## **Abstract**

One of climatological indices widely used in Japan is the number of days in some categories of daily minimum and maximum temperatures ( $T_{\min}$  and  $T_{\max}$ ), such as  $T_{\min} < 0^{\circ}$ C,  $T_{\min} \ge 25^{\circ}$ C,  $T_{\max} < 0^{\circ}$  $0^{\circ}$ C,  $T_{\text{max}} \ge 25^{\circ}$ C and  $T_{\text{max}} \ge 30^{\circ}$ C. The present study aims at evaluating their bias arising from changes in the observation time of  $T_{\min}$  and  $T_{\max}$ , which are currently defined for 0000-2400 JST (Japan Standard Time), but were observed for 2200-2200 JST at most stations until 1939 and for 0900-0900 JST for  $T_{min}$  from 1953 to 1963. The analysis was based on hourly temperature data at 830 automated stations (AMeDAS) from 1979 to 1997. In comparison to the 0000-2400 observations, the 0900-0900 and 2200-2200 observations were found to result in decrease of  $T_{\min} < 0^{\circ}$ C days by 4.9 days/year (5.8%) and 2.3 days/year (2.8%), respectively, and increase of  $T_{min} \ge 25^{\circ}$ C days by 0.8 days/year (15%) and 0.3 days/year (5.1%), respectively, on the average over all the stations. For the numbers of  $T_{\text{max}} < 0^{\circ}\text{C}$ ,  $T_{\text{max}} \ge 25^{\circ}\text{C}$  and  $T_{\text{max}} \ge 30^{\circ}\text{C}$  days, the bias due to 2200-2200 observation was found to be small. Then a simple equation for the relationship between biases of the number of days and temperature was derived, and its validity was examined. Finally, a brief analysis was made about the effect of the bias on the long-term change rate of the number of days. It was shown that the number of  $T_{\min} < 0^{\circ}$ C days during the last hundred years can have a superficial trend of several days/(year • 100 years) unless correction is made for the bias.



## 第7回大気科学と大気質への応用(Atmospheric Sciences and Applications to Air Quality, ASAAQ と略称)国際会議のお知らせ

上記会議のメキシコ開催が変更となり、急遽、台湾台北での開催となりました。2000年10月31日~11月2日、グランドホテルでの開催が決定。多数ご参加下さい。

主 題:大気汚染質と温暖化ガスの測定とモデル,対流圏化学,大気汚染と気象(ダイオキシン,PAH,重金属など),緊急時の対応,発生源収支,環境アセスメント,汚染物質除去過程・制御技術,制御政策.特に,地域的気候変化とその影響,および対流圏物質のリモートセンシングについては特別セッションを予定.

**発表希望者**:英語で200〜400語のアブストラクト(口頭またはポスターの発表希望の別)を2000年7月15日までに右記に送付のこと。

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Tel: +886-3-4254069; Fax: +886-3-4253204) また、次の ASAAQ-2000 Web site でも、アブスト ラクト送付や登録ができる他、詳細な情報が得られま

ASAAQ-2000 Web (http://www.atm.ncu.edu.tw/asaaq2000/)