APPEAL FOR CO-OPERATION IN MAGNETIC AND
ALLIED OBSERVATIONS DURING THE TOTAL
SOLAR ECLIPSE OF AUGUST 29-30, 1905.

THOSE who are in position to take part in above co-operative work are earnestly requested to make the necessary preparations and to put themselves in communication with the undersigned.

As this will be the best opportunity for some time to come to further test and observe the magnetic and electric phenomena which have been found to occur in connection with total solar eclipses, and as these phenomena are destined to play an important rôle in the theory of the variations of the Earth's magnetism and electricity, ascribed to outside forces, it is very much hoped that all countries through which or near which the belt of totality passes will organize and send in the field observing parties.

Owing to the minuteness of the expected magnetic effect, the burden of proof as to its association with the eclipse will largely consist, as in the two previous eclipses, in the connection of the times of the magnetic effects with the times of passage of the shadow cone at the various stations.

The observing parties, therefore, should be strung at intervals along as much of the entire belt as possible. The portion of the belt lying in North America will doubtless be sufficiently well covered. The Coast and Geodetic Survey will have an observing party in the extreme northern part of Minnesota, close enough to the beginning of the belt. The Department of International Research in Terrestrial Magnetism of the Carnegie Institution expects to have an observing party in Labrador near where the belt passes into the Atlantic Ocean. It is believed, furthermore, that the Canadian Government will have a party at a favorable location in Canada.

It therefore remains to provide for observing parties in Spain and Africa.

The above is merely a preliminary notification of the work proposed. Fuller details and suggested directions to be followed will be given later.

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