

be  $37^{\circ}.24$ , or  $37^{\circ}.24$ , or  $37^{\circ}.23$ . The mean velocity per hour will be found by dividing the sum of the entries in the column "Miles in Twenty-four Hours" by 24.\*

**(429) Remarks on Form 20.**—This form is used for recording observations which are taken for insertion in the "International Bulletin," a daily publication compiled by desire of the Vienna Conference, and undertaken by the Chief Signal Officer at Washington. The observations are made in various parts of the world at the same *absolute* time, which corresponds to 7 25 a.m., Toronto time.

Form 20 is issued to persons not ordinarily observing at the telegraph hours, who are willing to take the observations of the synchronous system, in *addition* to their three ordinary observations.

**(430) Remarks on Form 17.**—The directions for filling the several columns of Weekly Form I., contained in Arts. 409 to 427, may, with slight modifications, be adapted to Form 17.

When the observations of temperature are taken at 7 a.m., 2 p.m. and 9 p.m., a near approach to the daily mean is found by taking the fourth part of the sum of the temperatures at 7 a.m., 2 p.m., and *twice* that at 9 p.m.

Where other combinations of hours are used, special instructions will be given on application.†

*Column "Kind of Clouds," &c.*—When a separate column is not provided for the direction, the letters denoting the direction should be written to the right of the cloud letters with "fr" (from) between them, thus k s fr S W, denotes cumulo-stratus from south-west. Without this precaution, there might be a chance of mistaking the letters n and s for the directions North and South.‡

*Column "Anemometer," "Sum and Mean for Twenty-four Hours."*—The sum is obtained by adding together the "miles since last observation" in the three adjoining columns, and the mean is then found by dividing this sum by 24.

In computing the means of temperature, sky clouded, or velocity of the wind, the division should be carried on to one decimal place further than in the individual entries. See latter portion of Art. 428.

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\* Observers are at liberty to omit the computation of the means, and leave the corresponding space blank.

† Observers are at liberty to leave blank the columns for means.

‡ The clouds should always be expressed by small letters, and the wind's direction by capitals.