

How Do The Tides Rise and Fall?

Let us consider the moon first, as its action, from its greater proximity to the earth, is much more effective in producing tidal waves than that of the sun. We know from the laws of gravity that the moon tends to draw the earth towards itself. If the moon be overhead, its tendency is to draw the earth upwards; if it be at the antipodes, beneath our feet, its tendency is to draw the earth downwards. Now, if the earth were a rigid, solid mass, like a ball of iron, this action of the moon would have no other appreciable effect than to draw the earth as a whole upwards and downwards. The earth, however, is different when on the surface of the solid globe there is an ocean of liquid matter. The force with which gravity acts is greater the nearer two bodies are to one another; consequently when the moon is overhead the surface of the sea is attracted with greater force, and is raised up in the shape of a wave, much in the same manner as we have seen the pair of the head rise up towards a charged electric machine. The converse of this action holds good also at the antipodes at the same time. There the bottom of the sea is attracted more than the surface of the waters; consequently, the lot or drops away, as it were, from the earth, and also forms a wave-like form. Thus we have at opposite sides of the earth, similar waves raised at the same time, by the moon's attractive force. Then the earth, as it revolves on its axis, brings every place in turn under each of these waves, when it is high water in each place as it arrives at the wave, and low water when between the two waves.—W. Durham, F. R. S.

CURRENT NOTES.

President Arthur's bedroom in the Executive Mansion is furnished in pigeon-egg blue.

A sharp student was called up by the worthy professor of a celebrated college, and asked the question: "Can a man see without eyes?" "Yes, sir," was the prompt reply. "How, sir," cried the astounded professor, "can a man see without eyes?" "Pray, sir, how do you make that out?" "He can see with one, sir," replied the ready-witted youth. And the whole class shouted with delight at the triumph over metaphysics.

It seems considerable annoyance has been caused in a certain circle of the English Roman Catholic aristocracy by the statement, attributed to Monsignor Capel, by a New York interviewer, to the effect that the present Duchess of Norfolk, became partly through his influence, a Roman Catholic, in order that she might be religiously qualified to marry the Duke of Norfolk. The fact is, that the young lady was a Roman Catholic some time before she married, and her religious convictions caused her many troubles.

AN UNWHOLESOME LESSON.—It has become a part of fashion to tell boys with energy they can win for themselves any position in life that they desire. This is not true, and therefore not a wholesome lesson for them to learn. There is every variety of work in the world to be done, and every variety of ability and talent to do it. If these could be wisely fitted together, both public and private interests would be secured. But, if, instead of this, people are forever aiming to do something beyond their powers and neglecting that for which they are specially adapted, nothing but ruin can ensue.

The regular army in England foots up 190,000 men. The reserve is about 30,000 strong, and the militia, about 140,000, of whom, 25,000 are in the reserve, and there are about 180,000 enrolled volunteers. The actual combat force is very different; of the 190,000 regulars, more than 92,000 are abroad; of the militia, 28,000 are deficient from the paper strength. Supposing war broke out, having completed the garrisons or foreign fortresses such as Gibraltar, Malta, and Aden, and England coaling stations, requiring at least 10,000 exclusive of India, and having a reinforcement of 10,000 men, the problem would arise how to meet the peril of the remainder. Having apportioned 6,000 men for each of the fortresses of Plymouth, Portsmouth, and Dover, and 10,000 men for the coasts of Great Britain and Ireland; Capt. Hagier, the great military authority, states there would be no more than 30,000 troops to strike a blow against the enemy.

The Horsford Almanac and Cook Book mailed free on application to the Rumford Chemical Works, Providence, R. I.

Special Notices.

A lot of warm Underclothing selling cheap at JOHN MCPHEE & CO'S.

A SPLENDID lot of Crockery just opened at the Family Grocery, will be sold at lowest prices.

Just opened at John McPhee & Co's, three cases of American Hats, latest styles. Prices low.

DERANGEMENT of the liver, with constipation, injure the complexion, induce pimples, sallow skin, etc. Remove the cause by using Carter's Little Liver Pills. One a dose.

Just received at John McPhee & Co's, Men's Fur Caps, Wolf Robes, Opposum Trimmings, Capes, Muffs, etc.

We are making a lot of real good French Calf Custom Boots. Come and get fitted.—DUNN, COY & CO.

LADIES purchasing velveteens will do right to examine our new stock of plain and broad-cloth velveteens, the largest variety ever offered and prices much below last season.—W. A. WEEKS & CO. oct 8 1w and L. E. Prowse is now opening his Fall Goods. sep 20

400 BASKETS to arrive at the Family Grocery to-day will be sold cheap.—R. K. BRACE. LATEST London Goods at W. A. WEEKS & CO'S. oct 3 1w and

JOHN MCPHEE & CO. are opening English Goods to-day. [sep 19 dy wly

LADIES should see our new hats and bonnets, of rich and fancy feathers, new flowers, chenille and jet fringes, mantle ornaments, buttons, trimmings, plaid and broad-dress goods, mantles and dolmans, etc., etc.—W. A. WEEKS & CO. oct 3 1w and

FIVE HUNDRED Stubbs' Hand-saw file, 3/4, 4 1/2 inch, slightly damaged, lot stair rods, dog collars, 3 gross Jews harps, grass clippers, and a general stock of Hardware from wrecked brig, "Isabella" less than cost. Great Bargains.—W. E. DAWSON & CO., Brick Store. A FEW choice hams at J. KNIGHT & SON'S. sep 24 4i

It will pay you to buy your Dry Goods, Clothing, Millinery, etc., from John McPhee & Co. [sep 19 dy wly

A SPLENDID lot of China, Glass, and Earthenware, to be sold cheap at COLWILL'S. aug 8 ft

How to save twenty-five dollars.—Carry your old sewing machine to Brown's and have it made as good as new, instead of changing it for a new one. Shop on corner of Prince and Grafton Streets, Ch'town. [ly 3 3m

WONDERFUL value in Men's Warm Underclothing at L. E. PROWSE'S. sep 20

HOMemade Boots take the lead. Call for a pair at the Boot and Shoe Factory. [sep 6 ft

GOLD and silver plating of every description done at BROWN'S. Shop on corner of Prince and Grafton Streets. [ly 3 3m, wky

If you want to be suited with a Tea Set, a Dinner Set, or a Toilet Set, go to COLWILL'S. aug 8 ft

If you want satisfaction go to the Charlotte-town Boot and Shoe Factory.

POYS' and Youths' Clothing, a large stock, a fine lot. [sep 13 3i wky

DINNER SETS, Tea Sets, Chamber Sets, in great varieties and cheap, at COLWILL'S. aug 8 ft

NEW HATS.—A very large assortment of English Hats received to-day at L. E. PROWSE'S. [aug 28

Be sure and ask your storekeeper for a pair of Boots made at the Boot and Shoe Factory. [sep 7 ft

ENGLISH MALT VINEGAR and Pickling Spice at BECK & GIFF'S. [sep 12 ft

BUY a pair of home-made boots at the Boot and Shoe Factory. [sep 6 ft

WHITE OATS OATMEAL, fresh ground to-day, at the Family Grocery. R. K. BRACE. [sep 1

KEEP your feet dry by getting a pair of Boots from the Boot and Shoe Factory. [sep 7 ft

ANOTHER large quantity of Crockery just received and will be sold cheap at COLWILL'S. aug 8 ft

L. E. PROWSE is marking his Fall Goods very low. sep 20

Just what is wanted, a good pair of Boots from the Boot and Shoe Factory. [sep 6 ft

The reason there is such a rush for groceries to George Carter's store on Great George Street is that he gives good value for the money—"only this and nothing more." He sells good sugar for 8c per lb., good tea for 32c, and raisins for 10c. He sells all his goods low and guarantees the quality. Customers consult their own interests when they deal with him. [sep 12 law wky tf

A PIECE of fine machinery that is composed of steel, iron, brass, copper, gold or silver that Brown cannot mend or make new, you may just as well throw it away. Shop on corner of Prince and Grafton Streets, Charlotte-town. [ly 3

The young men are requested to call and see L. E. PROWSE'S American hats. They are nobby and cheap.

P. E. Island Railway. DOMINION EXHIBITION. ST. JOHN, N. B.

THROUGH RETURN TICKETS, at undiminished rates, will be issued from following Regular Stations on this Railway to St. John, N. B., on September 27th, 28th and 29th, and October 1st, 2nd, 3rd, 4th, 5th and 6th; such Tickets being good to return from October 2nd to October 13th, inclusive:

Table with 3 columns: Station, Price, and Return Date. Includes Charlottetown, Royalty Junction, North Wiltshire, Hunter River, Brudenell, County Line, Pictou, Kensington, Miscouche, Wolfville, Port Hill, O'Leary.

Passengers from Flag Stations can purchase tickets from the Conductor, at reduced rates, by the nearest Booking Station, where they can procure Through Tickets to St. John, N. B. JAMES COLEMAN, Supt. Railway Office, Ch'town, Sept. 13, 1883.

J. A. CHIPMAN & CO., ARE OFFERING AT MILLERS' PRICES. IN STORE:

375 brls. Choice Patents and Strong Bakers.

375 brls. Choice Superior Extra.

TO ARRIVE:

300 brls. Choice Sup. Extra.

OFFICE AND WAREHOUSES: OPPOSITE RANKIN HOUSE. J. F. SHATFORD, AGENT. Sept. 11, 1883.

JOB PRINTING of every description executed with Neatness and Despatch at the EXAMINER JOB PRINTING ROOMS, cor. Water and Great George Street.

PARSONS' PURGATIVE PILLS. MAKE NEW RICH BLOOD.

And will completely change the blood in the entire system in three months. Any person who will take 1 Pill each night from 1 to 12 weeks, may be restored to sound health, if such a thing be possible. For curing Female Complaints these Pills have no equal. Physicians use them in their practice. Sold everywhere, or sent by mail for eight letter-stamps. Send for circular. I. S. JOHNSON & CO., BOSTON, MASS.

DIPHTHERIA, CROUP, ASTHMA, BRONCHITIS. JOHNSON'S ANODYNE LINIMENT.

JOHNSON'S ANODYNE LINIMENT (For Internal and External Use). CURES: Whooping Cough, Sore Throat, Bleeding at the Lungs, Chronic Hoarseness, Hacking Cough, Whooping Cough, Neuralgia, Rheumatism, Chronic Diarrhoea, Chronic Dysentery, Cholera Morbus, Kidney Troubles, Diseases of the Spine and Lambe Back. Sold everywhere. Send for pamphlet to I. S. JOHNSON & CO., BOSTON, MASS.

MAKE HENS LAY. DOMINION SAFETY FUND.

THE following acknowledgments for payments death claims show the promptitude with which such claims are paid by the Dominion Safety Fund Life Association:—

As insurances are effected in this Association at actual cost, with a small fixed charge for office commission, there cannot possibly be a more equitable and cheap system of life insurance.

No delay no heavy premiums, no enormous profits at the expense of the insured! This company having made the deposit of \$50,000 at Ottawa, as required by law, offers this further guarantee as to the prompt payment of its obligations.

Every policy in this Association for \$1,000 is secured by the obligations of its members representing upwards of \$2,000,000 and rapidly increasing.

FREDERICTON, N. B., July 3rd, 1883. To the President and Directors of the Dominion Safety Fund Life Association, St. John N. B.

GENTLEMEN:—I hereby acknowledge receipt of the sum of two thousand dollars, in full settlement of my certificates, Nos. 369, 370, on account of the death of my husband, Dr James Henry Ellis, M. D. paid to me immediately upon presentation of proofs of his death. I beg to express my grateful thanks for your promptitude in paying the claim, and gladly authorize you to publish this letter, if you deem it desirable, in the interests of your valuable Association.

Witness: (Signed,) Wesley Vanwart. St. John, N. B., July 30, 1883.

To the President and Directors of the Dominion Safety Fund Life Association, St. John, N. B.

GENTLEMEN:—I beg to offer you my sincere thanks for the promptitude with which my claim on your Association for one thousand dollars, as beneficiary on my husband, the late Moses Lockhart, was paid to me as soon as the necessary papers were completed and presented, and I trust the Association will continue to receive the support it so fully deserves.

Witness: (Signed,) C. A. Macdonald. SARAH LOCKHART.

LEONARD MORRIS, Agent for P. E. Island.

CANADA LIFE ASSURANCE COMPANY. ESTABLISHED 1847.

CAPITAL AND FUNDS NEARLY 6,000,000 DOLLARS.

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WM. McLEAN, Agent. June 7.

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JOHN NEWSON, Charlottetown, Jan. 9, 1883.

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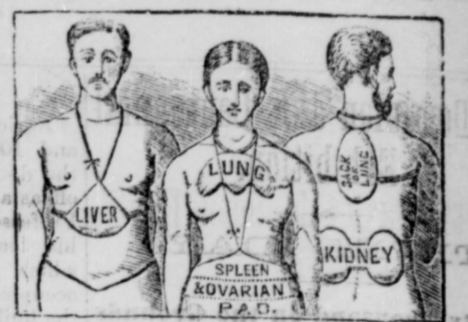
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DR. BENNET uses, in his treatment, Electro-Magnetism which is spoken of highly by William Hammond, late Surgeon-General United States Army, and who has recorded many marvellous cures coming under his notice from its effects. Dr. Bennet's pamphlet on disease, its cause and origin, free by mail. Dr. Bennet will be in Charlottetown next trip about the 30th of October, notice of which will appear. Sept. 28, 1883.

JOSEPH CARROLL'S STEEL PENS. SOLD BY ALL STATIONERS AND GROCERS THROUGHOUT THE PROVINCE. -GOLD-

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Endorsed by the French Academy of Medicine for inflammation of the Primary Organs, caused by Indiscretion or Exposure. Dieu Hospital, Paris, Treatment. Positive cure in one to three days. Local Treatment only required. No nauseous doses of Cupes or Copaliba.

IN FALLIBLE, HYGIENIC, CURATIVE, PREVENTIVE. Price \$1.50, including Bulb Syringe. Sold by all Druggists, or sent free by mail securely sealed, on receipt of price. Descriptive Treatise free on application. AMERICAN AGENCY "66" MEDICINE CO., Detroit, Mich., and Windsor, Ont. Sold in Charlottetown by APOTHECARIES HALL CO.

MAY 16.

CARTER'S LITTLE LIVER PILLS.

CURE SICK HEADACHE

Headache, yet Carter's Little Liver Pills are equally valuable in Constipation, curing and preventing this annoying complaint, and also correct all disorders of the stomach, stimulate the liver and regulate the bowels. Even if they only cured one headache.

ACHE

Is the bane of so many lives that here is where we make our great boast. Our pills cure it while others do not.

Carter's Little Liver Pills are very small and very easy to take. One or two pills make a dose. They are strictly vegetable, do not grip or purge, but by their gentle action please all who use them. In vials at 25 cents; five for \$1. Sold by druggists every where, or sent by mail.

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For Old and Young, Male and Female. Positively cures Nervousness in ALL its Stages Weak Memory, Loss of Brain Power, Sexual Frustration, Night Sweats, Superstitions, Hysteria, nervousness, Nervous Weakness, and General Loss of Power. It repairs Nervous Waste, rejuvenates the Jaded Intellect, Strengthens the Exhausted Generative Organs in either sex. With each order for twelve packages, accompanied with five dollars, we will send our Written Guarantee to refund the money if the treatment does not effect a cure. It is the Cheapest and Best Medicine in the Market. Full particulars in our pamphlet, which we desire to mail free to any address.

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