was the estuary of a tic. Quite fantastic. What's the mat- trees. Above them all towered one of dreds of millions of years before man large river. The river gradually built hill slopes are in places covered with ter with him? Is he white? Or is he the huge blue and red uniformed ne- came into the world, and therefore up a delta of sand and mud and, as

an interest in him naturally, because zenda. Not far away was a heavy he's a fellow-countryman, but particu- wooden clab. larly because there'd been a lot of bad | Vilak touched the arm of the huge blood between his father and her own, ebony gendarme. "The doctor, you Vilak rubbed the towel vigorously when old Prentiss lived on his fazenda have not called for him?" he asked in

stream which drained into the river . . cousin," he murmured. "Are you cannot all do."

on which lay the town. Around them | . . . er . . . in love with her?" the black greenness of the jungle, and clog up the machinery. The really Nunnally, who had joined him. he's by far the most interesting to use this as a short cut to town. Now fellows. . don't start talking again," he flashed "How long has he been this way,

Nunfally did not wait until the as the other's lips parted. "Save your amigos?" he asked. turned swiftly, to se the newcomer \ They sped forward again. For a of his cigaret. "Half an hour, threedashing behind. He was a man orig- short distance the highway skirted the quarters, maybe he is thees way, I pared. But when we look at collect the living plane trees; there are inally of commanding height and antiquated railroad paralleling the think. Eet is ver' strange how a hit herculean shoulders, but whose body, stream. A short distance farther on on the head have do thees. He ees as though by fever or other tropical was a siding on which stood a few dead an' he ees also alive." He shuddisease, had wasted until it was a battred freight cars. Here they left dered and crossed himself.

triangle, tattooed in thin black lines. The travelers rounded a tangled!

egoist," Vilak returned, "white as the through the onlookers who, with their earth and can be examined in quar- samples of the vegetation growing on lilies of Sharon. You'll probably be characteristic apathy, let him pass ries, in cliffs, in ravines and in mines the banks were carried by streams small flowering plants on the hills and interested to know that his name is without resistance. He stepped for and other places. Rocks are of many and buried as fossils in sand and mud. In the valleys which are free from ward. The excited Joao had told the different kinds and of many different The Greenland fossils are many of the summer, and some of ... Er ... Prentiss, the archæ- truth. On the ground, near a thicket ages; they are the documents from them broken pieces of fern leaves, them are well known friends at home, elegist who explored for the Museum of thorns, lay stretched the body of a measure the successive events which measure the successive events which served to enable us to recognize what the Challe ported the measure the successive events which served to enable us to recognize what the Challe ported the served to enable us to recognize what the Challe ported the served to enable us to recognize what the Challe ported the served to enable us to recognize what the Challe ported the served to enable us to recognize what the Challe ported the served to enable us to recognize what the Challe ported the served to enable us to recognize what the challenges the challe tural History and left a few years ago once a fruit peddler in Providence, make up the history of the earth. sort of ferns they are. The common-

The fravel's rounded a tangled bend, then saw a crowd

His cotton breeches were torn and quote in support of the existence of stained with mud; his hands and desert condition? In Cheshire, Worslightly pock-marked face were cestershire, and in some other dis-scratched and stained with blood; in tricts there are beds of salt-and other his scalp was a jagged red hole. Yet substances, such as gypsum, remindthough his body was rigid as a statue, ing us very strongly of deposits being seemingly in the paralysis of death, formed now in the Dead Sea and in his eyes were gleaming and appeared other very salt waters in dry coun-The old man had found the matches to express intense bodily anguish. | tries. It is important to note that To the queer little South American in the lining of his coat. "What's the! Near his outstretched feet, hand- these salt beds of Cheshire and Wortown of Porto Verde, in west central . . . er . . . matter with him? How cuffed to the gendarme and staring cestershire belong to the same period Brail, a town fringed by dark, for- did he get that . . . er . . . mark on sulkily at the ground, stood a heavy- of the earth's history as that which set man of the English colonial type, is recalled by the old grooved and erican, Lincoln Nunally. A beautiful; "Ask him, men cher, ask him. . . . who supervise the gangs that work storm-lashed granites of Leicesteryoun significant grant a small child drive past in several have. ... And been politely the mines of Kimberly or tap the rub- shire Some sandy rocks in various woman and a small child, drive past in several have. . . And been politely the mines of kimberly or tap the rub- shire some sandy rocks in various a chaise, and she waves to him. He knocked down for their pains. Can ber trees of the Congo. His face was parts of England, which also belong

sees two sinister looking men watch you run again for a little? We ought hard, like the faces of most of those to the same geological period, are who command in the primitive places made of small particles which remind-"In a . . . er . . . minute." The of the world; like Prentiss, he had tat- us by their shape of the well-rounded He recognies in the barber a fellow old man breathed heavily. "Horrible too marks. But these were on his arm grains in present-day deserts. Here, American, Vilaka West, known as looking . . . horrible. What is he and about them there was nothing then, we have an example of the way who was the young lady Nunnally had use it means and the vegetation which now who was the young lady Nunnally had "That's one of the things I'm inter- the tattooing such as is to be found gether different sets of facts, to re- that at one time—some millions of duces attractive flowers in the short Verde Development Co. and have sent ested in finding out. The natives be- on every sailor; a ship a howling construct the past: we feel spre that years ago—there lived in Greenland summer and lies dormant during the for him to get at the root of a mystery lieve he's the center of all the appar- monkey and a skull and cross-bones. during a certain stage in the past ferns which were members of a family long, dark winter period, is about as that has already cost several lives and ently diabolical thing which have been Vilak instantly recognized him as history of this country there were that in the course of ages wandered great as it could be. threatened their own. Vilak is work- happening. Elise has tried to talk to "Limey" Potts, Bargetta's long-time desert conditions where now there far to the south from Arctic regions, ing as a barber to conceal his real him and failed miserably. She took enemy and fellow-worker on the fa- is a typical English scene.

The gendarme grinned amiably and matically behind. They half walked, Nunnally glanced at him quizzically, thrust out his hands in expostulation. half ran down the road, along a small "You think very highly of your . . er "Deus; am I the Almighty God? I

"Pedros! Go to the fazenda of Senwere low hills whose slopes in a few | "Innocent, innocent as a babe. Wo. orita Marberry and fetch the doctor places were bright with coffee plants, men to a criminologist are an unmiti- quick." Vilak snapped to one of the but everywhere else were dark with gated nuisance. They arouse emotions bystanders he knew, then turned to They harried over a small bridge perfect detective should be born like should have known better than to despanning the stream. As they crossed, an amoeba, without father or mother, pend on these chaps. I could curse they heard someone running behind This way, he'd have no emotional tra. myself for dawdling the way we did them. Vilak turned. He pressed his ditions to affect his judgment. My coming out here. "Lift up his head." the first place, the plants Some of the fossil twigs and cones continents change the flow and direct ion over the frozen wastes. For Faircompanion's arm. "Take a good look position here, as most things are now. The old man obeyed. Vilak took the when this man passes," he whispered. adays, is a purely economic one. Elise rigid wrist and felt the pulse. "Twen-"You're having a privilege. He's the sent for me because it's getting very ty," he said in perplexity. "and get-American I mentioned to you. Doesn't difficultate hire labor at the fazenda; ting weaker all the time." He looked come to town very often. In this place Incidentally, it's toward Prentiss' toward a young peon whose face bore of picturesque and bizarre individuals, place we're heading. Elise's men often the sign of more intelligence than his

The native took a thoughtful puff (To be continued.)

## Was Tropical

Changes of Climate in the World's History

By Professor A. C. SEWARD

Is there good reason to suppose that period, from the Latin word Creta, The old man stopped to rest for bend, then saw a crowd clustered about the climate of the world was in for- which means chalk. Halfway along some . . . er . . . queer sort of . . er groes who form so large a part of the long before there was any written we see in our rivers of to-day leaves history, we have to search among the and branches of trees being swept the familiar heather of the British "He's white, white, you occidental Briskly Vilak elbowed his way rocks which form the surface of the along in streams, so in former times History and left a few years ago once a truit pender in the pender in th from the remains of animals and plants which they contain.

Deserts in the Heart of England Near the centre of England in the Charnwood Forest district of Leicestershire, there are low hills made of hard rocks like granite, which belong to a very remote epoch when there was little or no life. Some of the granitic hills of Leicestershire were once covered by softer material belonging to a later period and consisting of sandy mud which was originally spread out in layers as sediment from muddy water which had covered the country that is now Charnwood Forest. In course of time these newer layers of rock were removed by the action of air and water, by rain and frost; and parts of the buried granite were gradually exposed to view. In the hills thus exposed we have a glimpse of a very old landscape, a piece of the earth's surface as it was before the days when the mud and sand levelled the uneven floor of the older rocks. We can therefore form some idea of the state of the country which for long ages had been hidden. It was found that the exposed surface of the older rocks was smoothed and polished and in some places had been worn into broad grooves and rounded ridges: surfacefeatures which remind us very strongly of those seen on hard rocks in deserts of the present day, and produced by storm-driven blasts of sand. This comparison suggests that at ore period there may have been a desert In the region that is now Leicester-

But is there any other eveidence, are there any other kind of evidence, are

there any other facts which we can

Fossils as Thermometers

thermometers to enable us to follow it is now. obtained from rocks belonging to one are very like those of one of the big of the more ancient periods, such as trees in California, a tree which is any-that are now living; and though as Sequoia and is sometimes called by we can learn something of the con- gardeners Wellingtonia. This tree now ditions in which they grew by exam- grows wild only in California; but it ining their structure, we cannot say is certain that trees very nearly remuch, with any great confidence, lated to it once flourished in Greenabout the climate which they requir. land. There are also many leaves ed; they are too unlike any living preserved in the same rocks which plants with which they can be com- can be closely matched with those of know that there have been many such tions of fossil plants from rocks which leaves of Magnolia, and many other were formed during periods of the deeply buried under perpetual ice and earth's history nearer to the present, | flowering plants. Without going into we find a much closer resemblance to detail, it may be said that the maplants which are living now, and it is jority of the trees which agree most therefore safer to make comparisons nearly in their foliage with those with regard to climate.

When Greenland Was a Tropical

Country -Let me take as an illustration plants collected in Greenland: the rocks which furnished them belong approximately to the stage of geological history when our chalk was being formed on the ocean door; this period is known as the Chalk or Cretaceous

This unquestionably is the finest green tea 'Fresh from the gardens' 656

and eventually settled in Central and Let us next look at the fossil plants Archipelago, and farther to the East, of the earth's history since the days ice and snow. which have been found in rocks, es. several thousand miles away from its when life first became abundant, and THE CAMERA DOESN'T LIE. pecially in such rocks as sandstones original home in the far north. If there is no good reason for believing While they are framing circumspect and shales, which are simply beds of most of the living members of this that the world, as a whole, received notes to one another, Sherman M. sand and mud or clay hardened by family of ferns are now tropical, are much more heat from the sun millions Fairchild, still in his early 30's, goes pressure in the course of a long suc- we to conclude that, when very nearly of years ago than it does no. How, about the daily routine of directing cession of ages. It is common know. related ferns lived in Greenland, that then, can we explain differences in the varied aeronautic enterprises of ledge that in our climate it is impos- country enjoyed a tropical climate? climate between the past and the pre- which he is the head. sible to grow out of doors namy of It would be going too far to answer sent? It is impossible to discuss this High up in one, of Gotham's mono-

which have left traces of their existence in the rocks of Greenland are now living either in the south of Europe, in the Southern United States.

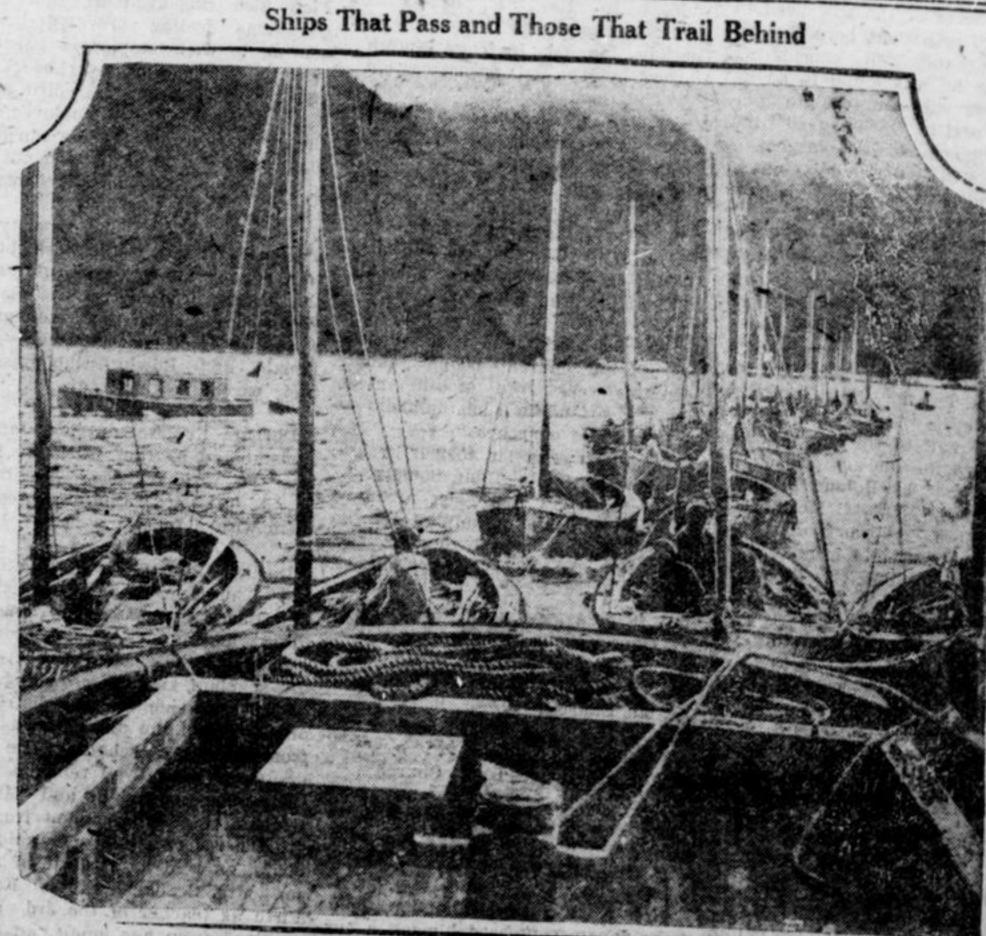
or in tropical countries. Greenland To-day Let us next look at Greenland as it is: by far the greater part of it is is practically destitute of life. During the short summer, in June, July and August, there is a comparatively where the fossils occur there are now their scattered fragments in the rocks Minard's Lin'ment for Coughs.

What Makes Climate Change?

tion of ocean currents which, like the child made these pictures possible. warm gulf stream and colder currents | As heir to the fortune of a million tain-ranges also makes a considerable birdman sees. difference in the climate, and we VALUABLE BEYOND EXPECTAuplifts in the course of geological his-

It is, however, hard to believe that sea and in the height of land above tions of its young originator. sea-level would make enough differ-





FOR THOSE WHO GO DOWN TO THE SEA IN SHIPS

The photograph here shows a portion of the salmon fishing fleet at Skeena, B.C., being towed out of harbor ISSUE No. 51-'29 by power boat.

Camera Aids in Antarctic Dispute

Inventor Tells How Pictures Will Map 2,000,000 Square Miles

BRITAIN'S CLAIM

New York .- A wealthy young New Yorker's hobby, now a valued instru ment of science, ma; play the decisive role in an international complication over Antarctica.

As Commander Richard E. Byrd's successful South Pole flight centres wide attention upon "the bottom of the world" and its commercial possibili ties, the prospect grows that Great Britain and the United States may come to diplomatic blows over the question of sovereignty there.

Statesmen on both sides of the At lastic, it seems, are alive to the possilility that fabulous deposits of coal, of There have been very many and and other minerals may lie buried South America, Africa, the Malay great changes in climate in the course beneath the Antarctic's centuries of

the plants sent to us from warmer the question by a simple 'Yes.' We difficult question briefly: we know lithic business buildings, remote alike countries; they must be grown in hot. can only say that the facts lead us that from time to time the land has from the cold of Antarctica and the houses. Can we then make use of to suppose that Greenland in the Cre- both risen and sank, places where mounting heat of diplomatic pique, he fossil plants as tests of climate, as taceous period was much warmer than there is now dry land were once un- is not unaware that the first acrial der water, and regions now below the photographs of the South Pole terrichanges in temperature in the past? With the fossil ferns are leaves and sea were at one time above it. Al- tory may determine whether Britain We can to some extent, but only par- twigs-of many other kinds of plants. terations in the position and size of or the United States is to have domin-

the Coal Age, are very different from often grown in our parks; it is known flowing from the polar seas, have a laize New York Congressman, Fairgreat deal to do with raising or lower- child devoted part of his patrimony ing the temperature of continents and to the hobby of amateur photography. islands. The gradual lifting up of The development of aviation turned land by some gigantic force acting on his thoughts aloft, to equipment that the crust of the earth to form moun- would accurately picture what the

Thus was developed the camera now in use by the United States military changes in the position of land and tained proportions beyond all expectaservices, and a science which soon at-Fairchild may not have had poten-

tial international consequences in mind when he suggested to his friend Dick Byrd that aerial cameras be included in the elaborate equipment he was assembling for his South Polar venture. Thinking of the advantage Byrd lost on his North Pole flight by having neglected so to equip himself. he foresaw only the scientific value of such pictures of Antarctic regions. From a mere adjunct to his exploit, Byrd's camera became an indispensable factor in it, for he relied on its lens to see for him many things which speed, distance or glare rendered invisible to him and his three companions as they sped from the Little Am-

erica base to the pole and back. OPERCOME SNOW'S GLARE.

"Our experience with aerial photography in other sub-zero territories enabled us to supply Byrd with the best possible equipment for his South Pole undertaking," Fairchild explain-

"To a stock K-3 camera, standard with U.S. Army, we added a blueminus filter to eliminate the excessive glare of the snow-reflected sun. We lined the camera with balsa wood as

era's focal plain was 2,800 square miles. Of this, however, perhaps only 300 square miles in the foreground would have any useful detail. With 660 expostures, which Photographer Ashley C. McKinley was believed to have taken, this would give Byrd camera coverage of 1,848,000 square miles of Antarctica.

"Pieced together, these photos will constitute a huge pictorial mosaic of the regions over which he flew. In a stereoscope, they would be lent a third dimension, bringing into accurate proportion every minute elevation of the terrain."

It is this close-knit patchwork of air views, revealing topographical features beheld neither by Byrd nor the British adventurers who went before him, which would be of inestimable value in estalishing or discrediting t cir rival demands. Byrd already has officially claimed for the United States two vast ranges at the edge of British-claimed territory.

On Vulgarity

"To me the paramount test of vulgarity in any person is the way in which that person treats his in-

feriors," writes Beverley Nicho's in the Christmas London Magazine. "If a duchess is rude to her maid, even in the privacy of her own bedroom, then that duchess is a vulgar woman, though she may trace her ancestry to the remotest beginnings of history. If, again, an employer is rude to his office boy, and takes advantage of his position to make sarcastic remarks about him in front of his clients, then that man is a vulgar man even if he holds an entire dustry in the palm of his hand.

Christm

Artificial Mrs. Maughtee Day and I want snowballs for ! throw at you."

edly, "which

flower pot," she sale