## THE EVENING NEWS. GEORGE Q. CANNON, EDITOR AND PURLEMER. iaturday, - - - February, 11, 1871.

UNIVERSITY LECTURES. ASTRONOMY. BY PROF. ORSON PRATT, SEN. LECTURE IV.

The Sections. - Subdivisions of the Ecliptic into Signs .- Precission of the Equinoxes. -Siderest and Topical year, -Revolution of the elliptic orbit.-Anomalistic year. - Geocentric and Heliocentric places of a Heavenly Body .- Earth's Mean and True Langitude .- Moun and Apparent tine .- Distributions of Temperature .-Hottest and Coldest days of the year .-Permanency of the mean annual temperature - Invariability of the earth's diamal and annual Periods. - Stability of the Lover of Motion .- Interior Temperature of the earth as affected by the Sum. - Ocean Tomperature.-Clause of the great Cur. rents in the Ocean. - Atmospheric Phenomena.-- Reflections on the Origin of Planetary Motion.

Tan first subject which we propose to investigate in this lecture is the Seasons. During the time that the earth performs one annual revolution, the inhabitants experiunder a variaty of seasons.

Tuose who live in the southern herris ph-re have their seasons in the reverse order the northern. December, Janu-February are their summer while here, they are our winter months; Their spring corresponds to our seir winter to our summer; their autumn to our spring. When the days in the northern hemisphere are the longest, in the southern they are the shortest; and when they are the shortest here. he longest there. From the list of the list of September, the sun

We shall next explain what is meant by the Geocentric and Heliocoutric places of a ithout any intermission on our north pole, while the south pole during that heavenly body.

night, are the results of the continual vari-stion of this angle, and the variation of the angle which the radius vactor makes with the earth's axis, is the result of the ob-liquity of the soliptic, combined with the marallelism of the axis is different points of the sorbit. The soliptic is divided into twelve parts, called Signs; each sign, therefore, contains 30 degrees.—These signs are reckened from The scliptic is divided into twelve parts, called Signs; such sign, therefore, contains 30 degrees.—These signs are reckened from the vernal equinox, and are called Aries, Txurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, Capricornus, Aqua-rius, Pisces. These signs are merely names given to the subdivisions of the colliptic, commencing from the actual equinox which is constantly shifting its position in respect to the fixed stars, retreating upon the ec-liptic westward at the rate of about 50.1 sec. of an are per annum. The signs of the additive or subtractive value. On the 11th of February the maximum amounts to 14m 33s additive. May 14th, it amounts to 3m 54s subtractive. On July 25th, 6m 12s ad-ditive; and on November 2nd, 16m 18s sub-

We have purposely deviated, for a while, from the subject of the seasons, to explain the nature of the tropical year on which the measure depend, and at the same lime to briefly police some slight variations in the

If the earth revolved, as we have also ex-plained, in an orbit whose plane was at right angles to the plane of the equator, the arctic and antarctic circles would be coin-cident with the equator; while the northern and southern tropics would reach to the poles. The two teo persts somes would cease to exist; while the torrid and friged somes would become alternately identical. order to complete one sidereal year. The time of describing this are is 20m. 19.9a. Hence the sidereal year is so much longer than the tropical year: the former is equal to 365d 6h 9m 8.5g while the latter is equal to 365d 5h 48m 48.7s. It is during the trop-ioni, and not the sidereal year, that our se-some come round in the same order. The longer suis of the elliptic orbit of the

comes to axist; while the torrid and friged somes would become alternately identical. Under these circumstances, the greatest ex-tremes of temperature, and the greatest variations of day and night, would exist, that could possibly take place by any change of the angle of inclination between the scliptic and equatorial planes. The present vegitable and animal economy could not endure the terrible extrames of temperature inflicted by such an order of things. The longer axis of the elliptic orbit of the earth has a slow motion of 11.5s per ansum in sdvance; that is, the perihelion advances castward upon the colliptic, that much in a sideresi year: this small arc, which is so much over a complete revolution, must be described before the earth can again reach

Were the obliquity of the ecliptic a little more than double its present value, may the perihelion point of its orbit. The time occupied in so doing, is 4m 39.7s; this added to the sidereal year, gives the interval beto the sidereal year, gives the interval be-tween two consecutive returns to the peri-helion. This interval is equal to 3656 6h 13:41 48.3a, and is called the Anomalistic Year. The receding of the equinoxes and advance of the perihelion upon the edilptic, are results flowing from the action of the forces existing in the solar system, and which we probably shall more fully ex-plain should we hereafter lecture upon the law of those forces. of night, during which only the upper limb of the sun, skimming our southern horizon a few minutes before and after 12 obstructed by the inequalities of the landscape. From December to the 21at of June the nights would decrease, and the days increase. At the atter period, the sun at noon would be 5° 50° north of our zenith; and 12 hours after, his lower limb would for, a few minutes, disappear behind our northern horizon; while his upper limb would continue visible that is providing

north pole, while the south pole during that time is enveloped in darkness. From the 21st of September to the 21st of March, the The centre of the earth is chosen, as a don-Under such extremes of heat and cold, the

south pole is constantly enlightened by the sun, while our north pole is left in dark-ness. The whole order of the seasons in the northern hemisphere is repeated in the the northern hemisphere is repeated in the the morthern hemisphere is repeated in the ble organizations of both plants and animals. The varied seasons bring with them their peculiar enjoyments, and seem to atimulate the higher orders of animated beings with energy, activity, and life, to provide for the periodical changes so happi-ly imposed upon them. While the monotony of an equable temperature and unchanging elimate would enervate or render dormant many of the instincts, energies, and powers, which now so usefully and beautifully adorn the vecesiable and animal kinedom adorn the vegetable and animal kingdon again to the south, then our seasons would have the greater possible change that could be given to them. The difference between the length of days and nights would increase with much greater repidity, and the sr-with much greater repidity, and the sr-with much greater repidity, and the sr-awinter would also be far greater. On odist of March the days and nights would the source to the solitor north or south of the source to the solitor north or south of solar rays as the source the flow sould decrease from 12 hours to 24, ills the nights would how frease from 12 hours to 24, ills t If we suppose the heat of the sun to be constantly the same, the quantity of heat received by the whole earth each day will nights would decrease from 12b, to From the 10th of May to the 2ad the same would not set to usubut has seen among our circumpolar stars, the same apparent phenomena i by those stars. About the 3nd i by those stars. About the 3nd i he mean and true places of the position it would a night would again set in, the which would now increase until f September, when the days and ald again be equal. From the 21st bar the langth of the nights would board is the longer will be the bright spot longitude thus obtained is called the mean longitude. As the arth's orbit does not deviate to any great extent from a circle, the true longitude does not differ to any face, is divided and subdivided and spread out over an increased area; therefore, the iemperature is diminished, as the surface increases; or in other words, the tempera-ture decreases as the obliquity of the solar rays increases. Apply this to the earth and it will be perceived that the surface of and it will be perceived that the surface of the torrid zone receives the solar rays in nearly a vertical manner, while the two temperate zones receive the calorific and luminous rays more obliquely. The heating power of these rays being distrib-uted over an increased surface, are propor-tionally weakened, and consequently the temperature is decreased. In the frigid some the obliquity of the rays is the great-est, and therefore, the cold attains its maxwould be such as to render our globe units for the habitation of man. At one season of the year he would be scorehed not only with a vertical sun, but with an accumulation of heat arising from the great length of the day; while at another season he would be expon-ed to all the severity of cold experienced in the polar regions. ber is less by 40° 55' than his altitude on the Sist of June. This is the principal cause of the cold of winter and of the heat of sumas the angle of this difference is called the equation of the outer. At the perihelion and aphelion points increase, places will coincide. From the perihelion to the aphelion the true place will be in givence of the mean; and from the aphelion to the aphelion, the true place will be behind the mean; and from the aphelion to the perihelion, the true place will be behind the mean. The greatest difference between the true and mean places, amounts to 1 deg. 55 n. 33.3 sec.; from this the e absence of the sun, or in the night, arth is continually losing its heat by i for. Sometimes certain some los temperature increases: at other times, dissipation of the heat by night exceeds an place, while the earth schelion to the aphelion. earth passes from the sphelion to the peri-It is a well known fact. 21at of June to the list of December its direction is nearly east north-east. In De-comber the earth, as seen from the sun, is in Cancer; while the sun appears in Cap-ricorn. It is evident, that while the earth goes must south-east from Cancer to Caprisern it must pass from the torth through the earth are in the sun inform, the sun will not, on the equinoctial about the list of Marsha In our passe means to the south the state of Marsin is the south of the set of Marsin is the south the first point of Librs, while the south to method of Arles, and the libro of the set of the se

requires nearly eight days longer to describe the 190° of longitude in the ap-helion part of its orbit, than it does to describe the remaining 180° in the peri-helion part, the amount of heat received during the tormer or longer period, will be exactly equal to the amount received dur-ing the latter or shorter period. The longer period includes our summer

The longer period includes our summer, beginning about the 31st of March, and beginning about the 31st of March, and ending about the 3rd of October. By this means, the intensity of heat during our summer is slightly modified, by being ex-tended over a longer period of time. Though the summer in the southern hem-isphere receives the same amount of tem-isphere receives the northern summer, set it isphere receives the northern summer, set it

and the second of the Though the summer in the southers summer, but is southers and mouth of the matchine and the origin of the supendou for the superson or center the same amount is about eight far as less and therefore it is concentred that have motions of eight far as less and therefore it is concentred that have motions of eight far as less and therefore it is concentred that have motions of eight far as less and therefore it is concentred that have motions of eight far as less and therefore it is concentred that have motions of eight far as less and therefore it is concentred that have motions of eight for the far and therefore it is concentred that have motions of eight for the far and therefore it is concentred that have motions of eight for the far and subject to the subject to the far and subject to the temperature of the sub-subject to the far and subject to the temperature of the subject to the subject to the subject to the temperature of the subject to the temperature of the subject to the subject to the temperature of the subject to t

higher temperature, or, as some have supposed in a state of fusion, it is very evident that it has in a state of fusion, it is very evident that it has led down to a state of equilibrium, in amount of heat annually lost by radi

Were the obliquity of the ecliptic a little more than double its present value, say 49° 15'. In our parallel of latitude we should have, in December, some two weeks p'clock at noon, would be visible, if not obstructed by the inequalities of the land-cape. From December to the 21st of June he nights would decrease, and the days tion of its annual period Either of these causes alo would overthrow and enti-adaptations and wise adjust ist between organized natu the seasons being made shorter would prevent the ate climates from ripening vegetables, berries, etc., o re and te two or three finish the fruits of the temper-ng: grains of all kinds, etc., could not come to egetables, berries, etc., etc., could not come to naturity, but would speedily perish by the sud-er alterations of heat and cold, arising from the bortness of the seasons. The intensity of heat.

> has not changed the econd; neither has the year varied its length nly within very small limits, which are known several Representatives, on grounds only within very shart in the period of the period of the mean year remaining ab httely unchangeable. The invariability of these periods depends up the stability of the laws of motion, one of wh may be stated thus: A body at rest continues that were telegraphed in brief this morning. The bill passed by the fol-lowing vote: yeas, 143; nays, 87. Schofield, from the committee on naval affairs, reported a bill for the anone direction, and with a uniform velocity, less its course or velocity is changed by force, see the stability of this law verified in the set constancy of the period of the earth's re-ton during some 60,000 revolutions on its a rislistment of three hundred additional seamen for the practice-ship Annapolis; The House then went into committee of the whole on the naval appropriaet constancy of the period of the excluse for on during some 60,000 revolutions on its axis ing that lengthy period its velocity has not in least been retarded. The same is true in re-tion bill. The committee then arose and reported the bill, which passed. and reported the bill, which passed. Adjourned. More particulars of that dreadfal Rail-

found wisdom and wonderful skill in the advantage ments of figures of magnitude, of 'proportions, of motions, of antagonistic forces, all combining to sustain the peculiar vegetable and animal economy adapted to these combinations. Who can but acknowledge the footsteps of Divinity in every part and in the whole? We wonder at the power and wisdom displayed in the working of this grand terrestrial machin-ery; but how much more wonderful is the origin ery; but how much more wonderful is the origin

within twenty-four hours thereafter he was taken, within thirty miles of the

CONCRESSIONAL.

SENATE.

emergencies, to pursue and capture the desperadoes and hostile Apaches. Our Prussian mission to a level with the Paris and London missions, and to fix the salary of the minister at \$7,000 and that of the Secretary of legation to \$2,-625. A message was received from the they never have done before, that they

In the evening session they took up behalf. The Mexican bandits avow the legislative, executive and judicial their intention to clear the Gila settletheir intention to clear the Gila settleappropriation bill, which, with several ment of whites. The members of the judiclary committee are contending that petit larceny is an infamous crime judiciary committee are contending that petit larceny is an infamous crime and therefore can only be prosecuted in

HOUSE.

NEW YORK.

The second discontinue results in the equatorial method as an elevation. Should the earth nearly fourteen the box down from the const of air would be two poles, leaving the lands in these regions annoches now elevated allowed in the second of air would in the new elevated allowed in these regions annoches now elevated as to be totally incapable and which are now at the bottom of the equa-ting to sustain life. Breard which are now at the bottom of the equa-ting to sustain life. Breard that we have thus far investigated, taining to this creation, exhibits the most pro-to of figures of magnitude, of proportions tain the peculiar vegetable at combines of in the rest of horses have the pole of agents of the equation of the equa-tion of an elevated at the set of sufficient the bottom of the equatorial the annot pro-to of figures of magnitude, of proportions tain the peculiar vegetable at combines of an elevated to the set of a combines and append to the rest of the equatorial the set of CHICACO TRADE. Importers of and Jobbers in FOREIGN AND DOMESTIC FRUITS, C. L. Bittinger. W. S. Walker.

CHASE, HANFORD & CO. Manufacturers and Refiners' Wholesale Agents Apaches. Sixteen mules were stolen near Florence and Gila City, and a hundred head of cattle at the same tor the Hale of TANDARD ILLUMINATING AND LUBRICATING place. This state of war is similar in OILS. WHITE LEAD, VARVISHES, GLASS, AXLE GREASE, PINE TAR, ETC., SI South Water St., Cor. Wabash Ave., Central and Northern Arizona, about Prescott. Representative men from all parts of the Territory are here attending CHICAGO. d67 6m SWEET, DEMPSTER & CO., HATS, CAPS, FURS STRAW GOODS, BUCK GLOVES, MITTENS, UMBRELLAS and PARASOLS,

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In the House, Stark weather reported will read strangely to all those States Iron Works, bill to re-instate W. H. Hanscom, late and Territories which seem to have

If the earth, therefore, ever was in a state Morton introduced a bill to raise the

but during the opposite time of the sun. This point is chosen as a con-vanishing point of reference, because it is not affected by the rotatory nor the orbitual

from wost to east, that ils, if the motions of the system. the earth's orbit coincided with the tion of bedies to the great sphere of the beavens concentric with the centre of the

sons; and also the days and earth nights over the whole earth would be of the sphere of the heavens concentric to an eye altuated in the centre of gravity of the from south to north, and back

The hallocentric longitude of the earth is south, then our seasons would

From the 10th of May to the 2nd

difference diministration

again be equal. From the 21st not described with a uniform metion, this the langth of the nights would rule will not give the true longitude; the when the soin would set and remain below the southern horizon about eighty days, or until about the 31st of January, when the day would set in being only a few minutes long at first, but increasing rapidly in length until the 21st of March, when day and night would again be equal.

Thus if the earth revolved in an orbit ne was perpendicular to the plane ator, the vicinsitudes of the sea-

the polar regions. If the carta should revolve around the sun in any othor direction, except the two that we have already mentioned, the difference of the seasons, and of day and night would be proportional to the inclination of the ecliptic to the plane of the equator, as the angle of inclination increases so would the differ-ences in the severity of the seasons increase. This inclination of the two planes is called the Obstruity of the Science is called the services of the orbit the man and sphelic places will coincide. From the perihelion ity of the Ecliptic, ' in. 30sec, of an are.

We shall peak point out some interesting connected with the earth's anor explain what is meant by the sodiac-the precession of the tropical aldereal and rs-the mean and true places in its orbit-and mean and apafter which we shall again nena of the seasons and

to the list of December its

afformity which now prevails We have as you only spoken of the surface ter arsture of the earth and its variations in d

mannee the interior is affected by the solar heat? It is evident that the whole amount of heat fail-ing on the earth is sol immediately reflected or radiated from its surface into surrounding spaces; but a portion is absorbed by, and slowly conveyed through, the solid materials of the in-tarion, pensetrating to deplus below and com-minging with the internal heat originated from the solion of the terrestrial elements within the solid not the terrestrial elements within. € 2,000,000 the torrid somes? Is it accumulated in some t reservoir, deep in the bowels of the earth, to ak forth some day in a mighty terrible con-ration, consuming this creation and convert-

globe is covered with water; the remaining ter is dry land. The dry land is mostly f the Northern bemisphere, while the S Northern hemisphere, while the counser, isphere exhibits one vast ocean of water grupted here and there by comparatively ill patches of land. Is transmitted through

becoming specifically upply the place of the surface, the adjacent the costinually ored by an under stion of the sun, the upper of sotly north in the Northern h

the guideent level of the see. It

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naval contractor, which was opposed by never made such a discovery.

STOLEN TIMES AN DESCRIPTION OF THE PLAN STORY FOREIGN NEWS.

accordance with the fifth amendment

to the United States Constitution. This

## FRANCE.

Armistice extended - The elections -Preparations to enter Paris-Affairs in

There is great mortality among child road Accident-Narrow escape from

The lightning express train on the Erie railroad, due here at 7:10 a, m. had a narrow escape from a terrible disas-ter near Port Jarvis. While running at the rate of thirty miles an hour the engine struck an iron drawhead which had been dropped by the preceding train, and was instantly thrown from the track. After running some distance over the ties, the engine broke loose from the train and was precipitated down an embankment, the train remaining safely on the track. The engineer remained on the engine and was seriously injured. Had the train gone with the engine, another New Hamburg horror would have had to be from his duties, and is now in Brussels VERSAILLES, 8.—Yesterday, eighty field guns and a hundred and forty thou-sand rifles were delivered at Ivry and anures.

The proprietors of the sleeping can The Red Prince hs arrived and an-nounces that the district occupied by lines have made a present of ten thousand dollars to the wife of Conductor the second army corps is peacefully dis-Voeburg, who was killed in the Hudposed.

n River accident. NEW YORK.—John H. Devine, Long Island, an accomplice of W. Keily, both the murderers of Garrett Nostrand on the 21st of January, yesterday con-fessed the crime to the Sheriff. Nos-trand, he says, was drunk at the time. Devine was instigated by Kelly to knock him down. Kelly then struck him with a club and said: "I have fin-tahed him." Kelly denies the whole statement. Nothing has been heard from New Hamburg or Ponghkeepsie, of the Ital-ian Consul at Montreal, Mr. Kinsella, or Dr. Lucia, attache of that consulate, for whom enquiries have been received NEW YORK .- John H. Devine, Long

for whom enquiries have been received they do not report themselves. The strangest mystery of this deplorable af-fair yet remains to be told. Mr. Mailay, Poughkeepsie, the Coroner, has in esion a pair of shoes belonging CERTAIN Agents of Organ Makers visiting of about fifteen years of age. C this city have been representing that their to a girl of about fifteen years of age. These shoes contain a pair of feet, all instruments are fully as good as the Mason & that remains of the body of which Hamilta Organ Co's make. Being Mason & were once members, the rest hav- Hamits Organ Co's General Agents for ng been consumed in the conflagration bat followed the collision. These shoes prove, beyond all possibility of a doubt,

graph pole that stands on the embank- respect to these of any other make. leading to the bridge from the The Company's sales are over two handred and scarcely six feet from the per week, being nearly doable that of any the Bridge. How they came other Organ Factory in the World. Wherever orth, and scarcely six feet from the ad of the Bridge. How they came ere is a mystery, equally impenetra-with that of their proper owner- won the highest awards at Industrial Fair including the Medal at the Paris Expesi-

MASSACHUSETTS. On application, we will furnish the testimony of nearly one thousand musicians, including BOSTON .- A Halifax dispatch states t prominent Organists, Plazists, Con oners A. H. Hinsen and A.

posers, Musical Conductors, Directors of Opera J. Franklin, together with their stores and cargo were condemned to day as forfeited to the Queen by reason of their the state is forfeited to the Queen by reason of their



As the earth gree round he annual cir-cuit it maintains he are parallel to itself, that is, the angle of its inclination to the plane of its orbit remains the same through-out an entire revolution; consequently the axis will be directed towards one particu-lar point in the infinite sphere of the hea-vens; in other words, if the parallel lines, represented by the parallel position of the axis in every point of its orbit, wave pro-duced to the immense distance of the starry sphere, they would seem to conissee in one point. Therefore the stars, because of their great distance, would not antibit any appreciable parallar or displacement by the earth's annual motion; that is, the whole orbit of the earth, if seen from the distance of the fixed stars, would appear like a more point, subtanding no apparent angle. Now if a line be drawn from the

normatic to appressive official and than the constitutes 10% minutes factor than the inne, and at other times 26% minutes do at Thibles of the equation of time are collated and inserted some in almosteric by the application of the equation to a by the application of the equation to a distance of the fixed stars, would appear into the source point, subtanding no apparent angle. Now if a line be drawn from the sum to the sorth, it will be perpendicular to the axis of rotation, when the sorth is bence the days and automand equinoxes. At all other seasons of the year, the stops which the radius vector makes with pendicular; this deviates from the per-tage of rotation, deviates from the per-tage of rotation, deviates from the per-tage of rotation, deviates from the per-tage of rotations, deviates from the per-pendicular; this deviation on either side of north or south declination; when the sum's is to stiller of the tropics, the deviation is at a maximum, and is then equal to the obligative of the solicity.

on the sun are often

ar, Thiose of the equation of the square in almance and by the spollestion of the square in almance tent to be square to the square in the square of the square of the square of the square in the square intervent is the square intervent intervent intervent intervent is the square intervent intervent intervent intervent intervent intervent is the square intervent in

violation of the fishery laws, notice of an appeal in both cases was given by the defendants. We have the testimony of Joseph H. Ridges Beq., builder of the Balt Lake Great Ogan; Pro-fensors George Carteless, John Tuilidge and O. Pratt, jr.; C. J. Sundbeck and Ben. Judson Makers and Repairers of Organs and other TENNESSEE. War against the Revenue laws. NASHVILLE -A force of deputy mar-NASHVILLE.—A force of deputy mar-shals and revenue officers, with a guard of soldiers, who had been sent to Franklin county to atreet five illicit distillers, after making the arrests were surrounded by 800 armed men and made prisoners, and the property which had been selzed resound, and the reve-nue force mailtreated. That part of the State is in open war against the revenue laws. i marty sorth, inclined slightly to a heady be according to theory. As a property of the second states the second be according to the second at the Atlantic formation the worter more. On its passage this great or rided one part continuing on its is

at M. Man Z. tancisco, Oul. PENNSYLVANIA. salpg fire

DAYLEBTOWN .- A dwelling house, hi. Two children perished burned. Statut 27 http://www.awara.

Apactor and m

Makera and Repairers of Organs and other reed instruments, and many other musicians in the Territory, to the appariority of the sec-organs, to whom we beg to refer all persons who intend purchasing. The have sold ever one hundred Or-parts of the Territory, have written us enthan-instituting all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong all the Organs introduced in this sitty pieced allong of any of the pending organs. Modelle Ry

So soon as we discover a better Organ, we shall bry and sorero it as we are only depend-ont on the Company we represent so long as their instruments are the loading once in the Market

ARIZONA. Indian and outlaw deprodutions. Fuction, Arizona, Jan. 29, via SANTA M.M., Feb. 10;-A terrible state of in disce of opposite representations. Apaches are increasing their works heft and murder. Within two weeks have captured a train and killed man and wounded several others, yean Phoenix and Wickenburg. And167:1v

Deslars in Philippill Lai H.D. Res. Res. 35 5 50 North Second Street. 619 17 87. LOUIS, Ro

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