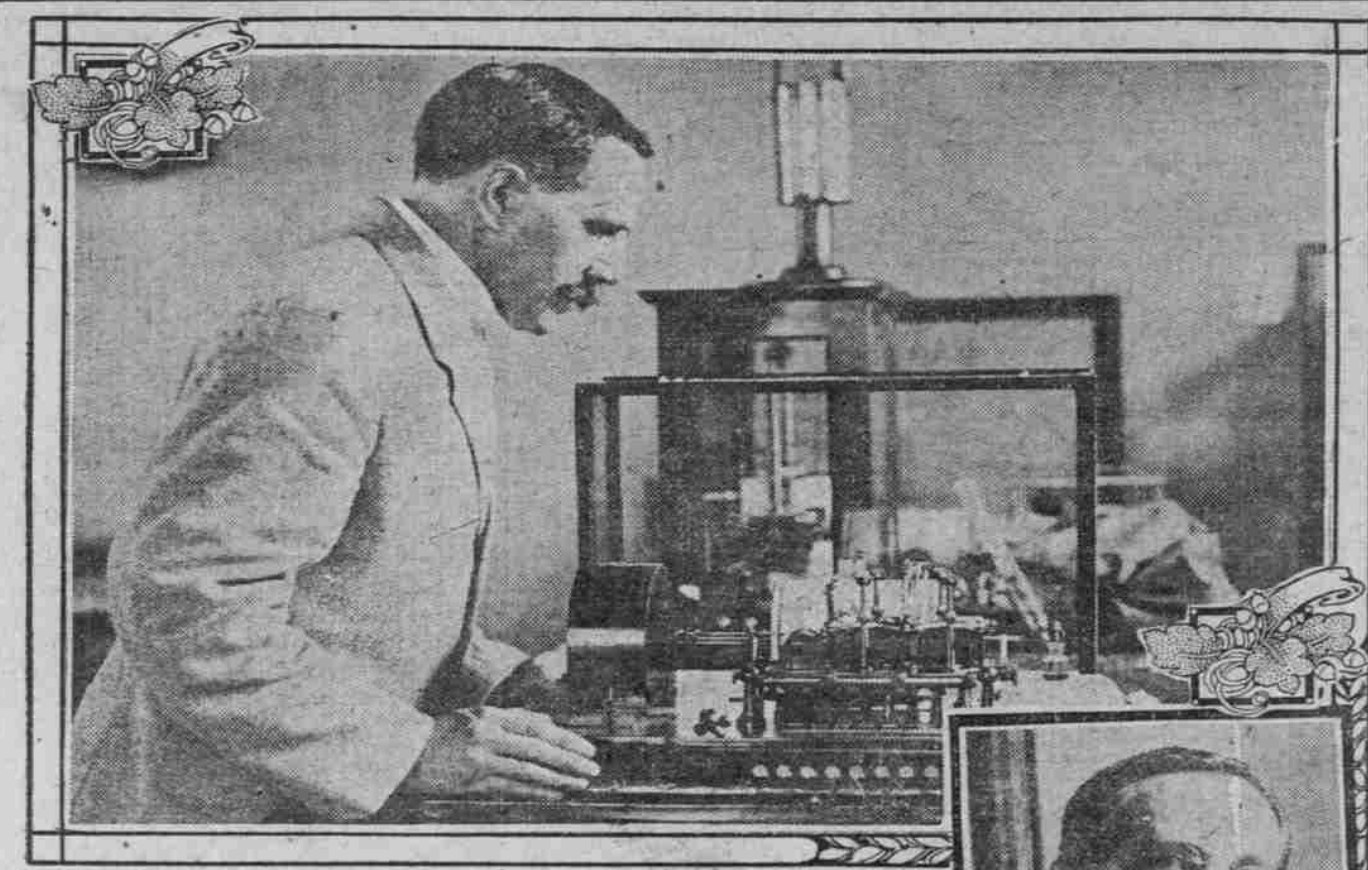


WEATHER BUREAU IS RIGHT ABOUT 90 TIMES IN 100, DECLARES CHIEF

Science of Using Barometer Correctly Is Modern, Asserts Charles Marvin, Who Was on Visit Here During Week. War Limits Range of Work, but United States Is Held Ahead of Other Nations.



Charles F. Marvin in His Laboratory. Harris & Evans Photos.

UNCLE SAM'S Weather Bureau is batting .906, according to Charles F. Marvin, of Washington, D. C., chief of the Weather Bureau, who was a Portland visitor of the week.

The average of successful forecasts made by the Bureau, he says, is 90 per cent. Verification of forecasts shows that from 88 to 92 per cent of predictions made by officials of the Bureau are correct.

"We hit it nine times out of 10," he said. "Naturally it is impossible, to be absolutely perfect in weather forecasting work as anything else."

According to Mr. Marvin the work of the Bureau in forecasting the weather has become an exact science. Since the United States went into the business in 1871 the goosebone prophet was much discredited. Formerly weather prophecy confined to wise old men who turned an inquiring eye upon the clouds, raised a wet finger aloft to ascertain which way the wind was blowing, may have observed the flight of birds, wondered whether the moon was wet or dry and predicted rain unreservedly if the frogs were croaking in the marshes.

Barometer Invented in 1643.

But these old weather signs said nothing to the scientists of the Weather Bureau. They do not care whether the squirrels lay up a plentiful store of nuts for winter or not or whether the hulls on the chestnuts are thick or thin. They do not give a snap of their fingers for rings around the moon, as applied to weather lore, nor do they place the least reliance on the swallows flying low or the sheep huddling together.

As for the frogs croaking, they will tell you that are making love, and even the rheumatic twinges of the old inhabitant are reckoned lightly in comparison with a barometer.

That valuable instrument was invented as far back as 1643 and was the first step toward encouraging the study of meteorology. The thermometer was invented shortly after. But although meteorological stations were established in various countries for observation, no system of forecasting the weather based on any reliable basis was possible until after the telegraph came into general use. This gave the forecasting business the biggest boost it ever had.

SOURCES OF INTERNATIONAL LAW ARE CUSTOM GROWN WITH NATIONS

Provisions Apply and Are Observed by All Governments Capable of Civilized Intercourse, Says Attorney Versed in Affairs of World.

Glenn E. Husted, an attorney of Portland, who will conduct a series of articles on international law as it applies in the present crisis, of the Oregonian, says that the first, was born in Michigan. He studied law with United States Circuit Judge Stevens, of the Circuit Court of Appeals for the Sixth Circuit, composed of Judges Taft, Burton and Clegg. He was admitted to international law two years under Justice Brewer, of the Supreme Court of the United States, and received first honors of class on graduation. In 1903 he was appointed by Attorney-General Clegg, to the position of special assistant to the Attorney-General, and remained as such through the administrations of Attorney-General Knox, Bonaparte and Wickens. Under Mr. Knox he had to do with international relations growing out of the war with Spain. Under Mr. Bonaparte he was of counsel for the Government in the suit to separate the Union Pacific and Southern Pacific railroads, and under Mr. Wickens he came to Oregon and was associated with B. D. Townsend in the present case of the Oregon & California land grant case.

BY GLEN E. HUSTED.

THE principles of international law applicable in the circumstances now giving rise to the present crisis have become of absorbing interest to all. At least up to the time of the Spanish-American war it was the tendency of this country to observe the isolation which Washington recommended. Our time was taken up with the development of our resources, and our relations with foreign nations were not so intimate or extensive that the subject of international law was a matter of general concern to our citizens. The interest in this subject excited by the war with Spain was temporary, and since then little has happened to attract general public attention in this direction.

The study of international law has not been deemed a necessary part of a liberal education, and even most lawyers have had little occasion to become familiar with its principles. Now the subject has become of the highest importance to the general public, and we would be wholly lacking in patriotism did we not give attention to the principles of international law that diligent examination and anxious study which are commonly devoted to matters with which we are vitally concerned.

Sources Are Custom Grown.

The sources of international law are custom grown up within the family of nations, the works of text writers of authority, the decisions of prize courts and international conferences and tribunals, treaties, state papers, opinions of Attorneys-General, confidential and otherwise, regulations issued for the government of officers, history of wars and negotiations between nations, the formulated views of international associations of jurists and the decisions of the courts of the various nations.

The law of nations, having its origin

Congress made an appropriation in 1871 for the beginning of the present Weather Bureau. Professor Cleveland Abbe, now in the Government service, began forecast work in Cincinnati before the organization of the Bureau and he urged its feasibility. The work was entrusted by the Government to the Signal Corps of the War Department, but was enlarged and transferred to the Department of Agriculture in 1890.

United States Declared in Lead.

Chief Marvin says that the United States took the lead in forecast work, although other nations have adopted the same system, which consists of the collection of data as to air currents, temperatures, rainfall, etc., in many different localities and the forwarding of those statistics to the central office of the Weather Bureau. The European war, he says, which has its hand on so many of man's activities, has curtailed the supply of data formerly available for the Weather Bureau and as a result, the issue of weekly general forecasts has been suspended until the close of the war. Before hostilities commenced, practically the whole Northern Hemisphere was covered by the Weather Bureau, daily observations being received from the Azores, Iceland, France Islands, Great Britain, Germany, France, Portugal, Russia, China, Japan, Alaska and other places.

Chief Marvin contemplates the gradual widening of the service of the Weather Bureau, which is now extensive, and one object of his visit here is to provide for an extension of one of the weather forecast stations in the arrangement for warnings of forest fire winds. Much can be done, it is said, in preventing the start of brush fires by the use of the Weather Bureau.

All People Held Affected.

Mr. Marvin, in pointing to the widespread work of the Weather Bureau, giving warnings as it does of storms, floods, winds, frosts, hot and cold weather and unusual conditions of any kind, says that the service of the Weather Bureau is of benefit to every living person in the country. From the schoolgirl, starting on a picnic, to the master of a steamship putting out to sea, the service of the Weather Bureau is of benefit to all classes.

Despite wars that rage and disasters that threaten, the weather holds its

own as the most important thing and the foremost topic of conversation. Mr. Marvin took occasion to put a bomb under the man who ever and anon rises up and says the weather is changing and that Oregon, for instance, is not getting as much rainfall as it used to have.

Forecasting Held Modern Science.

In thinking of weather, one must think in cycles, not in ten years but in 50 and 100 years," he said. "The memory of the oldest inhabitant falls him at times. We have approximately the same weather, with some extremes, all within the last 40 years. It started, we cannot tell, except that our weather, which includes winds, storms, sunshine and other changes, comes from the sun. If the sun were to stop shining, we would have no weather changes whatever. But whether it's sunset or what that causes our extremes, we cannot say with certainty."

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to his face.

Many of the old school do not agree with Mr. Marvin and his new-fangled ideas of predicting the weather. They claim that the gift of foretelling conditions extends farther back than Mr. Marvin admits. As an instance they point to Father Noah, who made a ruin of the world by his weather forecast, and all without the aid of a barometer, hypsometer, thermometer, anemometer or water meter.

Mr. Marvin holds that forecasting is an essentially modern science, originating within the last 40 years. It is possible only by the perfection of the telegraph. He says it has become an exact science and flouts the old-fashioned weather prophet right to