VARIABILITY OF RAINY DAYS IN BANGLADESH DURING 1950-1999

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ABSTRACT

In the present study fifty years (1950-1999) daily rainfall data of 13 metrological stations of Bangladesh Meteorological Department (BMD) have been used. Variation of rainy days are studied during pre-monsoon, monsoon, post-monsoon, winter, and yearly consideration. Regional variation named as wet and dry regions of rainy days are studied. Three threshold rainy days named moderated heavy (22 - 44 mm/day), heavy (45 - 88 mm/day) and very heavy (greater than 88 mm/day) are also studied. During pre-monsoon period in Bangladesh except Srimongal all the stations show increasing trend of rainy days. In monsoon all the stations show increasing trend of rainy days except Dkaka, Chittagong, Cox's Bazar, Srimongal and Rangpur. Dkaka, Chittagong, Srimongal and Bogra stations show negative trend of rainy days during post-monsoon period, all other stations show positive trend. During winter season all stations show positive trend. Yearly variation of rainy days for all stations show positive trend except Srimongal during 1950-1999. All the stations shows increasing trend of moderate heavy rainy days except Srimongal and Comilla during 1950-1999. For heavy rainy days except Comilla and Satkhira, all other stations show positive trend. For very heavy rainy days except Mymensing, Rangpur, Bogra and Dinajpur, all other stations show positive trend. The increasing tendency of rainy days in dry region is higher than wet region. The country averaged seasonal, yearly and decadal variation of rainy days as well as three threshold rainy days show positive trend. The yearly averaged increase of rainy days is found 0.36 days/year.