Twining was halfway down th

poop ladder before he could govern

He said nothing to the men excel

"Some of the men are ready

chuck in their hands now!" said

"I'll agree it's hard," returned

tons even while stretched there mo-

labout when he planned every move he

his voice enough to respond:

"Aye, aye, sir!"

BEGIN HERE TODAY

Alden Drake, formerly a sailor, grown soft and flabby through a life of idle ease, ships aboard the clipper Orontes as "boy," under the command of Jake Stevens, whose enmity he incurs because of a mutual love for that they were to have their dinners Mary Manning, daughter of the owner, who is a passenger. At Cape Town, Stevens is superseded as captain by Drake, whose lawyers have seen to the purchase of the Orontes during its cruise. Stevens is reduced to the rank Adams. "Break out cargo in this of chief mate. Answering Mary's plea, heat? Have to do it. I suppose. Jake starts the Orontes through the Old Man knows his business. It's Straits off Java, where the ship runs damned hard, though. I don't believe aground. Mary persuades lke, the the ship can move before spring tides. steward, to take her ashore.

Twining. "But if Captain Alder NOW GO ON WITH THE STORY The clacking pawis ceased. The Drake says he can move the ship, I men screamed sweat. Even fat little won't believe it impossible as long as Joe Bunting wheezed horrible pro- he cyrries on trying. I'm waiting to fanity as soon as his vocal powers so him set sail and back her off yet. were relieved of the necessity of bawing Stevens Statched the last sailor ing encouraging chanteys. Strain as carry the last mess kit into the forethey might, they only made the hine- castle. Then the Doctor shambled aft, inch coir hawser twang and stretche cursing, taking off i.is filthy apron

"Even th' bleedin' nanchor don't and turning it before entering the drag come to give us a rest!" he saloon door. The great hawser stretchwheeze ... Some of the men were less ed taut as a harpstring along the desk, considerate of the skip. They agreed a man's height up, from the forecastle with Tubbs and Soms. All this back- head leads to the fair-leader on the breaking, beart-ricking labor was fu- poop. It quivered to the strong riptile. Some, those who most loyally ples of the fast ebbing tide. So terbacked the mates and little Jce Bunt- rific was the strain upon it that where ing, glanced darkly at the pacing fig- it entered the sea it was scarcely more

than onehalf its normal diameter. By ten o'clock the tide was full. All Possessed of tremendous elasticity the movable weight forward, except too, as that cocoanut fibre towing the deck water tanks, had been shifted hawser. It exerted a pull of many

"Try her now, Mister Twining!" tionless. Drake knew what he was cried Drake eagerly. Sullonly the men shipped their cap- had made. Stevens conceded that. But stan bars again. Every men in the Jake Stevens was thinking of many ship except Drake, Stevens and 'Erb things not concerned with coir cables and strains. First he must feed him-Oats put his weight to the bars.

"Heave!" wheezed Joe Bunting self, since neither mates nor men ten-"Oh, heave an' bust 'er!" It was use- dered him an invitation to eat. less starting a song. The ship must He lowered himself to the deck, and

Changes of Climate in the

World's History By Professor A. C. SEWARD

When Greenland

Is there good reason to sappose that the climate of the world was in former times different from what it is which have been found in rocks, esnow? How do we set about trying pecially in such rocks as sandstones to find out what sort of climates there and shales, which are simply beds of were at different periods of the sand and mud or clay hardened by world's history? In order to obtain pressure in the course of a long sucfacts likely to throw, light on what cession of ages. It is common knowhas happened in the course of hun- ledge that in our climate it is imposdreds of millions of years before man sible to grow out of doors many of came into the world, and therefore the plants sent to us from warme long before there was any written countries; they must be grown in hot- to suppose that Greenland in the Cre- sent? It is impossible to discuss this history, we have to search among the houses. Can we then make use of taceous period was much warmer than difficult question briefly: we know and a smoke. He saw them troop rocks which form the surface of the fossit plants as tests of climate, as it is new.

> plants which they contain. Deserts in the Heart of England-

hard rocks like granite, which be with regard to climate. long 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 insome places had been worn into broad grooves and rounded ridges: surface. features which remind us very strong ly of those seen on hard rocks in de serts of the present day, and produced by storm-driven blasts of sand. This comparison suggests that at one

But is there any other eveidence, are there any other kind of evidence, are there any other facts which we can equote in support of the existence of desert condition? In Cheshire, Worcestershire, and in some other districts there are beds of salt and other substances, such as gypsum, reminding us very strongly of deposits being far to the south from Arctic regions, great as it could be.

period there may have been a desert

in the region that is now Leicester-

grains in present-day deserts. Here, then, we have an example of the way Was Tropical in which it is possible, by plecing toconstruct the past: we feel sure that Dinring a certain stage in the past history of this country there were desert conditions where now there is a typical English scene.

Fossils as Thermometers

Let us next look at the fossil plants

When Greenland Was a Tropical

Let me take as an illustration plants collected in Greenland: the rocks which furnished them belong it is: by far the greater part of it is approximately to the stage of geologi- deeply buried under perpetual ice and cal history when our chalk was being is practically destitute of life. Durformed on the ocean floor; this period ing the short summer, in June, July is known as the Chalk or Cretaceous, and August, there is a comparatively period, from the Latin word Creta, narrow strip around the coast with which means chalk. Halfway along little or no snow, where flowers are the west coast of Greenland in Disko abundant. In that part of Greenland Island and in the cliffs and valleys of where the fossils occur there are now the neighboring mainland are sand no trees, onl stunted willows and the stones and shales, which were no dwarf birch growing close to the doubt formed at a time when what is ground and rarely reaching a height! now high ground on the western part of more than two or three feet. The nical display from a parachute, are as a regular and reliable habitue. One of Greenland was the estuary of a hill slopes are in places covered with large river. The river-gradually built a regetation reminding us of our own up a delta of sand and mud and, as moorland, but there are no trees, and we see in our rivers of to-day leaves the famillar heather of the British and branches of trees being swept Isles is replaced by another member along in streams, so in former times of the heather family; there are many year aerial career. samples of the vegetation growing on small flowering plants on the hills and "I have heard pilots tell of battling The Greenland fossils are many of them are well known friends at home, writes the aviator in the December he may have three drinks on credit served to enable us to recognize what the Chalk period there was a rich to show me. When my senses tell me barmaid. widely spread in tropical countries by from the few which now grow in had flying in California. south of the equator. There are no Greenland. In a word, the contrast | "The ship-nosed into a big cloud at | A presentable individual at a night day. What does this mean? It means their scattered fragments in the rocks I could hardly see the propeller. The money and from a more or less casual years ago-there lived in Greenland duces attractive flowers in the short to drop off. Sitting in the cockpit was dismond stickpin as security. ferns which were members of a family summer and lies dormant during the like riding in a little bathlub a mile Not seeing the owner of the pin that in the course of ages wandered long, dark winter period; is about as above the earth. When I dropped out for some time the lender visits about as above the earth. Archipelago, and farther to the East, great changes in climate in the course several thousand miles away from its of the earth's history since the days most of the living members of this there is no good reason for believing

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

that from time to time the land has earth and can be examined in quar- thermometers to enable us to follow; With the fossil ferns are leaves and both risen and sank, places where ries, in cliffs, in ravines and in mines changes in temperature in the past? twigs of many other kinds of plants. there is now dry land were once unand other places. Rocks are of many We can to some extent, but only par- Some of the fossil twigs and cones der water, and regions now below the different kinds and of many different tially. In the first place, the plants are very like those of one of the big sea were at one time above it. ages; they are the documents from obtained from rocks belonging to one trees in California, a tree which is terations in the position and size which it is possible to follow in some of the more ancient periods, such as often grown in our parks; it is known continents change the flow and direcmeasure the successive events which the Coal Age, are very different from as Sequola and is sometimes called by tion of ocean currents which, like the make up the history of the earth, any that are now diving; and though gardeners Wellingtonia; This tree now warm gulf stream and colder currents Rolling a piece of white paper into a Geologists have classified the rocks we can learn something of the con- grows wild only in California; but it flowing from the polar seas, have a into several groups or systems, each ditions in which they grew by exam; is certain that trees very nearly regreat deal to do with raising or lowerof which represents, as it were, a ining their structure, we cannot say lated to it once flourished in Green- ing the temperature of continents and chapter of earth-history: these chap- much, with any great confidence, land. There are also many leaves islands. The gradual lifting up of of the pellet from white to red. ters are known as geological periods about the climate which they require preserved in the same rocks which land by some gigantic force acting on and are called by various names. We ed; they are too unlike any living can be closely matched with those of the crust of the earth to form moungather information from the nature plants with which they can be com- the living plane trees; there are tain-ranges also makes a considerable drops his handkerchief on the floor. the rocks themselves as well as pared. But when we look at collect leaves of Magnolia, and many other difference in the climate, and we As he stops to pick it up another man from the remains of animals and tions of fossil plants from rocks which flowering plants. Without going into know that there have been hany such -who is, in reality, a confederatewere formed during periods of the detail, it may be said that the ma- uplifts in the course of geological his. earth's history nearer to the present, jority of the trees which agree most tory. Near the centre of England in the we find a much closer resemblance to nearly in their foliage with those Charnwood Forest district of Leices- plants which are living now, and it is -which have left traces of their existtershire, there are low hills made of therefore safer to make comparisons ence in the rocks of Greenland are now living either in the south of Eur- sea-level would make enough differope, in the Southern United States, or in tropical countries. Greenland To-day

Let us next look at Greenland as

family of ferns are now tropical, are that the world, as a whole, received we to conclude that, when very nearly much more heat from the sun millions. related ferns lived in Greenland, that of years ago than it does no. How, country enjoyed a tropical climate? then, can we explain differences in It would be going too far to answer climate between the past and the pre-

blue sky and clouds. I had been flying upside down without knowing it. "Not long ago I tested a little plane about the size of a mosquito for a man the ground in the length of two tele; phone poles. It was so light that, when I stuck my hand out one side of the cockpit; the plane turned, just as a boat turns when an oar is held in the water on one side. By holding out a hand first on one side and then on the other I made a figure eight without touching the rudder-bar.

tween two towns, I lost my way; set the ship down in a field about the size of a handkerchief. But in barn-duped but prefers to lose his noney. storming a pilot gets used to landing rather than earn a reputation obeing on a postal card and taking off from a stamp, so I wasn't worried. But just before I tipped the trees a flock, of crows that had settled there was scared up by the roar of the plane's motor. The air became black. Adozen struck the propeller. It went to pieces, exploding like a firecracker. A black selling a man his own mone still blizzard of crow feathers blinded me. The motor choked dead. I shoved ahead on the stick and down we came in a pasture beyond the trees. In landing we almost milked a cow and redundant verbosity, offers an algedsat down straddling a barbed-wire ly gold watch for the modest pre of fence. But after I dug pieces of crow ten shillings, and entices an onbker out of the motor's air intake and put to hand up the amount, While thus on a new 'prop' the ship was ready to the money, and the purchaser he the

Flies Head-Down

In "Pea-Soup" Fog

Flying upside-down in a dense fog;

cutting figure eights with a light plane

without touching the rudder-bar; shat-

tering a propeller by running into a

old ship as part of a Fourth of July

the air was when I was barnstorming victim will not leave. with 'Nick' Almgrim in Ohio. We had tagged along an old 'Jenny' biplane "Here's the gold watch. I'll ut a that was born before the war. At solid gold, guaranteed lady's listlet last we got tired of having the flying watch with it, and this ten slings tumble eed around. So, at a Fourth on top, and the lot's yours for guld." of July celebration at a little town In almost every case the pugaser near Columbus, we gave everybody- passes up the 20 shillings (if it no including myself-the thrill of their other reason than that he wis to lives. We packed the old bus with get away.) It is not until Fgcts excelsion dipped in kerosene. I took his purchases home, and thir, the it up a couple of thousand feet, touch- matter over carefully, in the long ed a match to it, and crawled out with watches of the night, that he lizes parachute. Floating down, I had a that instead of getting the two stchgrandstand seat to watch the flying es, as he thought, for 10 shillis, he

Minard's Liniment for Distemper.

ISSUE No. 51-29

## Sharpers Reap Big Harvest in London

Oxford Accent and Stylish Clothes Help Swindlers Win Victims 1.1

OLD GAMES SUCCEED

London.-The gold brick salesmen of this city, finding that their wares and modus operandi are, perhaps, becoming rather too well known, have forsaken the old rackets and produced some brand new schemes.

The performers retain the appearance of well bred, educated men about town. Their accent is of Oxford, they sport the ties of famous schools or crack regiments, and even the most astute Cockney would not think them anything but real "toffs."

In the bar of a good hotel a welldressed man gets into conversation with some wealthy youths. When the party has progressed amicably for some time, and one or two rounds of drinks have been consumed, he offers to show his new friends a little trickpellet; he places it upon a table, covers it with a briar pipe bowl downward and states that he will change the color

A crowd is soon pressing round the removes the pillet from under the pipe, winks at the bystanders, and It is, however, hard to believe that bets \$20 that the trik cannot he do changes in the position of land and Many of the onlookers make the same sea and in the height of land above bet\_\_\_

"That's all right," says the trickster ence in climate to account for the connonchalantly. "Wouldn't take your trast between the present and the money." He then picks up the pipeand there is a red pellet.

PELLET HIDDEN IN PIPE

It was secreted in the bowl, and a slight tap in picking up the pipe dislodged it. The show of refusing to take any money is quite safe, for the confederate insists on paying, and the others follow suit-care is taken that the victims are that class of men.

What may be called the three-finger trick is almost as remunerative as the flock of crows, and setting fire to an foregoing.

The practictioner frequents a bac celebration and watching the pyrotech- for a few weeks, until he is recognized among the thrilling and unusual ex- day he tells the girl who dispenses periences of Randy Enslow, noted the drinks that he has left his pocketcross-country flier and Lindbergh's book at home, and suggests that she former barnstorming partner, who has lend him three pounds until the next flown more than 4,000 hours in a 13- day.

SIGNS MISLEAD GIRL

The girl replies that the manager's the banks were carried by stream in the valleys, which are free from up 2,000 or 2,500 feet through fog consent must be obtained. He then and buried as fossils in sand and mud. snow in the summer. and some of without using their instruments," goes over to the latter, and asks if them broken pieces of fern leaves, especially on the Scottish mountains issue of Popular Science Monthly, at the same time gesticulating with and some of them are well enough pre- and in the English Lake district. In "I'm from Missouri. They will have three fingers for the benefit of the

sort of ferns they are. The common- vegetation made up of many different one thing and the little dials on the . The barmaid sees her employer sigest agree very closely with ferns, kinds of trees and shrubs instead of instrument board tells me another, nal approval, as she thinks, of the known as different kinds of Gleichenia the low-growing plants of to-day; usually the dials are right. I've never loan of three pounds. The trickster which are members of a family now there were many ferns differing wide- doubted that after one experience I gets the money, and is never seen in that "pub" again.

Gleichenias in Europe at the present betwen the forests which are left about 7,000 feet. The fog was so thick club discovers that he is short of that at one time some millions of and the vegetation which now pro- wings disappeared. The tail seemed acquaintance borrows \$20, giving a

of the cloud I looked over the side eller, has the pin valued, and discovers

OBTAINS LARGER LOANS

The trickster later redeems the pin and repeats the performance with the same victim on several occasions. in the South. The tiny ship got off Then he borrows a larger sum, say \$150, giving apparently the same security. This time, however, he does not liquidate the debt and a considerable period clapses before the lender finds that the security he holds is a chean imitation.

Although these new catches are proving very profitable mang of the. old ones are still successfully wirki. "Once, while flying cross-country be- This is no doubt due to the refceice of the smart, worldly-wise citize, who does not publish the news whethe is

It is remarkable that year igyear out, the mock auctioneers waxatter and fatter. In spite of the facthat it must have caught thousars of Londoners and visiting firementheir old standby, the simple operate of

renders yeoman service. VICTIM BUYS TWO WATCES

The mock auctioneer, after uch watch, he proceeds in a leisure fa-"The craziest stunt I ever pulled in shion, safe in the knowledge the the

"Show you what I'll do," he outs.

has paid 10 shillings each for V

When people read they reason, and when they reasoling



HE STEADTHILY LOWERED HIMSELF INTO THE WATER

heroic effort.

lowering, dripping brows, shaking his island lay a cable length distant. head; beaten.

pound," he grumbled. And young argued loudly and rebelliously. Ste-Adams, knowing the man spoke the vens grinned, but without any pleasure truth, glanced along the deck at Ste- or amusement. It was the grim grin vens and at the sail locker door. He of an upright man about to do someknew how useless all this labor was. thing not quite so upstanling. It He thought he knew, anyhow. And was the grin of the outcast. Jake the coffee had been pretty bad. Adams Stevens felt his position intensely. He was ready to back his skipper to the knew he was neither master nor man, limit, as was Twining; but he was neither welcome passenger nor useyoung, and with the proneness of ful crew. He had no doubts whatever youth was likely to overlook a few that reaching port to him meant nothings in the heat of annoyance. He thing at all but loss of his certificate, watched Drake, pacing the poop, ap- and starting all over again. With parently only thinking up ways to every sinew of his powerful frame at further be-devil and bully-damn the tension, he stealthily lowered himself mates and the men. What Alden into the water by a rope-end, clutch-Drake was really thinking about was ing the dishpan in one encircling arm how he could get his ship affoat and until he could set it affoat. Then he on her way-to her port with least pushed off from the ship and swam

"Mister Twining!" he called out pan ahead of him. Twining responded briskly. Here was . He turned when he had almost word to quit breaking the men's hearts. | reached the rocks. The Doctor had Drake leisurely packed his old black not appeared yet. He grinned again; briar pipe, and as leisurely lit the and now there was a trace of satisfactobacco. The smoke was jetting free- tion in the grin. Jake had formed a ly when Twining appeared at the head splendid plan. If he could only win

same voice as he

to put buttons i

"Tomorrow,

slide fast enough to call for a song. for the saloon dinner were in the open formed now in the Dead Sea and in South America. Africa Af But to move her was a terrific task, oven. The Doctor was preparing the other very salt waters in dry coun-With muscles-cracking, the veins table. There were six lumps of boiled tries. It is important to note that swolling on the foreheads of the few salt beef, steaming greasily in a great these salt beds of Cheshire and Worswoning on the loreneaus of the lew sait beer, steaming street rations, cestershire belong to the same period original home in the far north. If when life first became abundant, and real workers, only the "Clack, clack, dishpan. They were extra rations, cestershire belong to the same period original home in the far north. If when life first became abundant, and cla-a-ack!" of three reluctant pawls cooked ready for certain cold meals of the earth's history as that which resulted. Mr. Twining straightened to come. There was a full bread is recalled by the old grooved and his agonized back. Mr. Adams almost locker. Jake dumped out the beef, storm-lashed granites of Leicesterfell forward at the expiration of his and selected the best piece. This, with shire Some sandy rocks in various two cobs of bread wrapped up in his parts of England, which also belong "Bli'me! I'm done!" panted Joe jacket, he replaced in the dishpan. He to the same geological period, are Bunting. Nick Coombs, silent hitherto, felt in his pockets, made sure he had made of small particles which remind but heaving with every atom of his his pocket knife, and then with a swift us by their shape of the well-rounded can only say that the facts lead us Minard's Lin ment for Coughs. tremendous arm and shoulder power, | glance along the decks he darted to glared with glassy eyes from beneath the ship's side nearest the shore. The

High voices could be heard from the "Ought to make everybody give 'is forecastle, where tired and surly men

swiftly towards the shore, floating the out of sight from the ship before the "Mister Twining, you may 'vast Doctor discovered the loss of the beef heaving for this tide." Twining's face and bread, he would scon be sitting brightened. "Let the men get their on top of the world. He scrambled dinners, give 'em a spell for a smoke, out of the water, and carried his then go to work and shift the water stores hurriedly out of sight beyond tanks aft." Twining's jaw dropped, the waterside, and crouched expect-His eyes clouded. Drake puffed placid antly. The Doctor's untidy head bobly, at his pipe, and ment on in the bed along above the rail of the Oron-Well Ike fes, going to the galley. Jake listened and watched. The Doctor reappeared

and passed back to the cabin. Ap-

atently he had been so intent upon

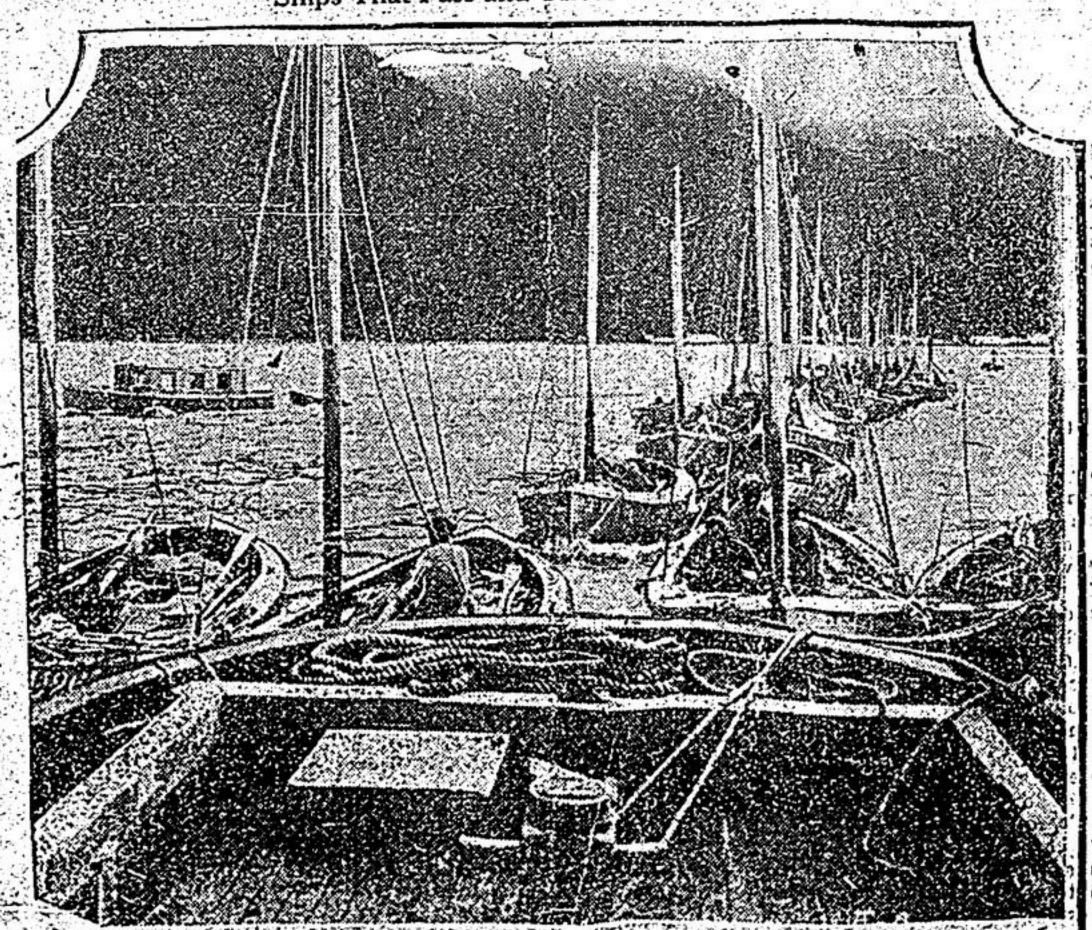
the loss of beef and bread.

cabin dishes that he had not no-

(To be continued.)

Ships That Pass and Those That Trail Behind

the question by a simple 'Yes.' We



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 by power boat.