Greenland Guards Geology Secrets

Though Depths of the ice Cap Have Been Sounded, a Vast Land Area is Unknown Fixing the depth of the Greenland mine at Ivigutt is not only one of the counters with enemies, and are become recentific group recently did by sonic depth soundings, has solved a puzzle occurs in commercial quantity. The which has perplexed investigators close the earliest days of Arctic exploration, writes Russell Owen, in the N.Y. Times. Greenland has turned out to be a rim of mountains encircling a right on the edge of a final and are right on the edge of a final and are right to the wind and are right to the wind and are right to the dege of a final and are right.

The known geology of Greenland The known geology of Greenand content with probably never has always been meager, as is natural exploited commercially, not only being a country of which only one-sixth cause of the meagerness of its ore desired to the country of which only one-sixth of the decire of the Denied Covern is not covered by ice. It is a much posits, but also because of its climate larger land than is usually realized, and the desire of the Danish Govern

In its southern part the mountains rise from the sea and fold after fold of them extends back many miles un-til they are overwhelmed far inland by the ice cap. But further north the inland ice pushes out more and more glacier ice ends and sea ice begins, Royal Canadian Mounted Police, formand where for many miles the entire erly known as the Royal Northwest coast line is ice, the mountains are Mounted. He is granted a pension completely hidden beneath the white with the rank of Major General, and crust. During the great Ice Age all of goes into private life with a distin-Northern Europe and also Canada and guished record of service in a unit the Northern United States were cor-ered with a vast shield of ice, which Colonel Starnes is succeeded as

by the mountain rim. It was not always a cold country; in fact, it was probably semi-tropical have been found, and it has coal beds which supply the local inhabitants. were much higher than they are now.

A Chain of Islands

sea, not always of great height, but and their record in the prevention and coming as they do directly from sea level they are most beautiful and imposing. Fold after fold they pass back into the interior until the ice swallows them, and tiny peaks, the tops of large mountains, peep through the crust as small snow hills or nunataks. Finally they also disappear and only the level ice is left before the traveler.

When the Ice Age came on the land valleys and did not melt. It was addwalleys and did not melt. It was addwould speak,
would speak, ed to year by year until the valleys filled and the snow overflowed the lower peaks. Under pressure it be came ice and then flowed outward through the fjords, making the glaciers, of which there are 200 in Green

"Only the man who has traveled for weeks day after day along the inland
lee without seeing land can rightly There came a voice, as it from hope appreciate the nature of the Ice Period," says Koch. "The first thing That called him strong and said that which impresses one is the enormous be was brave, dimensions with which one must reck on. The landscapes, which with their blg fjords and huge mountains seen so large from the sea, now lie far be neath the spectator as narrow rims o land, quickly disappearing, to give room for a perfectly even snow plain. A journey across this from north to south would be as long as from Copenhagen to the Sahara, and during this journey the landscape would not alter for a single instant. Nowhere would one see land; infinite as the sea lies one see land; infinite as the sea lies gilt with fires of day, the snow field, and life is represented White-misted was the weald; the neither by animal nor plant. the Sahara has its oases, between which men and animals move about: but here is nothing but snow—this is the region on earth most inimical to

What the Snow Shield Shows

An examination of this snow shield shows curious stratification, for even at such an elevation and latitude the sun is hot enough in the middle of the Summer to melt partially the surface, which immediately freezes again. forming a crust. Nansen found that under soft newly fallen snow there would be a hard crust, more soft snow and then again a crust, and then two or three feet down snow so hard that the sticks would not penetrate it. And at times, near rocky peaks close to the rim of the inland ice, small lakes form on top of the ley cap, and streams fun fro mthem down crevices or into ice wells, deep cavities into which the water falls hundreds of feet with a thunderous echoing roar.

But although the interior of Green rand is merely a huge ice cap, a pre historic remnant preserved by fortun-ate chance, there are some things in the bare and scoriated mountains of

The most important mineral in Greenland, however, is cryolite; the

to be a rim of mountains encircling a right on the edge of 1 fjord, and ap-bowl of ice. It is an anachronism, a parently the supply is sufficient to last survival of the Ice Age relatively close indefinitely. It is used largely in the

metallurgy of aluminum.

Greenland will probably never be for it covers an area of \$27,000 square, ment to keep out all influences which miles, as big as France, Germany, will harm the natives. It will remain, Spain, Poland, England and Hungary however, one of the greatest scenic put together.

In its southern part the mountains interest to release to release to the properties. interests to scientists.

New Head For "Mounties" Ottawa,-After forty-five years in the service Colonel Cortlandt Starnes until it becomes difficult to tell where has retired from the command of the

ered with a vast shield of ice, which colonel Starnes is succeeded as has left its traces all over the land. In Chief Commissioner by Major Gen. J. Greenland this shield remains, held in H. MacBrien, a veteran of the South African war and the World War, former chief of the General Staff, Canadian Department of National De at one time, for fossils indicating that fense, and still later president of the Aviation League of Canada.

which supply the local inhabitants. The retired Commissioner joined a very few days after the young leave the larger star has a peculiar specture and the north, were much higher than they are now. Advanced on most though all the The retired Commissioner joined advanced on merit through all the These mountains extend westward to Grinnell Land, and eastward they run as a submarine ridge across to Spitsbergen and then down through Bear Island to the north of Norway in the vast sub-Arctic region, and and form the Scandinavian chain maintain posts on the shores of Hudwhich continues through Scotland. So son Bay, in the Yukon, on Herschell Island off the mouth of the Mackenzie geologically to Europe. But all River, and on some of the Arctic is around the edge of the island the lands. They represent Canadian around the edge of the island the lands. They represent Canadian mountains rise majestically from the authority among the native Eskimos

The Two Roads

When he was young and days we full and bright, He came through every kind of youth ful fight

By winning well. someone came and whispered be

was weak. And so he fell.

When he was frail and bled by soi

And he was strong. —Cahal Bradley, in Songs of a Commercial Traveller.

Daybreak in a Garden eard the farm cocks crowing, loud and faint, and thin.

When hooded night was going and one clear planet winked: I heard shrill notes begin down the

When cloudy shoals were chinked and lawns were silver-grey; The lark his lonely field for heaven

had forsaken: And the wind upon its way whispere the boughs of May,

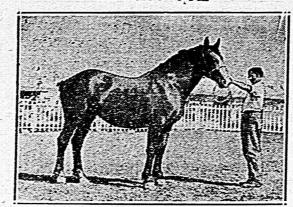
And touched the nodding peony-flor ers to bid them waken. -Siegfried Sassoon, in "Selected



Johnson-"Wasn't your wife lone some at that fountain resort while were spending your time fish-

ing for trout?"
Woodson—"No, she found a place where there was a splendid echo, and she enjoyed nothing better than to go there and carry on a conversation with it by the hour."

Win Honors ! Fair



Percheron filly bred by Canadia n Pacific Ry. experimental form at Tilley, Alta, which was reserve grand champion at recent summer exhibi-tion at Regina.

Bird Orphans Of the Wood

At this time of the year the woods and fields are full of young birds

They Never Forget
Birds and mammals which have many enemies usually rear a large number of young; the small insect feeding birds are very prolific, the tits have large families; in our garden we have had two broods of nine rear-ed, but a few days after these families left their nests, there were seen to be only two or three youngsters waiting on the trees for food.

The jays, magpies, and hawks are on the look-out for these baby birds by day, and as soon as they have gone o roost, another batch of enemies appear to drag them from their roosting

Dozens of these young birds will sit never make such a mistake again, and the next night will see it bidden cun. The analysis of their light shows the next night will see it bidden cunningly in a thick bush.

broods during the spring and summer: advanced on merit through all the look after themselves, and it is these ary hydrogen and belium lines of a ranks to the chief command. He had little orphans of the wilds that so of high temperature star, it has in additional acquaintance with all phases ten come to greif. The rooks, crows, the many lines of the enhanced ravens, and birds of prey rear one brood only, and when they take their young into the fields they spend weeks and sometimes months, in teaching their young all the wiles of woodcraft. Such birds survive longer than those which have had no training, and we find that the higher the bird is in the scale of intelligence, the fewer young

I have watched a cat stalking a haby thrush; the cat sprang, but only suc-ceeded in pulling out a bunch of tail feathers. That bird learnt a lesson that it would never forget, and I doubt f ever again it would allow a cat to

get near enough to spring.

If we examine these birds which

Clever Babes
The cleverest orphan birds, however, are the warblers, who remain a few weeks with their parents, then,

The young cuckoo has rather a try ing time after its foster parents give up feeding it; most young birds follow their parents after they leave the nes discover where their food is to be obtained, but the lazy cuckoo remains in one spot and allows other birds to wait upon it. The result is directly proportional to the distance of the last to itself it has little at the store. The measured intensity birds to wait upon it. The result is that when it is left to itself it has little idea where to find the insect food; however, it makes the best of a bad tance of 3,100 light years, an addition job and turns vegetarian, going back to insects when it has gained experience.—"Tit-Bits."

Finds Glass Starts Fires

Paris.-To the notices warning tourists of the danger of throwing down cigarette ends and matches in dry wooded districts should be added warning :hat bettles, even broke bottles, are the most disastrous of al causes of forest fires, according to Dr. Beroud of Marseilles, who has spen several years examining the origin of such fires in Southern France. Twent per cent. of the cases where no cause can be found for the fire outbreak, he says, may be safely attributed to a piece of curved glass from a broken piece of curved glass from a blonch bottle thrown away by picknickers of

These bits of broken curved glass can act as a magnifying glass, con-centrating the sun's rays and starting fires even more easily than could be started by cigarettes. In one case a man accused of incendiarism in the South of France proved his innocence by the discovery of a bottle end at the spot where the fire startedt.

Happiness
We may safely call that man happy who, however lowly his position, and limited his possessions, can always hope for more than he has, and feel to realize his aspiration.-Prof. Stan

Ster 40 Times Size of Sun is

Members of Massive Group, However, is Puny Beside The Binary System Masses

Nature, in making the stars, has no aken much liberty with their mass which, in general, are similar to tha of the sun. The sun weighs 2,000,000. 000,000,000,000,000 tons and this is taken as the unit for expressing the masses of the stellar bodies. Detailed investigations, however, show that stars of exceptional mass exist.

On the one hand, a few stars ar known with masses from one-tenth to one-twentieth that of the sun, while the researches at the Dominion Astro physical Observatory of the Depart ment of the Interior at Victoria P.C. have shown that the average star of the most massive group, technically known a: class O, is forty times that of the sun.

A recently completed spectroscopic study of the Dominion Astrophysical in prominent. places during the day observatory of a faint star named H. waiting for their parents to bring D. 698 in the constellation of Casslo-food, then, when night approaches, in-stead of hiding their plump young bodies among the thick-leaves of the tem consists of two giant suns of hedges, they just tuck their heads in-masses 134 and fifty times our sun. to their feathers and go to sleep, with separated by a distance of 150,000,000 the result that a passing owl is only miles, which revolve around one an too pleased to find such an easy meal. other in slightly less than fifty-six But if one of these inexperienced days. The orbital velocities of the youngsters manages to escape, it will two stars are 53 and 142 miles per

that the smaller component has a tem-Blackbirds, thrushes, and many perature of 25,000 degrees Fabranheit other species of birds rear several a volume of 135 times the sun, and is perature of 25,000 degrees Fahrenheit, intrinsically about 350 times as bright. metals, such as iron, titanium, and chromium, usually found in cooler stars. This (and the additional obrow) indicates that the density is ab normally low and that the star is an exceedingly large one. The computed volume is 3,550 times the sun, the tem perature 18,000 degrees Fahrenheit and the luminosity 1,400 times that o the sun.

In another respect the star is re markable. One of the important as-tronomical discoveries of recent years, in which the observatory at Victoria look a leading part, was that of an extended stratum of calcium gas per vading interstellar space and more or less uniformly distributed. The spechave lost their parents, we find many less uniformly distributed. The spec of them are cripples; some have to tral lines characteristic of this gas are carry on with one leg; the other has present in the spectra of all very disbeen taken in a trap, but having estant high temperature stars. According the start high temperature stars according to Eddington's theory they should be present in the spectra of all distant stars regardless of their temperature but heretofore there has been no ob-

servational evidence for the cooler stars. row's pain
And shunned the fight and would not face again
A hill so long,
There came a voice, as if from hope

with no birds to guide them, they launch out on a journey of three or four thousand miles, and in come mystorious manner actually find their way to the country their parents will reach the distinction of being the coolest star in which they have been detected. Thus the investigation supplies information which confirms Eddington's

Furthermore: the interstellar cal cium lines have revealed the distance of this unique system. According to al estimate is obtained from the mea surement of the radial motion of the intervening gas. The observed velocity corresponds to a distance of 3,200 light years. These different methods agree in assigning a distance of ap proximately 3,400 light years or more than 20,000,000,000,000,000 miles.



Bordenis CHOCOLATE ISSUE No. 36-

Owl Laffs

lege," boasted Windy Wolf of Pea Ridge, "because after all, education will not take the place of a husband."

Softly the leaves on the trees talked

theme: "Paint us, Jack Frost, in the latest and

gayest,
The tints of the sunset's red gleam.
Each goldenrod yellow, her color will bring,

from the butterfly's wing." But we need not all be alike, they

Round and round the crchard the?

danced, when Jack Frost the beauty of each 'id enhanced.

Called Average decen't know half the things he would like to know. Unavoidable poetry is the kind folks pay '- have printed. We can't recall ever having heard a soprano singing in such a way that her words could be understood; but then, we never remember feeling that it made much difference. Even if you can't tell a mother and her daughter apart nowadays there is little that you can't tell them together. The more ignorant she is of everything else, the better posted a gossip is on domestic affairs of everybody in the neighborbood.

> Reynolds-"Worry keeps me thin." Jenkins-"Joke, what on earth have ou got to worry about?" Reynolds-"I worry about getting

> Barber-"Your hair is very dry and arsh, sir."
>
> Voice—Culture Expert—"So is your olce, but I didn't like to mention it."

Hood-"I went to a spiritualist yes

Fankboner-"Any good?" Hood-"Ob, just medium."

Four new little sister?"

Joe—"Oh, she's all right, I guess;

To coin a phrase:, Richard Rich paid

"Harrell's Business School, in the Furman Building, announce the birth of a daughter, Carolyn, Friday, February 13th."

Christi for this pert item. MEOWI What are you writing?"

A young girl from Brushville says she hates to move away from her home town and lose the reward of all her hard work she has done on he boy friends. "They're not hard to get, but they're awfully flighty and hard to keep," she confided.

"I refuse to send my girls to col-

together, Early fall fashions and colors their

Matchless brown and crange take

Each chooses a color, some two or

They call a sailing vessel "she," not because her rigging is so expensive, but because she makes her best show-ing in the wind. There may not be much in a name, but some names have an awful lot of names in them. It's fortunate for the average man that he deeen't know half the things he would

Visitor-"Well, Joe, how do you like

but these are lots of things we needed

the bill so often the young folks all began to take him as an after-dinner

The following item is taken from a ecent issue of The Corpus Christi, Texas, Coller-Times:

This column thanks H. S. of Corpu

"A joke," said Miss Dove, "Ob," said Lizzie, "Give him my love."

Glenna-"Mama was right when she cautioned me about marrying you!"
Freddy—"Im sorry—and here I've
been thinking she never considered my happiness.

"Not a chance"

2. CHOICE BLENDS - Red Label & Orange Pekco

Counsel to a Young Sister Carry your head up, proud and high, Pattern your near up, proud and high, fhinking no goal unworthy of a try.

Pattern your life more from the higs I preach

Than from the noild my poor ex-

amples teach. Decide which path your toes should rightly take,

though it seems your tender Leart must break

Falter not once, but keep eyes straight aheadwoman is hurt if rese-thorns make her bed.

Should moments come with powerless ness rife, Think: "These are but the lesser .oves in life";

And if thy vestal reason chance to Remember! There's a man up in the moon!

Surrender not on earth, but know full well—
He is the only man who will not tell. -Eleanore Austin, in the New York

Chlorine Gas Escapes

Vienna.—A three-hour panic was caused in Leoben, Styria, by the escape of 15,000 kilograms of chlorine. The chemical was being transferred in liquid form from a tank car to a reservoir in the Hinterbeg paper fac-

reservoir in the ninterieg paper isc-tory when the pipe broke.

As the deadly yellow clouds pouted out workmen donned gas masks and endeavored to close the valve, but they were overpowered, eight collapsing i the attempt.

Three men in the factory fell up

conscious before the alarm could be sounded. Ambulance men in gas masks carried the victims to a hospital, but one of their own number col-lapsed despite his mask.

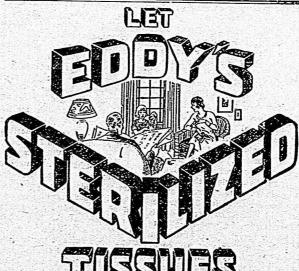
Two hundred women and children fled in panic from the factory dwelling homes into the fields. All dogs and cats in the neighborhood dropper dead and every particle of food was immediately poisoned; railway and road traffic had to be stopped for three hours until the gas dissipated.

LAMENT

Lamentation is the voice of grief out it is often counterfeited. -Mme. de Praslin

Night Club Sport (staggering out at 2 a.m.)—"Holy smoke, what is that strange smell around here?" man (courteously)-"That, sir,



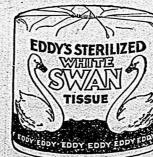


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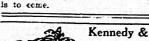
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REMNANTS

LBS. PEINTS, SILK OR VELVET,

LOSS OF TIME Let him who regrets the loss of time make proper use of that which





421 College St. Toronto Harley-Davidson Distributor Write at once for our bargain list of used motorcycles. Terms arranged.







SHE WORRIED ABOUT HER WEIGHT

"I started taking Kruschen Salts a month ago. I have lost 5 pounds in weight, and I feel as if I have lost 50 lbs. I am full of viger, whereas before I was worried about my condition, as I was listless and worried over little things. But I am thankful to say that, were my troubles doubled, they would not worry me to-dry—thanks to Kruschen."—Miss V. P.

Here's the recipe that banin'es? —take one-half teaspoon of Hausten Salts in a glass of hot water before breakfast.

Be sure and do this every morning, for "It's the daily done that there breakfast.

Be sure and do this every morning, for "It's the daily done that there off the fat."—Don't miss a norming Kruschen daily means that every particle of poisonous waste matter and hamful acids and gaser are expelled from the system.

Modify your diet, and take graffe exercise. The stomach, liver, kinteys and bowels are tuned up, and the pure, fresh blood containing these six salts is carried to every part of the body, and this is followed by "that Kruschen

rean proof containing these six sails is carried to every part of the body, and this is followed by "that Kruschen feeling" of energetic health and activity that is reflected in bright eyes, clear skin, cheerful vivacity and charming figure

Maternity Nurse Gives Advice



so much "I AM a maternity nurse. In my 42nd year I used to have a sick spell every two weeks. "A woman always seems to have some derangements at Change of

Life:
"The Vegetable Compound "The Vegetable Compound helped me so much that I recommend it to mothers and young girls as well as older women." Muz tugene St. Germain, 1604 Gladstone Are., Cote St. Paul, Montreal,

Stone Ave., Cotest. Faul, Montreal, Ouebec: If you have any weakness or pain, try Lydia E: Pinkham's Vegetable Compound: It has benefited 98 out of every 100 who have used it:

