

The changes in the weather are thus indicated:—

1st. If the weather is to be fine, the composition of the substance will remain entirely at the bottom part of the tube, and the above liquid will be perfectly clear and transparent.

2nd. Before the weather changes to become rainy, the precipitate will rise by degrees, and small crystallizations, similar in shape to stars, will be seen to move about in the liquid.

3rd. When a storm is imminent, the precipitate will nearly all rise to the top of the tube, assuming the shape of a leaf, or an assemblage of crystals; the liquid will appear to be in a state of effervescence. This change very often takes place 24 hours before the change in the weather.

4th. The side from which the wind will blow in a squall will be also indicated through the direction and the elevation of the crystallization in the tube, the crystallization always forming on the side from which the wind will blow.

5th. In the winter season the crystallization will maintain itself higher in the tube; snowy and freezing weather are also indicated by the particles of the substance floating in the liquid and assuming the shape of long hairy needles.

6th. In summer time, the weather being dry and warm, the crystallization will have a tendency to remain lower in the tube, and the liquid will also be more transparent.

The amount of crystallized particles which will be seen floating in the liquid is a sure indication of fine or bad weather, but will depend entirely on the suddenness of the change in the weather which is to take place, acting in the most energetic way on the composition above described.

The value of this simple instrument to forewarn of an impending storm, and also to indicate the continuance of fine weather, will be readily appreciated by those whose occupations are affected by changes in the weather. —Journal of Applied Chemistry.

LONDON BUTTER.—The London Press announces a new discovery of an extraordinary nature. That journal says: "A fortnight ago we drew attention to the fact that the butter of South London was adulterated with tallow, starch, manganese, salt and water. We thought then we had reached the Ultima Thule of adulteration, but an ingenious individual has since added another sophisticating agent. A friend has in his possession a specimen of pure white fat, tasteless and perfectly odorless, which has been obtained by a clever analytical chemist from—what do our readers suppose? Simply from a portion of Thames mud, taken from the river at Battersea! And we are afraid that this new discovery of science is no longer a secret; for the owner of a small wharf on the bank of the Thames had an offer lately from a person desirous of becoming the tenant, and on asking the purpose for which the wharf was required, he was told it was to be used for a sort of butter factory by a company who contemplate the utilization of Thames mud for that purpose.

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