Serious Thought.

CANTON OF TICIMO LIES HANDY Is on Italian Side of Alps and Well Worth Having-Austria Also Prepares to Forestall

Italian Aggression.

Nov. II .- "After Tripoli, what next?" is the question which, according to dispatches from Swizz correspendents of the German papers, is agitating the Swiss pross and public Italy's seizure of Tripoli, combined with the well-known aspirations of the Italian nationalists to unite the Italianspeaking portions of Switzerland with the Roman kingdom, is causing, say these dispatches, much discussion of the possibility that the little mountain republic may be a future object of the aggression of its southern neighbor.

Since the outbreak of the Tripolitan war various Swiss papers have pointed out the significance for Switzerland of this unexpected launching of hestilities and the seizure of a coveted province and have concluded from it the necessity of neglecting no steps to maintain at the highest possible efficiency the defenses and fighting power of the

Ticine Coveted by Italy.

part of Switzerland on which it is feared that Italy's eye may be turned is the canton of Ticino, on the Italian side of the Alps, known to thousands of tourists who have traveled ever the St. Gotbard railroad or visited the Italian lakes. 10s area is 1,088 square miles and its population nearly 150,000, practically all of them Italianspeaking. Like the southern part of the canton of Valais and the Engadine region of eastern Switzerland, it is marked upon the maps and colored post cards of the Italian Irredentiats (agitators for a united limitan empire) as one of the regions ultimately to be soined to Italy, but what has focused the vexation manifested in certain Italian quarters at the strong Swiss fortifications of the St. Gothard pass which dominate the canton.

A series of articles on the importance of these fortifications by an Italian gen-

France and none from Italy of the neutrality and integrity of Swins territory. A possible combination in the minds of the Swiss persimists is an Italian occupation of the Ticino, for which France would be compensated by the grant of Geneva, a town thoroughly French in language and sympathies.

Austria Fortifying Frontier. Not only Switzerland, but also Austro-Hungary, Italy's ally, is thinking of the possibilities of Italian aggression. Since the Austrian general staff the fortifica-

Now attention has been turned to the Stiffeer Joch, a well-known Alpine pass, situated at the junction of the frontiers this a fine carriage road leads from Italy every day. He is fonder of kites than to three feet thick. I took one into \$5,000,000. Nevertheless, Secretary Wil that the route passes for a distance of shaped monsters which he sends daily graphed beside it. It reached more than about eight miles across a narrow point toward the skies. He is not alone in the a foot above our heads. of neutral Swiss territory, but since the business. There are other great nations. These great kites are made of sticks construction by Italy of a fortified camp which do the same. Germany has its of straight-grained spruce, put together at the foot of Monte Umbrail and of a kite experiments, and so have France and in a skeleton forming two boxes with fort upon Monte Opa, both near the other countries. Of all the world, how- sticks between. The boxes have neither Italian end of the pass, and the exten- ever, Uncle Sam's kites have reached tops nor bottoms, but they are covered sion of the Italian railroad to Bormio, a nearest heaven. He has the record as a with the finest and strongest of cambric strong agitation has started for defensive high flyer. In April and May, 1910, he and are braced with fine piano wire.

measures on the Austrian side. Vineyards Produce Richly.

Moselle have just gathered their grapes South America and the loftiest of all is in the making of a new filament for an faction with the year's crop. When the altitude of E1,860 feet. The highest moun- bridles is manufactured especially for ories of the good old days of some ten feet above the sea. Uncle Sam's highest of an inch thick tightly bound in a years or more back, before the vine kite has reached a height of 13,800 feet cloth cover so that it forms a small yards were damaged by phylloxera, and his next highest was 23,100. Next rope five-eighths of an inch in diameter, worms and other pests; for this year to these flights the most successful has The elasticity of the rubber protects the sweetness almost without parallel.

is regarded as a very good result in considerably over four miles, and it is on foggy days. view of the continued failures of recent about a half mile higher than the top of The pull of these kites is enormous and grape juice are bringing extraordi- the highest of all recording weather sta- them, and the man who would attempt to per pound, and grape juice for wine making is sold at from 70 cents to \$1 on the sides of the Andes 13,000 or 14,000 which is wrapped around a roller and a gallon. The best juice at Bingen feet below. Misti is so high that no recled out and in by means of a powerbrought \$2.45 a gallon. There are reported to be the highest prices ever

Gas Made from Peat.

German makers of gas engines and chemists have been for several working on the problem of gasifying peat for use in gas engines. The solution appears to have been found by an establishment in Gorlitz, which uses the so-called half-water-gas process, earth that a man could hardly go there strand of it will support 200 pounds. You which is different from the Mond process and come back to tell the tale. The could fasten two of these gine pumps it into itself, instead of it the temperature, humidity and other upon them and be safe from falling being forced into it under pressure. This atmospheric conditions. It has a foun- Nevertheless, the wire is not as thick new method of generating suction gas tain pen which writes down the velocity is said to give five and one-half to six of the wind which blows it to and fro, that you can tie it like string. times the heat and power effect of Mond and it is equipped with other instru-The new process has now been in ments so fine and so complicated and operation for several months, with the yet so efficient that they make one remarkable result that yields as much think of a great flying brain which Unele power pound for pound from peat as can be created out of the best coal. This brain is kept in an aluminum box which discovery has an enormous meaning for Germany, where there are not less than 5,000,000 acres of peat lands.

One of the most common of blood diseases, is much aggravated by the sud- that of a baby. In fact, it is the hair the government makes its own hydrogen den changes of weather at this time of a woman's head, and one selected for and it has a great machine for the pur of year, Begin treatment at once with its fineness and strength. The hair is pose here at Mount Weather. Hydrogen Hood's Barsaparilla, which effects so treated that all the oil is taken out you know, is one of the two games with

40,366 Testimonials in two years, which prove its wonderfull efficacy in purifying and enriching the blood. Best for all blood dis-

# SWISS SUSPICIOUS OF ITALY Kite Flying One of Uncle Sam's Serious Pastimes FATVANISHES



WHIRLING HOUSE ERON WHERE KITES ARE FLOWN

County, Va.--I am

phere and the temperature and other

night watching the storms and calms

Uncle Sam, Kite Flyer.

the records of the heavens.

and the records carried away.

Flying Weather Bureaus.

These kites of Uncle Sam are flying

weather bureaus. They float on the

wings of the winds and explore the

might be called its skuil, and which is

I made a careful examination of one

of these kite skulls today and was

ment which tests the humidity is a hu-

it is not destroyed.

strata it becomes taut.

attention particularly on the Ticino is (Copyrighted 1911 by Frank G. Carpenter.) | that it will test the temperature from 40 OUNT WEATHER, Loudoun degrees below zero to 100 degrees above on the it. The thermomter in the kite that top of the Blue Ridge moun- reached the highest flight recorded a tains, 2,000 feet above the level temperature of 29 degrees below zero, of the Potomuc, at the foot and this was sent up from Mount of the George Washington Weather the 5th of August in the face eral has recently appeared in the Cor- monument, just about sixty miles from of the hoftest sun of the dog days. The Fiere della Sera of Milan, but Italian our national capital. This morning the kite that went up in April of that year, criticisms of the Swiss mistrust have Shenandonh valley was a great sea of reaching 23,100 feet, recorded a temperagather increased than diminished the zeal clouds and the Loudoun valley on the ture of 17 degrees below zero, so that. with which the fortifications are being opposite side was covered with mist as supposing other things to have been with a blanket. A little later the clouds equal, the difference of temperature in rose and in billowy waves seemed to come the 700 feet of these two kites showed a berger, professor of political science at to our feet. Yesterday there was a storm falling off of 12 degrees. The ink used the University of Zurich, maintains that and we could see it marching across the for recording such flights has to be Switzerland can expect little support from valley of Virginia. Today everything is carefully made and the oil which lubriclear and we shall fly some of Uncle cates the machinery must work down Sam's weather kites to test the velocity to forty degrees of cold. of the wind, the humidity of the atmos-

It is important that the weather selentists know the conditions of the upper qualities of the upper air. This is Uncle air, and the records made by these daily Sam's great weather experiment station. flights are telegraphed to the other bu-He has more than 200 other places at reaus all over the country as soon as the which corps of scientists sit day and kites come down,

How the Kites Are Made,

and predicting what the next day's weather will be. Mount Weather is During my stay here I have expurely experimental. Its business is to amined two dozen of these weather find out new things about the great en- bureau kites. They are not like the General Conrad has been at the head of velope called the atmosphere which is great paper shields with floating tails wrapped around the globe. It is doing which I flew in my boyhood. They are tion of the mountain valleys of the Tyrol this with all kinds of the finest of different from the dragon kites of along the Italian frontier has been car- meteorological machinery. It tests the China or the great aerial fishes of the ried on with unceasing energy until now changing temperature of the bowels of Japanese. In fact, they have no tails every connecting pass and valley be- the earth, and soars into the clouds with at all, and they are mighty boxes, It seems small for our great Uncle Sam erate-wind kite and the light-wind kite. damage was done. These floods caused to devote his valuable time to kite flying.

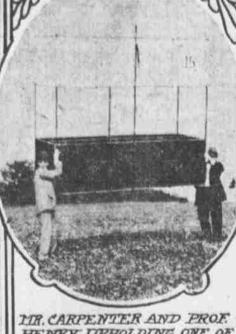
sent two kites each of which went higher Every bit of the kite is carefully studied. than the topmost peak of this hemisphere. Almost as much care has been taken in The wine makers of the Rhine and The highest of our mountains are in selecting the material as Edison takes near Boston, where the kite extended often waterproof, consisting of a mer-And the quantity harvested was only 15,800 feet above the earth. Twen- cerized silk, which sheds the water better

great observatory at Arequipa, which lies cord used here is the finest of steel wire, one lives there, but automatic instru- ful electric motor.

ments are placed on the top of the moun-The kites are flown from the kitetain and from time to time are visited house, a little building which looks like a Dutch windmill, save that it lacks the arms which excited Don Quixote and they flew about through the air. Inside atmosphere at a point so far from the I am told, is so strong that a single as a darning needle, and it is so flexible

Balloon Investigations.

In addition to the kites. Uncle Sam ha now a system of balloon recording of the weather! He makes ballooms of different Sam has sent aloft to explore. This kinds and sends them up at the variou stations over the United Satates to bring so protected that when the kite falls down records of the upper air. These are sent up from day to day, and the results are telegraphed all over the cour try. It is partially from them that our weather forecasts come, These balloon amazed at its workmanship. The instru- are filled with hydrogen of a which is difficult to obtain. Indeed, they man hair. Not a hair as coarse as that are only one or two places in the country of an Indian's, but as fine and sliky as where it can be had. The result is that radical and permanent cures. This of it and it records the changes in mols-great medicine has received ture by its expansion and contraction. The oxygen has to be taken out and only When it strikes a rain cloud it loosens the pure hydrogen left. This is done b and when it reaches the dry upper means of electricity, the machine for th purpose having been imported from And then take the thermometer. This Switzerland. The hydrogen is stored in works also by expansion and contract little round cylinders, each about In usual liquid form or chocolated tab-lets known as Sarsatabs. 100 doses \$1. tion. It is a little metal bowl with a thick and long as the leg of the average



HENRY OPHOLDING ONE OF ONCLE SAM'S BOX BITES



UNCLE SAM'S NEW WEATHER EXPERIMENT STATION ON TOP OF BLUE RIDGE MOUNTAINS

he upper air it finally reaches an alti- formingtude at which it bursts. It carries with it one of these boxes containing the fine Instruments. This is attached to the with the water in the air and with the parachute, and for this reason it falls clouds. He makes two charts. One of so gently that the machinery is not in- these gives the humidity or water in the jured. Attached to the box and also to air at various places. The other shows the box kites are pieces of writing, which where the clouds are and which way they state that a reward will be given to any are going. one who will send the box to the nearest

Fifty Million Dollars a Year. It is estimated that the weather fore the air of certain parts of the About a month later another great storm struck the mouth of the Rio Grande, and in September there was a third on the Louisiana coast. Just about a month after that a hurricane was felt at Key West. All of these were very dangerous, but owing to the warnings of the weather bureau no lives were lost. Indeed, it is said that by the advice of the bureau, 3,000 workmen were taken off the Florida East Coast railroad, then being extended, and thereby saved from injury and loss of life.

tween the two countries is closed by automatic instruments to bring down which soar and shoot through the air liar warnings at the time of the floods They are of different sizes and kinds. on the Missouri and Mississippi, during with profit. As it is now the bureau has advertising. There is the high-wind kite, the mod- which something like \$14,000,000 worth of The larger ones are about seven feet in the overflowing of a million acres of farm of Austria, Italy and Switzerland. Over but our patriarchal relative does that height, over six feet wide and from one lands and a loss in crops of more than into Austria. The pass has hitherto been a Chinese mandarin, and he has great the open, and Prof. Henry and myself, son states that the warnings of the flood considered amply defended by the fact laboratories filled with the finest of box- both of whom are fairly tail, were photo- saved property to the value of a million dollars or more.

Forecasting the Weather.

During my stay here at Mount Weather have been talking with Prof. A. J. Henry, the superintendent of this section, and with the other scientists here as to weather forecasts and as to the experiments they are making along such lines. Prof. Henry tells me some remarkable things about the winds and the changes which they have according to their altitude. The investigations are important in view of the aerial flights with unusual demonstrations of satis. Aconcagua, which kisses the sky at the electric light. The elastic cord for the now being made. In order to get the percentages 2,800 observations have been church bells tolled the beginning of tain in North America is Mount McKin- the weather bureau, and it consists of taken of the winds in various altitudes, the grape picking they awakened mem- ley, which is a little more than 20,000 thin strips of rubber about a quarter resulting in tables of value. The subject is too complicated to discuss in a popular way, except to may that there is an enormous difference in the winds according to the layers of distance above the hot weather and the long cloudless been one near Berlin, where in 1903 a kite from sudden gusts of wind by allow- the earth, and that each great storm is days were death to the insects, but kite was sent to a height of 21.320 feet. Ing it to take a smaller angle and thus a combination of many winds moving this caused the vines to bear grapes of a and next to that was a flight at Blue Hill, diminishing the pull. The kite cloth is vay and that, but in the general direction of the storm.

Dr. Willis Moore, the head of the somewhat more than a half crop, which ty-three thousand eight hundred feet is than the cambric. Such kites are used weather bureau, has recently published a most interesting book on the science of the weather. It is cutiling, "Descripyears. Owing to these failures grapes Mount Misti in Peru, where is situated No ordinary setting or cord will hold tive Meteorology," and it came from the ress of Appleton & Co. only a The best tions. That station belongs to Harvard fly them by hand might find himself sour- few months ago. In this he takes up all grapes are bringing as much as 45 cents college, and it is connected with the ing with them toward the clouds. The matters relating to the atmosphere and how our weather is made.

One of his chapters deals with forecasting and the making of the daily weather charts which are put up in the postoffices and public buildings all over the country. According to this we find that observations are taken every moraing at the 200 weather stations scattered made him imagine the mill a demon as throughout the United States and the West Indies, and that the pressure of this house is the real with about ten miles the air, the temperature, the humidity, of this wire wrapped around it. The wire, the rainfall or snowfall and the cloudiness at each of these localities is telegraphed to all the others. The weather which is different from the Mond process and come date and control scientists have maps of the United States with these stations marked upon them, tions there. The same is done here at Mount Weather.

Now, these men have been studying this business all their lives and, knowing what the weather is in other places. they can determine what that of their own locality will probably be. It is the ame with the specialists at Washington. where all the reports are handled in a livision known as the forecast division t the Washington bureau the work is vided so that one clerk makes a chart f the country showing the changes of emperature in the various regions durig the past twenty-four hours. He nakes broad red lines to separate the older from the warmer regions and grow red lines about those areas in hich the changes of temperature are

ore than ten degrees. How Storms Come.

Another clerk constructs a chart showng the changes of the barometer durthe ast twenty-four hours. He seprates the regions of rising and falling broad lines of red and uses narrow lines to enclose the areas where e changes have been more than oneoth of an inch. He has another set lines for those of two-tenths, and the ssult is that one can tell in just what

they are absolutely tight, and are shipped | parts of the country the barometer is become so valuable to the manufacturing y freight to the various weather sta- rising or falling. That is to say, just agricultural and other interests that they where it is cooling and contracting, and would be giad to have it more widely thus allowing the warm winds from spread. This is appreciated by the authose which are now being sent up are other sections to flow in. The barometer therities here at Washington, and conequipped with parachutes which extend charts give some idea of the storm cen- gress promises to be even more liberal in above them. As the balloon rises into ters and show you how the storms are its appropriations of the future

There is a third clerk who deals only

The last or fourth clerk makes what is weather station. For this reason the called a general weather chart, combinfarmers watch for the kites, and care- ing much of the information recorded by fully take them to the scientists when the others. This gives the air temperature and pressure at each station, the velocity and direction of the winds, the amount of cloudiness, and the rain or byreau saves to the people of the United snowfall, since the last report. The clerk Etates something like \$50,000,000 a year, then draws isobars or lines over the map This is 50 cents for every man, woman through the places which have the same and child in the country. It foretells barometric pressure, writing the word the storms, prophecies the advent of high in the center of the region of greatheat and cold, and gives you warn- est pressure and the word low in the reing of the cyclone or hurricane long gion of the least pressure. Air, like all before it comes. Last year we had a other things, moves by gravity, and it number of hurricanes, and the year be- flows from regions of greater pressure to those of less. It is by means of these was full of them. July 21. figures that one can tell just where the rain or not. Indeed, the work is beyond description interesting. It is also fairly correct. I have asked Dr. Moore what percentage of his weather predictions turn out to be true. He replied;

"We have figured that out to a percenting better as time goes on. The people should all be interested." appreciate us. We have many demands A great saving was made through sim- for new weather stations, and, if we had

FRANK G. CARPENTER.

How a Deaf Child

is Taught to Talk

Like Other Folks

(Continued from Page One)

as is best suited to them. As the classes are graduated year by year the oral classes will take one step higher, and when the last class taught under the last class stored to the Deaf will become a fully equipped oral school. President E. J. Babcock says: "The Nebraska School for the Deaf will become a fully equipped oral school. President E. J. Babcock says: "The Nebraska School for the Deaf will become a fully equipped oral school. President E. J. Babcock says: "The Nebraska School for the Deaf will become a fully equipped oral school. It is succeeded, I tried everything within reason and some things beyond reason.

It was maddening—disgusting.

All I had to do was to remove the cause, and I swear under oath, that by my simple method without drugs, medicine, harmful exercises, or starvation diet. I reduced my weight 37 pounds in the oral school. The same for you. I do not use medicine of any kind or worthless stuff to rub on the body, but a simple home treatment, town a child can use it without harm. Thyough this marvelous combined system has been graduated the Nebraska School for the Deaf will because I had found the right way. I had taken off 37 pounds of my ponder-oan now climb to the summit of Pike's Peak with earse, I could not do that until I had taken off 37 pounds of my ponder-oan now climb to the summit of Pike's Peak with earse, I could not do that until I had taken off 37 pounds of my ponder-oan now climb to the summit of Pike's Peak with earse, I could not do that until I had taken off 37 pounds of my ponder-oan now climb to the summit of Pike's Peak with earse, I could not do that until I had taken off 37 pounds of my ponder-oan now climb to the summit of Pike's Peak with earse, I could not do that until I had taken off 37 pounds of my pounder oan now climb to the summit of Pike's Peak with earse, I could n 1998, the Galveston hurricane occurred. winds will go and whether they will make if given proper support. We hope that per year, which would be \$1 for a mother age and we now know that we are right and father. We parents have a common in about eighty-eight times out of a hun- interest, and if we get together we can dred. This has been the average for the accomplish a great good for our children last ten years, and I think we are grow- and all other deaf persons, in whom we

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called it obesity; others referre to me
as being STOUT, but I know it was just
plain bulky weight. I was miserable—
you too, are equally miserable if you are
too stout.
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the cause, you must get at the very
reason.

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