DEADLY STORMS

Paths of Destruction Left by the Great Hurrican es.

We near the end of the season of the West Indian hurricane. No other atm o pheric phenomenon takes so large a toil ofs human life and destroyes so great an amount of property. The tornado switt and terrible, and its passage is the path of slaughter, but it is a rare visitor; its range is soon spent, and the area of (evastation is narrow. On the other hand, the burricane is periodical; the swath it cuts is 1 500 2.000 miles wide; and at the height of its fury, as at Galveston, it slays its thousands where the tornado kills it tens. Finally, the tornado is often a byblow of the burricane. It rides on the wings of the greater wind, and attend; it as tamine or pre ilence attends war.

A few years ago these vast storms were technically called cyclones, though that term was also and erroneously employed to designate the small, whirling storm born of the little black cloud no bigger than a man's hand, which is properly speaking the tornado. Why the name ha been changed is not clear; perhaps because the word hurricane has a more territying so und than cyclone.

Originally the term burricane was applied to storms of the West Indies, just as typhoon was associated with storms o the East Indies and the China Sea. It is purely a local designation. Now, it is used to designate all those wide spread atmospheric perturbations which move up from the region of the West Indies. involving part of the continent of North America and the Atlantic Ocean.

The burricane sesson is from July to O noner, melunive. Extensive eterms forming or moving over any part of North Am erica at other seasons would be called ercloses, or areas of low pressure, although the might be as severe as most huirrcanes.

Lae West Indian burricene originates or develops in the southern region of the zone of casterly trade winds, generally east of othe Wandward lelands, on the border of the Torad Z ne or equatorial belt of calms, which ranges close to ten degrees north ! tate. The belt of calms, or doldrums, as the are frequently called, extends in Augnot and September from three to eleven degrees north latitude on the Atlantic occan and from seven to ten degrees north latt use on the Pacific Ocean.

Ta - formation of West Indian hurricane is not fully understood. The information at h nd, which forms a summary of the study, would show that these storms may be days or even weeks in forming; gathering in excessive moisture over a central region of excessive heat, thus gradually reading the atmospherers pressure in the vicinity. Toward this centre the surface to lower stretum of eir starts to move from all points, and, being deflected, sets in peration a spiral inward and upward motion, the movement eing always from m, bt to left.

Similar atorma in the southern hemisphere rouse from left to right. In excessive mostore carried by the upward flow of wind is concerned, the strong heric pretsure record d. clouds are farmed and heavy ran results, thus became a great amount of leat u i z d in the process of evapora-

The infl wing an comen's blow brizontally, with ircreasing time as they approuch the centre, gradu lly charging to a virtical motion, and, when findly near f e centre, to an upward epical m. ion With the increasing torce or spiral upword motion at the centre the inflowing dorn nt at the surface becomes more marked unil a vast region of air is brought under the i fluence of an emb yo harriane Time is an upper bor zontal fl wet air form these disturbances which carries w h ! cings clouds Trese spread to in . vince and are the forerouners of the approa bing storm

S versl bours before these price ser reach the eye of the observ r the s'masp here becomes viry quet ant Liz O en almost a dead calm ex se. The br e ter begins to rise and all concisions pinto a period of fair weather. This is le u of the statm moneter to receive the unwary shipmaster The occas's shores ere lined with bones at ships that tack no warning from that bright, dead colm on nising barometer. The experienced mer iner in the tropical and send-copical resa become uneasy keeps his weather eye on pays close need to his glass and his ni randy for an emergency.

Soon the mir ret mer sightle t z Far alor the fling scu. of the 1 while circus clours streams up to the z mih A surice b . z spring up. m .ving on the opporte cir ction tom the flow of spreading clouds. The bieze to bei w drawn tow rd the centre of the impendi sto m. The stind wine up; t e par apter begins to rag, and presently bla P clouds larken the borizon and the herrcane is in sight.

It is not long after the rotary motion of the central column of warm air sets in that the storm moves from its place of forms. tion in a westerly course, contrary to the movement of storms in a more northerly latitude. The westerly movement terminotes when the storm centre reaches the neighborhood of twenty five or thirty degrees nor h latitude and comes within the influence of the prevailing south and west winds. It then recurves to the

The recurve may bring the centre in the n-ighborhood of the west Gulf, or possibly to the east of Florida in the Atlantic. The storm centre then follows a course nearly parallel with the Gult Stream and continues that course por heastward until beyond the region of observation It is now an enormous whir pool of wind, moving north ward at express train speed, sometimes taking not more than twenty four hours in passing from the Gulf of Mexico into the North A lantic.

In some cases these storms pass inland over the Guit States to the Great Lakes and then out the S Lawrence Valley. losing torce in travelling overland. It is seldom that they retain their power it the storm centre passes inland to the west of th Mississippi River They display their worst elements of wind and rain on or near the coast. They apparently exusuat them selves before passing any great distance in and, and become mere a mospheric depressions until they reach the Lake Regions, where they are supplied with moisture and retain some of their former energy and pass out the St. Lawrence Valley or over the New England Sa'es to the Atlantic coast with considerable force. There is no port on the Atlantic coast that has not its roster of missing ships, victim of these great disturbances.

Hurricanes are characterized by v ry heavy rainfall and great wind viol nee. Their greatest force is experienced before they recurve to the northeast. After this they increase in diameter and their force is accordingly diminished, but extends over a larger area. Their progressive motion is somewhat increased by their conformation, being broken in passing over the land Over the ocean they retain their circular form, but their advance is slightly dimin ished by a greater rotary force.

Wind velocities in well defined hurri enes may range from fifty to one hundred and fifty miles an hour; the higher velocit hes generally occurring over the ocean The diameter of these storms varies from a few hundred miles to fifteen hundred or two thousand miles.

The centre of disturbance or eye of the storm is marked by an extremely low atmospheric pressure. During the passing of the centre the barometer generally shows a slight rise, the atmosphere clears and there is a comparative calm. To all appearances the storm has passed. This condition may last an hour of two, when all of a sudden the wind which has been in this brief period idly shifting from one point to another blows a gale from a southerly quarter, then rapidly shifts to the west, and finally to the northwest.

The storm centre is passed, but the wind will probably blow with greater fury from the latter quarter than it did before the storm centre was reached. This gale from the northwest may last for hours, according to the rapidity with which the barometer rises. The faster it goes up the more severe will be the blow; but the sooner it will be over. Exceedingly heavy raintall marks the passage of these storms and covers a very wide area of country. The major part of the fall is usually deposited in the Southern States or along the Atlantic Coast.

The time of the autumnal equinox (on or bout Sept. 21) occurs in the season of liese severe storms, and this has probably led to the belief which has been steadfastly adhered to by many that a storm always occurs at the time of the equinox. Such is not the case. There is no scientific reason hat can be assigned for calling any storm an equinoctial storm; nor is there any reaon that can be advanced why a storm should be sprung upon us when the sun crosses the imaginary line of the equator ny more than when it crosses any other

g ven point going north or south. It is a scientific fact that storms have no novement over the equator, and nothing but heavy local rain is felt there; again h y bave never been known to cross the quator, going north or south, but rage with great fury to the north of the bound line of the belt of calms in the northn hemisphere and to the south of that in the southern hemisphere.

Besides the danger from the great wind ture attending the movement of hurricance the is a secondary element which is ly disastrous along the line of the ic coast. The wind for some time the storm centre approaches blows rived from the northeast for a great dis-

Dyspepsia

From foreign words meaning bad cook, has come rather to signify bad stomach; for the most common cause of the disease is predisposing want of vigor and tone in

No disease makes life more miserable. Its sufferers certainly do not live to cat; they sometimes wonder if they should

W. A. Nugent, Bellville, Ont., was greati troubled with it for years; and Peter E. Gaare, Eau Claire, Wis., who was so afflicted with it that he was nervous, sleepless, and actually sick most of the time, obtained no relief from medicines professionally prescribed. They were completely cured, as others

Hood's Sarsaparilla according to their own statement voluntarily made. This great medicine strengthens the stomach and the whole digestive system. Be sure to get Hood's.

tance over the ocean, banking the water up on the coast to considerable beight above the normal, inundating and destroying property and endangering life. These bigh tides may occur when there is no storm in sight. They have frequently visited the coast, giving the only evidence of a severe storm at sea, too far from land to be detected by instruments.

The serpentine course and erratic movement of burricanes make them very difficult, even for the most experienced and scientific forecaster, to predict Accurate warnings to mariners and people living slong the Gulf and Atlantic coast lines would be of incalculable value. Commanders of ocean craft cannot exercise too much care in navigating waters within the line of these sea monsters. E B DUNN

BREAKS UP

If your Cold does not yield promptly to the use of ' 77," slternate with a few doses of Specific No. 'O.se.' The effect will be

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Sac--! suppose you never met your efficity, Mr Olebatch ? H -- I don't know. One can't tell one's afficity except by mailying and then it

NEWS OF THE WEEK

York, to give bir 3.000 m'll operatives & Fell Rever, Mass., another five per cent raise in weges, may bring about a strike in the other mills.

The board of directors of the Pan American Exposition have decided the final closing , the exposition will be on November 2

Mrs L'zz'o Serioli was horrib'y murder. ed early Tuesday evering at Plymouth, Mae. ber body being found in the road.

The money and securities returned to the Merchants' Bank, Lowell, Mass. by Albert G Smith and Lewis H. Swift, through the latter's counsel, touched the million mark. The comptroller of currency at Washington has received a tele gram from Alfred Ewer, national bank oxemer, reporting that the bank's loss is about \$115,000 that the bank is fully sol vent and that there was no run upon it.

John Brown of Toronto, has received word from the war office stating that his son was billed in action at Steffelberg, Cape Colony, on Sept. 12.

Lord Strathcons, Canadian high commissioner, accompanied by Lady Strath. cone, Dr. Howard and Hon. Mrs. Howc d, will return to London in November.

Mayor Pretontaine of Montreal, refused the stilenzed investigate o Ald Clearibue's claim that an attempt had been made to bribe lim in cornection with the award to the electric ligh itrect. The Mayor [said Clearibue had neglected to make specific charges.

Lord K'tchener has wired to the war office for more mounted men.

The annual report of the Great Northein Railroad Company was given out Monday. The gross earnings for 1891 were \$28 350,689; operating expenser, \$15 843, 431; net earnin_s, \$12 507 268; taxes, \$969,642; income from operation, \$11,537 626. These figures shows a falling off in income for this lyear of \$1,504,786 from the figures of 1900.

The de ils for the execution of Czol gotz have been practically completed. It is believed the execution will take place before 6 c'clock on the morning of Oct. 28 or if everything cannot be ready on that day, at a similar hour on the 29th.

James D. Wood, who drew the capital prize in the Lawton land district at the El Reno lottery last August and settled a cleim valued at nearly \$50,000, is dead of typhoid fever, after a brief illness.

Dr A-Why do you always make such particular inquiries as to what your patients est? Does that assist in your diagnosis? Dr B-Not much; but it enables me to ascertair their social position and arrange



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RAILWAY. INTERCOLONIAL

Sale of Unclaimed Goods,

There will be a sale of Unclaimed Goods at the Fraight Shed at St. John Station on FRIDAY, the 1st November, 1901, commencing at 10 o'clock.

Catalogues can be seen at the Railway Catalogues can

D. POTTINGER. Railway Office, General Manager. Moncton, N. B., 11th Sept., 1901.

WANTED-A Large Wholesale House intends to establish a branch office in New Brnnswick and desires Manager for same. Salary \$150 per month and extra profis. Applicant must furnish good elences and have \$1500 to \$ \$2000 cash. Address Superintendent, P. O. Box 1151, Philadelphia Pa

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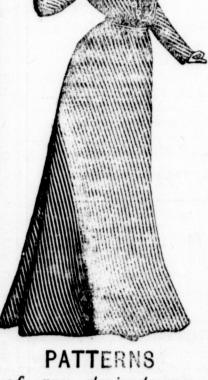
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