

**SAYS THAT VOLCANOES AFFECT OUR CLIMATE**

**Director Abbot of Smithsonian Institution Gives Results of Observations.**

C. G. Abbot, director of the astrophysical observatory of the Smithsonian Institution, in a recent communication to the National Geographic Society here advances the theory that volcanic explosions affect our climate, sometimes to the extent of several degrees. "Certainly an agency capable of sending vast clouds of dust to a height of twenty miles in the air, there to be distributed by the winds all over the world, and to remain in suspension for months or years, causing the decrease of the direct radiation of the sun by as much as 25 per cent, is a climatic influence not to be ignored," says Director Abbot. While making measurements on the quantity of heat coming from the sun at Moscow, Alaska, shortly after the eruption of Mount Katmai, in Alaska, Director Abbot states he noted several remarkable smoke trails along the horizon, which in the course of a day or so developed into such a haze that work was practically impossible. This condition subsided for nearly three months.

**His Conclusions Confirmed.**

According to American Mr. Abbot states, "I found the conditions that the Alaskan volcano was responsible were confirmed. The dust resulting from the explosion had traveled at a rate of from twenty-five to forty miles an hour. The rate of its progression were roughly as follows: Toward Washington, forty miles per hour; toward Moscow, twenty miles per hour; and toward Mount Katmai, three miles per hour. "What do we ordinarily receive from the sun? The direct solar beam and diffuse light. If there were no atmosphere we should also receive the rays absorbed by atmospheric vapors and the rays reflected away to space from the upper atmosphere. The sum of these four quantities should be approximately equal to the heat of the solar beam outside of the earth's atmosphere, as, for instance, on the moon. Data to the Mount Katmai explosion experiments made at Mount Katmai and Mount Whitney showed that the rays reflected away into space were less than 45 per cent of the total heating effect outside the atmosphere. This loss amounted to 200 calories per square centimeter during the summer following that explosion."

**Tremendous Power of Volcanoes.**

Director Abbot goes on to show the tremendous power created by volcanoes, citing the outbreak of Krakatau in 1883, which was heard 3,000 miles away. The area over which the actual noise of the explosion was heard embraced one-tenth the length of the area of the globe. It was computed that fine dust from the volcano reached an altitude of first of 20,000 feet, and was still at a height of 20,000 feet one year after the eruption, says Mr. Abbot. "It seems to me that there can be little question that the volcanic haze has very appreciably influenced the rates of temperature in the United States," he says. "When we take the matter of temperature for the United States, the apparent effect is not so striking, but in case of Mount Katmai there are so many coinciding influences at work that it is perhaps too much to expect so good an agreement. In view of this slight preliminary study of temperature, it seems to me that the question of the effect of volcanic haze on terrestrial temperature is well worth serious consideration."

**UNITED STATES LEADS IN SOUTH AFRICAN IMPORTS**

**Federal Statistics for 1912 Refute Assertions About Foreign Competition.**

The success that has marked the efforts of American manufacturers to establish markets for their exports in the union of South Africa, long considered to be exclusive provinces for foreign traders, completely refutes the assertion that foreign competition is driving Americans from the field of export trade, according to a statement made public today by the department of Commerce. The rapid strides of American exporters into the field of foreign trade has caused a note of warning to be sounded throughout the United Kingdom against American aggressiveness in South Africa, the department asserts. Statistics are cited by the department showing that for the first time in more than five years the United States in 1912 outsold all other foreign countries in the imports into South Africa. "Triumphs of American commerce can be successfully made in the field of export trade whenever the American manufacturer sets himself to the task," says the statement. To substantiate this assertion, it is pointed out that "in spite of the fact that there is a fortifying stream of German passenger and freight steamers between Hamburg and South Africa, and that German manufacturers send out numerous travelers in an attempt to secure a larger share of business, the United States has exceeded Germany in the trade."

**ALONG THE RIVER FRONT.**

**Arrivals.**  
Bryant's lighter from Alexandria, at 11th street wharf, to load oyster shells for the crushing plant; schooner Annie at Alexandria to load for a down-river point.  
**Departures.**  
Schooner Mary Francis, light, for a Potomac point to load cord wood back to this city; Mattie Rattle, light, for a river wharf to load oysters for the Alexandria market.  
**Tugs and Tugs.**  
Tug Louise, left towing lighters for District workhouse at Occoquan, Va.; tug Rosalie, arrived at 14th street wharf, with lighters in tow from sand and gravel digging machines opposite Alexandria; tug Mende left with a tow of lighters for down-river point; tug Capt. Toby arrived at 11th street wharf with a lighter from Alexandria; tug Howard Reed, arrived at 11th street wharf with a tow of lighters from this city; tug Dauntless is reported due at this city with a tow of lighters from Baltimore; tug Eugenia sailed with lighters from 5th street wharf for a down-river point.  
**Memoranda.**  
Schooner Charles L. Ronde is due at this city with pine lumber from a North Carolina point; schooner John Taylor is lying at the 12th street wharf out of service for the winter; schooner Larnace Holland is on her way to Bertford, N. C., to load lumber for this city; schooner Cora McCreary is at a Potomac point, to load wood back to this city; schooner May and Anna Bewick, after unloading railroad ties at Baltimore will go to Newbern, N. C., to load lumber for this city; barge Clara Brooks has arrived at New York with railroad ties from this city; schooner Serena is at Baltimore with lumber from a Potomac point.  
The American steamer Frieda, from Sabine Pass, Texas, to Baltimore, loaded with sulphur, went ashore near Little Island, twelve miles south of Cape Henry.

... We have the honor to present, to Washington men, the ...



# P-B Annual Mid-Winter Clearance

**The Parker-Bridget Business Policy Calls for this Absolute Clearance of All Winter SUITS and OVERCOATS at Genuine and Generous Price Reductions.**

**COMPLETE, unbroken stocks of P-B hand-tailored SUITS and OVERCOATS at DECISIVE price REDUCTIONS.**  
Your choice of selection is practically unlimited—every material, every pattern, every style that's worthy — no display in the world of men's wear surpasses the magnificent stocks of P-B.  
Get this, men: Parker-Bridget hold two, and only two, sales each year. The P-B business policy—the onward march of this nationally known store to a greater volume of business—demands these absolute clearances at the end of each six months' business.  
Year after year, for a quarter of a century, this sale has held the confidence of men. We sell men satisfaction as well as good clothes.

Every P-B Winter Suit and Overcoat price is reduced, *genuinely and generously*. It is the P-B policy to allow the original price tickets to remain on all garments.  
(Note.) The following reductions include *Young Men's Suits and Overcoats*.

All \$15 Suits and Overcoats Now	... \$10.75	All \$35 Suits and Overcoats Now	... \$25.50
All \$18 Suits and Overcoats Now	... \$13.25	All \$40 Suits and Overcoats Now	... \$31.25
All \$20 Suits and Overcoats Now	... \$14.25	All \$45 Suits and Overcoats Now	... \$35.50
All \$25 Suits and Overcoats Now	... \$18.75	All \$50 Suits and Overcoats Now	... \$37.50
All \$30 Suits and Overcoats Now	... \$21.75	All \$55 Suits and Overcoats Now	... \$42.50

Full Dress, Tuxedos and Prince Alberts Are Not Included in This Sale

**\$3.00, \$4.00 and Even \$5.00 Derbies and Soft Hats, \$1.85**

THESE are Manufacturers' Samples—perfect hats from the foremost makers. P-B gives you the absolute guarantee as to the quality, the newness of the shapes and the value of these hats. Now is a mighty good time for you men to get under a new hat—lots of winter left and you'll do well to freshen or ginger-up your appearance with a new hat—especially at this remarkably low price of \$1.85.  
Note—No seconds, no imperfections; these hats are manufacturers' samples.  
Fur Caps reduced in 1/3. Silk and Opera Hats 1/3 this sale.  
Leather Goods Reduced One Quarter.

**Washington's Shirt Sale \$1, \$1.25, \$1.50 and \$1.75 Shirts in This Sale**

Special at **79c** Four (4) for \$3

Men look for this sale. Past experience has proven to them that they can buy perfect shirts at this low sale price.  
Every (Winter) White and Colored Neglige Shirt must make way for the P-B spring stock. You can buy our "regular stock" shirts in plain, plaid, stiff and "dinky" bosom models. All leading makes, new patterns. No seconds. Clean, fresh stocks.  
A word to the wise: "Come early tomorrow." Get first choice of patterns and sizes. Manhattan Shirts not in this sale.

**Mid-Winter Clearance in the P-B Boys' Shop**

Men have no monopoly at P-B's Midwinter Clearance, mothers come in for their share of good values in the Boys' Shop. You mothers will profit by reading these values today, and more so by seeing them tomorrow.

**Broken Lots—Boys' Suits and Overcoats—The Reductions:**

\$6.00 Values	..... \$4.00
\$7.50 Values	..... \$5.00
\$8.50 Values	..... \$5.66
\$10.00 Values	..... \$6.66
\$12.50 Values	..... \$8.34
\$15.00 Values	..... \$10.00
\$16.50 Values	..... \$11.00
\$18.00 Values	..... \$12.00

\$5 and \$6 Suits Special lots for Boys reduced in **\$3.75** this sale to...

Overcoats Reduced 1/3. This includes all Boys' Overcoats excepting chinchillas.

400 Boys' and Men's Caps, worth to \$1.50, special at **89c**

All Children's Hats reduced 1/3

**Tecky**  
\$5.00 Shoes. **\$3.95** Clearance Price

Clearance prices now in effect on \$5 Tecky. All in russet and gun metal leathers in the very newest style models. Tecky shoes rank first with well groomed men, and this clearance will be the first thought with wise buyers tomorrow morning.

Parker, Bridget & Company hold two, and only two, sales each year.

# Parker, Bridget & Co

The Avenue at Ninth—Washington

The P-B guarantee of absolute satisfaction is in force, always.