

Hôtel de la Syriène
Sorrento

March 4th 1895

Dear Sir,

I recently made a communication to the Royal Meteorological Socy of London of which I am a fellow concerning the behaviour of the smoke from Vesuvius during certain states of the wind. I arrived at Naples about the middle of December, and I at once watched to see if the smoke did not descend the mountain side, as I fully expected, whenever the wind passed from North West to the North and round to East. What happened has more than confirmed expectation and during my stay at Naples and here I have found that the smoke descends with an apparent clinging to the mountain side after the gales from the South + South West to West have passed to North after the centre of the depression has passed. This of course is quite what every meteorologist would expect. At the same time up to the present I am convinced that much too little attention has been paid to observation (where it is possible) of descent of air when the wind is in the cold quarter, rather than the idea so prevalent that the

Cold that accompanies northern winds is due to earth surface conditions is not tenable except as a secondary cause, the immediate cause being the descent of the air from the upper chilled strata. I should be very glad to know, if you could kindly spare the time, whether there have been systematic observations of the behaviour of the smoke of either Vesuvius or Etna, or both and if so where I could obtain them and the price of the paper. I am sure that such observations would form a most interesting contribution in aid of ^{knowledge of} the movements of the air under varying conditions of wind.

I am going to communicate any results I may obtain to the Society in London, the Secretary of which is very anxious to have them.

I am Dear Sir with much respect
Yr obedient servant
F. H. Morgan

Al Illustrissimo
Prof. P. Tacchini
Direttore Ufficio C. Met. Italiano
Roma