

## Republican Hds Bring Results

A Study of the Circulation of
Worid＇s Atmosphere．
FORCES THAT MOVE THE AIR． Contrasts In Temperature，High and Low Pressure and a Law of Nature
Called the Deflecting Force of the Earth＇s Rotation．
It is a matter of common observa－
tlon that when the wludow of a warm
room is opened on a stlll winter night

pheric clrculat
These currents
properly be
occur if
warmer and co
the atr withoo
The range in temperature between
the equator and the north pole amounts
tn winter to considerably more than
100 degrees $F$ ，and in summer the 100 degrees $F$ ，and in summer the
contrast is aiso great．Moreover，in
summer the continents are watmer

serve to illustrate how such contras
afrect the winds of the world．
ages about so degrees throughout the year．Consequently the lower air flows
in from reglons of high pressure on
each sise，forming what are known as
the trades．These winds cover nearly


The monsoons，or＂seasona！winds，＂
of India and the Indian ocean are the
ost titeresting of thetr maer the cooler oceann atr plassbes
toward the land，whlle e warmer al
over the continents rises to a consld en，forming a systemathe circulatid ter the ocean is and continent．In wing
wer than the con The＂lion．
The＂land and sea breezes＂occur water in some parts of the worlid $\operatorname{lng}$ the day and warmer the nilhnd．cau
$\operatorname{tag}$ on a small scale at dill ange of air s
the monsoons
发卷
is always $u$ ust balancing an a
column of alir of the same diameter，
reaching from the barometer to the top of the atmosphere．If tue to the is
dense the mercury will of course stand
 sure＂．when use the term＂tow tures
Over the Unitel
other
other parts of the world Canada and
Is ascertalined
thessure
 graphed to a a central point ard there
charted on a map．The exact regions
where the pressure is hist
may then thar tearned from at ach glance．It obervations
thastwars areas are constantly moring
eastw 800 miles per an average rate of about
Technicall are called＂cyelones＂pressure areas are called＂Cyclones＂and the high
pressure areas＂anticyclones．＂Tbey
are frequently Clameter．The ilttle storms of great
destructive force so often called cy－
clones are really tornadoes． The higher the pressure in any par－
ticular reglon relative to some region the greater will be the velocity
of the wind．The winds blow much
fanter thin cause the wireater thantrasts summer of tempera－
ture cause more declded Observations demonstrate，bowever，
that the wind never blows in stralght in mos，because all boties of air acted when nature called the＂dielecting force of
the earth＇s rotation．＂This force turns the northern hemlephere and to the left in the southern．
Thus if a wind in our hemlsphere starts north it is soon turned siowly
toward the northeast，or if it starts
west it will soon turn toward the that at the equator the eartitis is rotat－ willes an hour，one will not wonder that
sucis a delfecting force conld exist areas of hlych nnd low powld exist．All
whatever canse． whatever cause，therefore become thought will show that they must turn ern oposite directions，In the north－
hemisphere the low areas，or weather mep．always rotate in a dil－ weather mpp，always rotate in in a
rectlon contrary to that of the hand
of a watch．－Youth＇s Companton．

## a／t alfe earet

## eartrences in in temperan cause it to to become dense or heavy in some regions

it is the effort of the atmosphere to
overcome these pressure differences
and resume a state
ter telumn of mercury in a
go Inhale steam from a bowl of boll－


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