

()

تغییرات زمانی و مکانی دمای مارون

Archive of SID

**Tempo-Spatial Variation of Temperature
in Maroon Basin**

S. Movahedi , M. R. Kaviani and S. A. Masoodian

Department of Geography, University of Isfahan

Abstract

To evaluate the trend of the maximum mean and minimum temperature of Maroon basin during the last half century, a linear regression model has been fitted to the interpolated data. A 95 percent confidence interval for the slope of the regression model was used to detect areas with negative and positive trends. This analysis showed that the temperature of basin confirm an increasing trend during the last half century. This trend is stronger for warm months and for warmer parts of the basin. Meanwhile, the increasing trend of minimum temperature is stronger than the maximum temperature.

Keywords: Temperature, Trend analysis, Interpolation, Maroon

Archive

l...

() () ()
() () ()
() () ()
() () ()
() () ()
() () ()

/

()

/ /

/ /

/ /

()

/

/

()

/

/

Archive of SID

()

()

l...

Archive of SID

/

Archive of SID

*

()

()

()

l...

() / () /

() / / ()

/ ()

:

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

:

			/	/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/	/

:

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

Archive of SID

l...

.()

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

:

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

:

	/	/	/	/	/	/						
	/	/	/	/	/	/						
	/	/	/	/	/	/						

.()

(/)

(/)

/

.()

.() /

/

/

.()

Archive of SID

:

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

:

	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

:

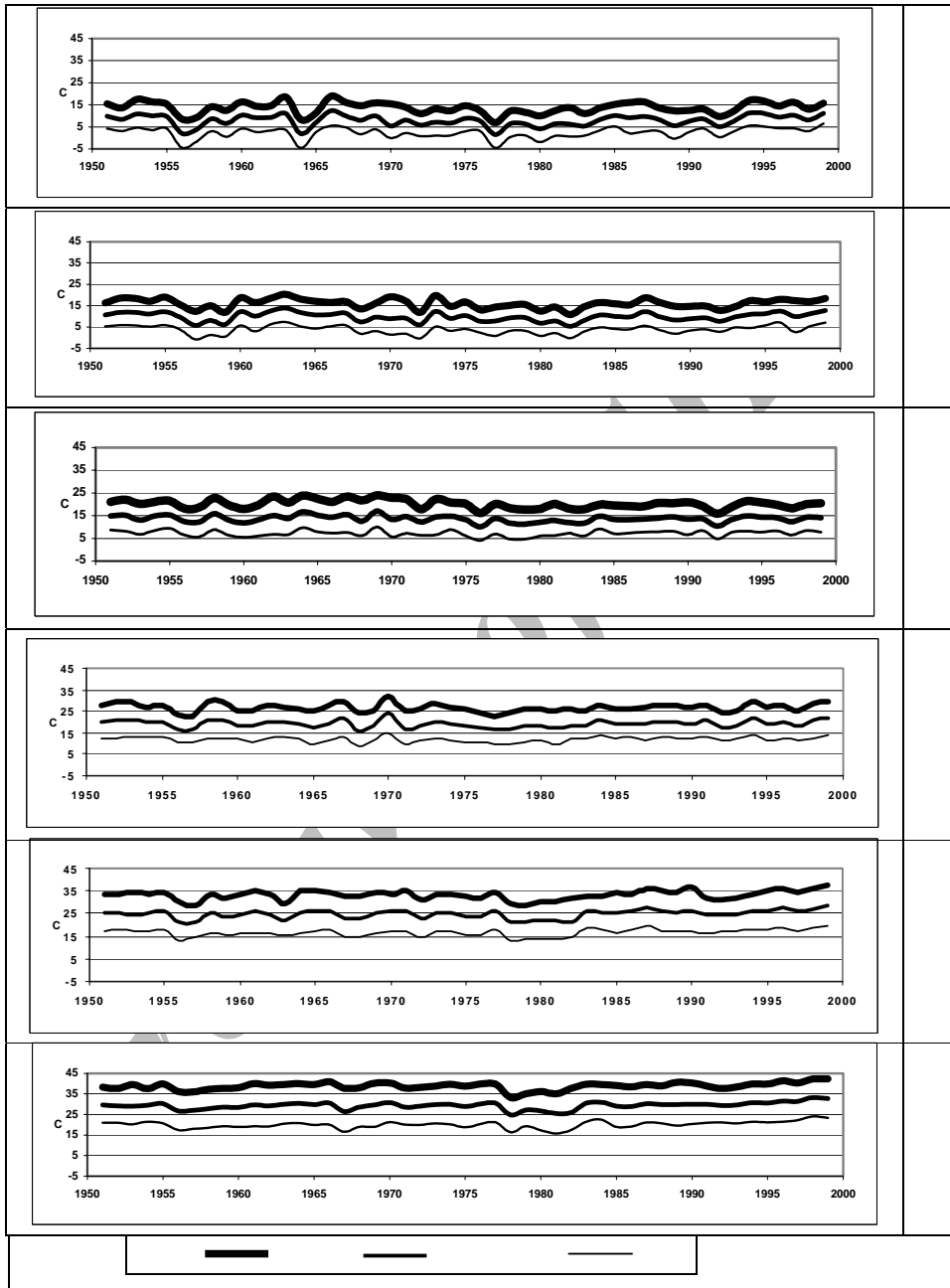
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/
	/	/	/	/	/	/	/	/	/	/	/	/

l...

:

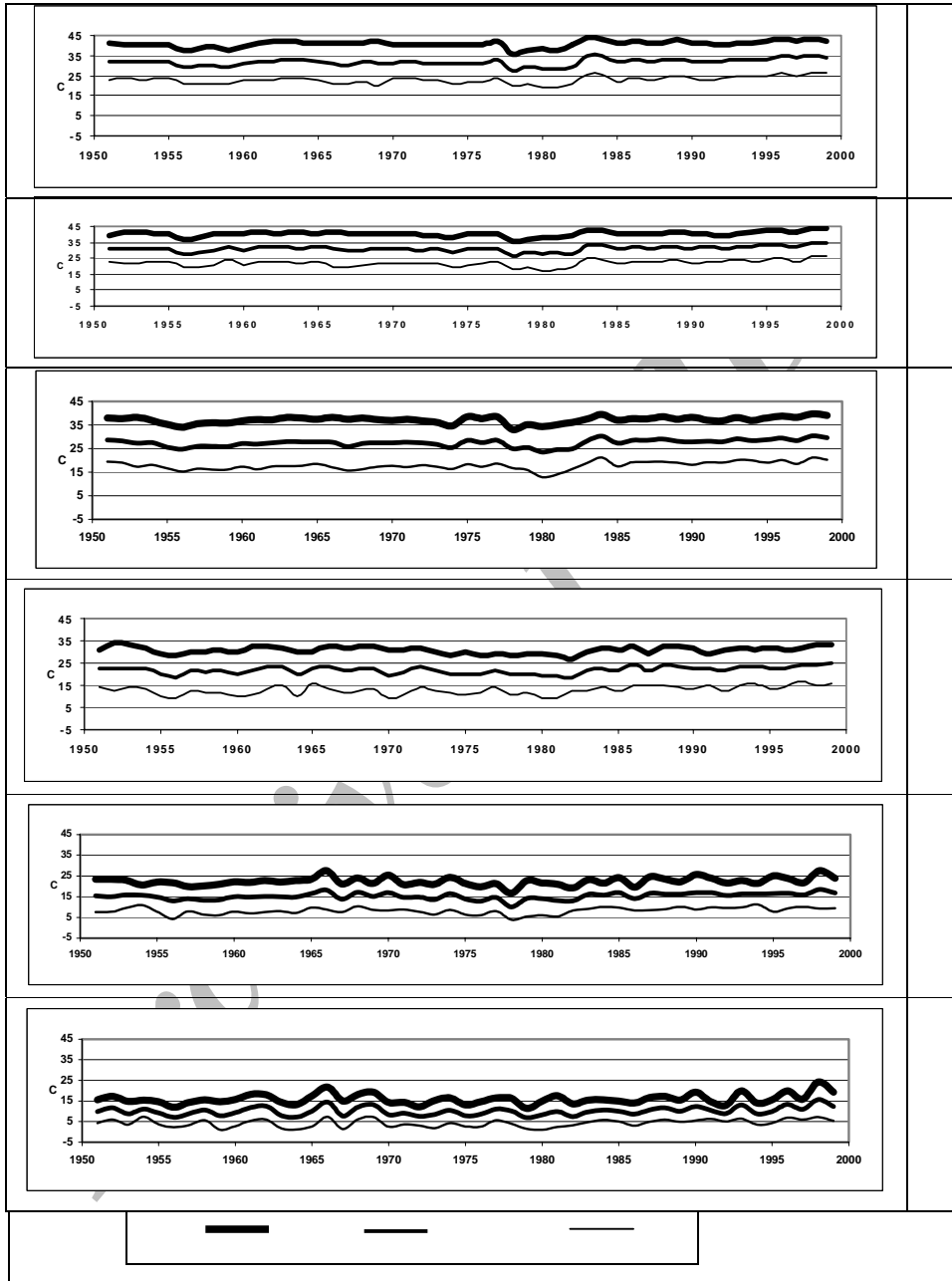
	/	/	/	/	/	/	/	/	/	/	/	/	/

Archive of SID

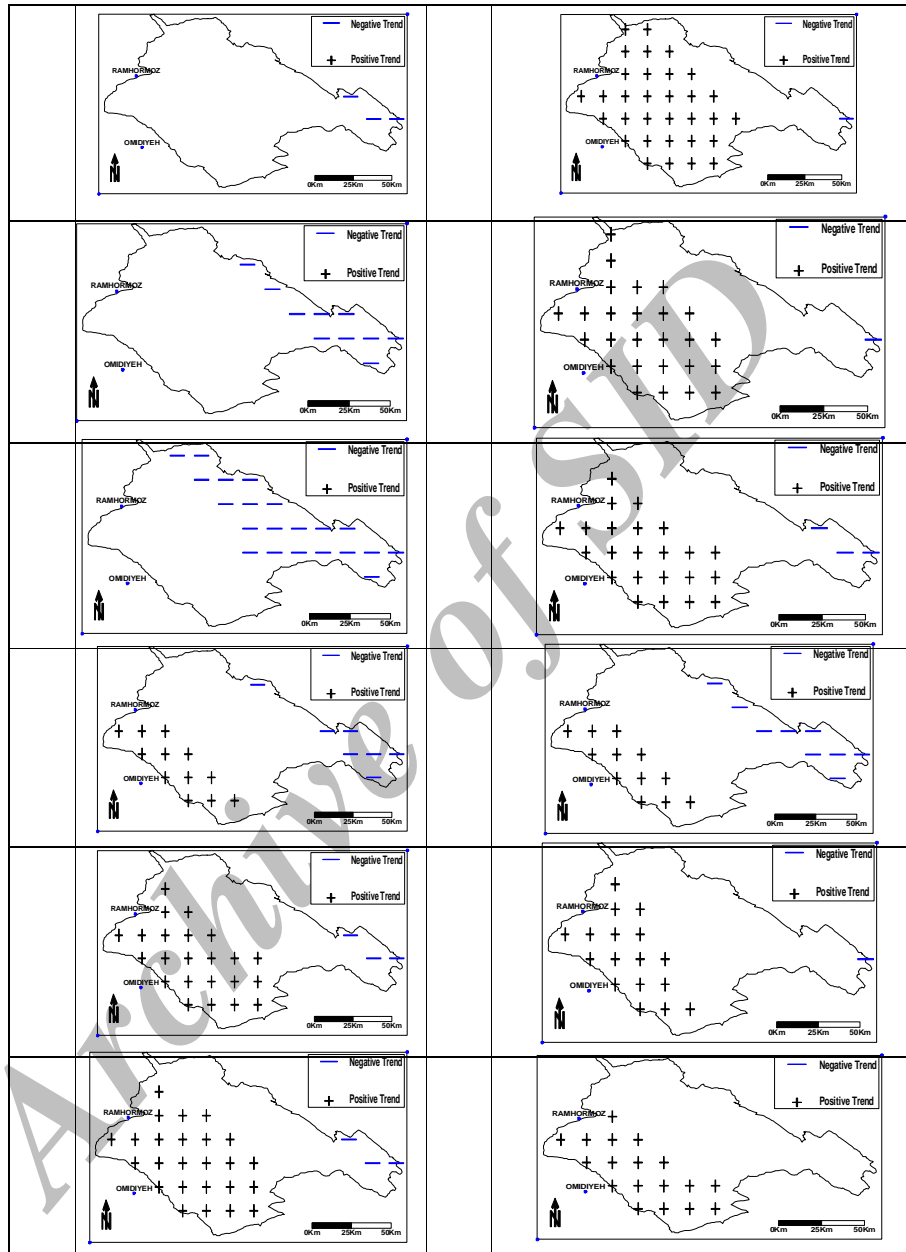


:

/...



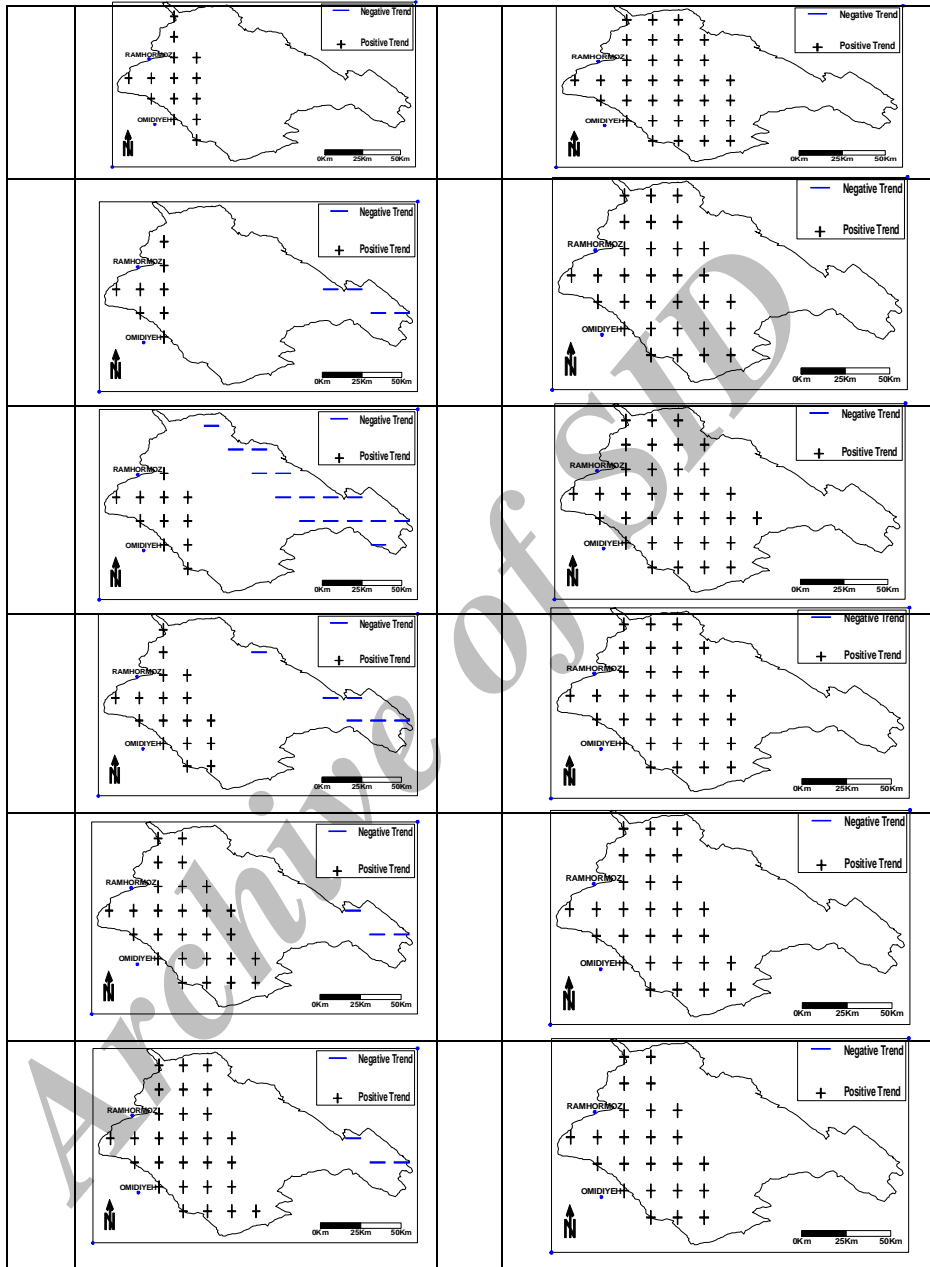
:



:

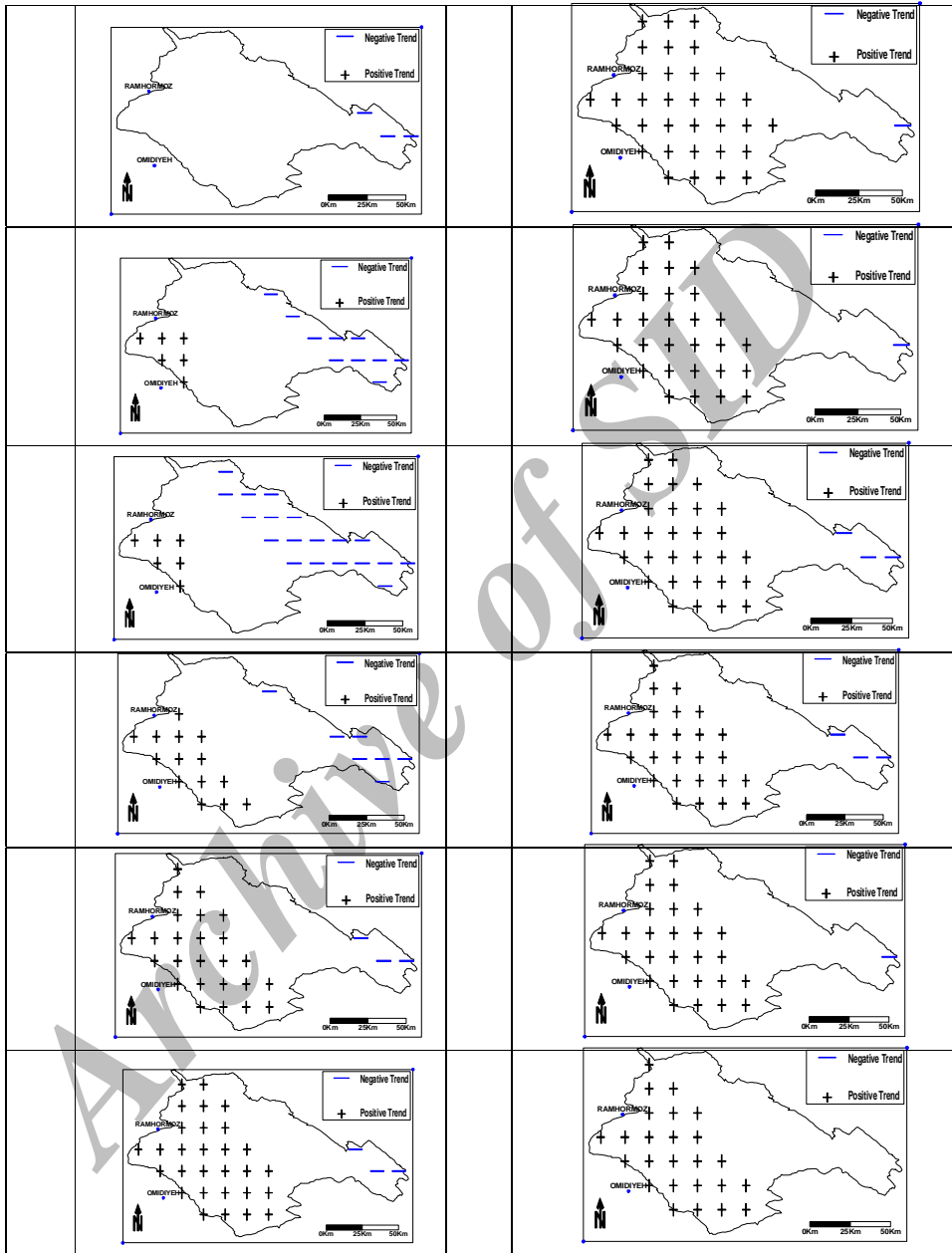
:

1...



:

:



:

:

/...

-
1. Chung Y. S., and M. B. Yoon. (2000). *Interpretation of recent temperature and precipitation trends observed in Korea*, Theor. Appl. Climatol. 67, 171–180.
 2. Grieser J., S. Tromel, and C. D. Schonwiese. (2002). *Statistical time series decomposition into significant components and application to European temperature*, Theor. Appl. Climatol. 71, PP. 171-183.
 3. Kass E, and Frich P. (1995). *Daily temperature range and cloud cover in the Nordic countries: observed trends and estimates for the future*. Atmos Res 37: 211–228.
 4. Kothiyari U, and Singh VP. (1996). *Rainfall and temperature trends in India*. Hydrological Processes 10:357–372.
 5. Maheras P, Xoplaki E, Davies T, Martin-Vide J, Bariendos M, and Alcoforado MJ. (1999). *Warm and cold monthly anomalies across the Mediterranean basin and their relationship with circulation; 1860–1990*. Int J Climatol 19:1697–1715.
 6. Niedzwiedz T, Ustrnul Z, Szalai S, and Weber RO. (1996). *Trends of maximum and minimum daily temperatures in central and southeastern Europe*. Int J Climatol 16:765–782.
 7. Onate JJ, and Pou A. (1996). *Temperature variations in Spain since 1901: A preliminary analysis*. Int J Climatol 16:805–815.
 8. Przybylak, R. (2000). *Temporal and spatial variation of surface air temperature over the period of instrumental observations in the Arctic*. Int J Climatol 20:587–614.
 9. Salinger, MJ. (1995). *Southwest Pacific temperatures: Trends in maximum and minimum temperatures*. Atmos Res 37:87–99.
 10. Stafford J. M., G. Wendler, and J. Curtis. (2000). *Temperature and precipitation of Alaska: 50 year trend analysis*, Theor. Appl. Climatol. 67, PP. 33-44.
 11. Yin, Z. (1999). *Winter temperature anomalies of the north China plain and macroscale extratropical circulation patterns*. Int J Climatol 19: 291–308.
 12. Yue S., and M. Hashino. (2003). *Temperature trends in Japan: 1900–1996*, Theor. Appl. Climatol. 75, 15–27.
 13. Zhang X, Vincent LA, Hogg WD, and Niitsoo A. (2000). *Temperature and precipitation trends in Canada during the 20th century*. Atmosphere Ocean 38(1): 395–429.