

Chapter 4 : Mean annual variations : Latitude-time cross sections

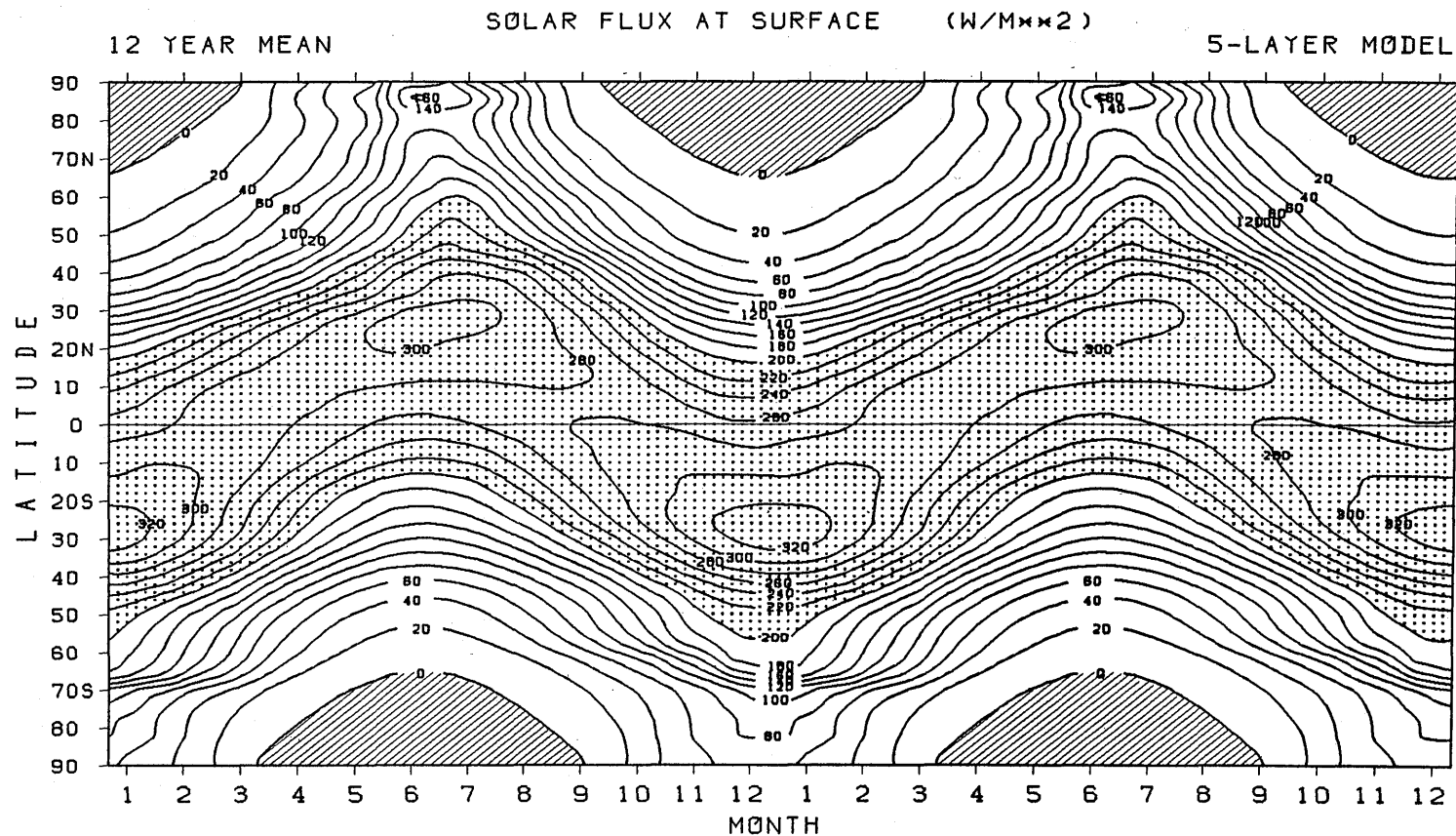


Fig. 4.1 Zonal mean downward solar flux at the surface. Contour interval is 20 W m^{-2} . Shading denotes polar night regions. Values greater than 200 W m^{-2} are dotted.

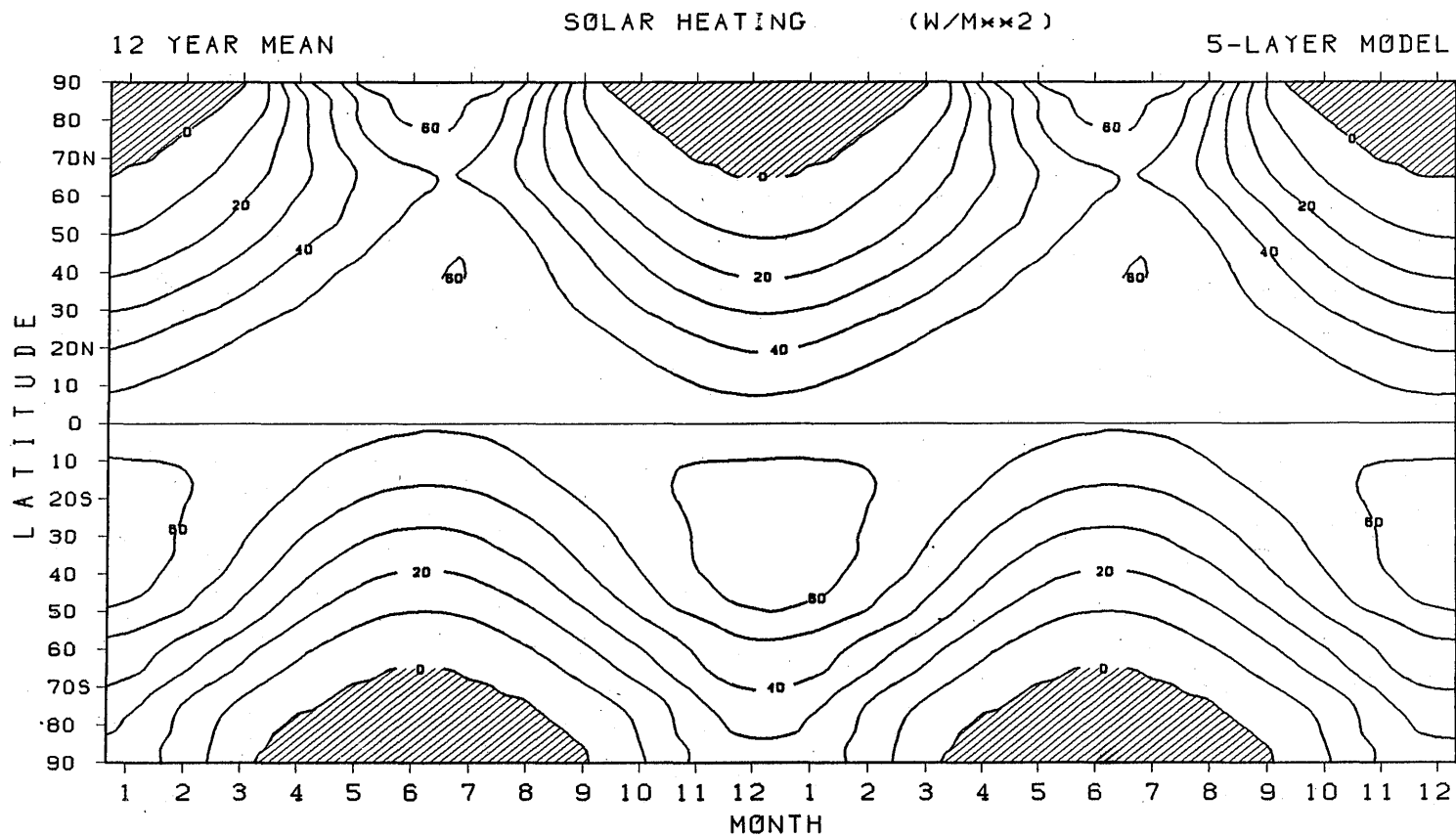


Fig. 4.2 Zonal mean heating of the total air column by solar radiation. Contour interval is 10 W m⁻².

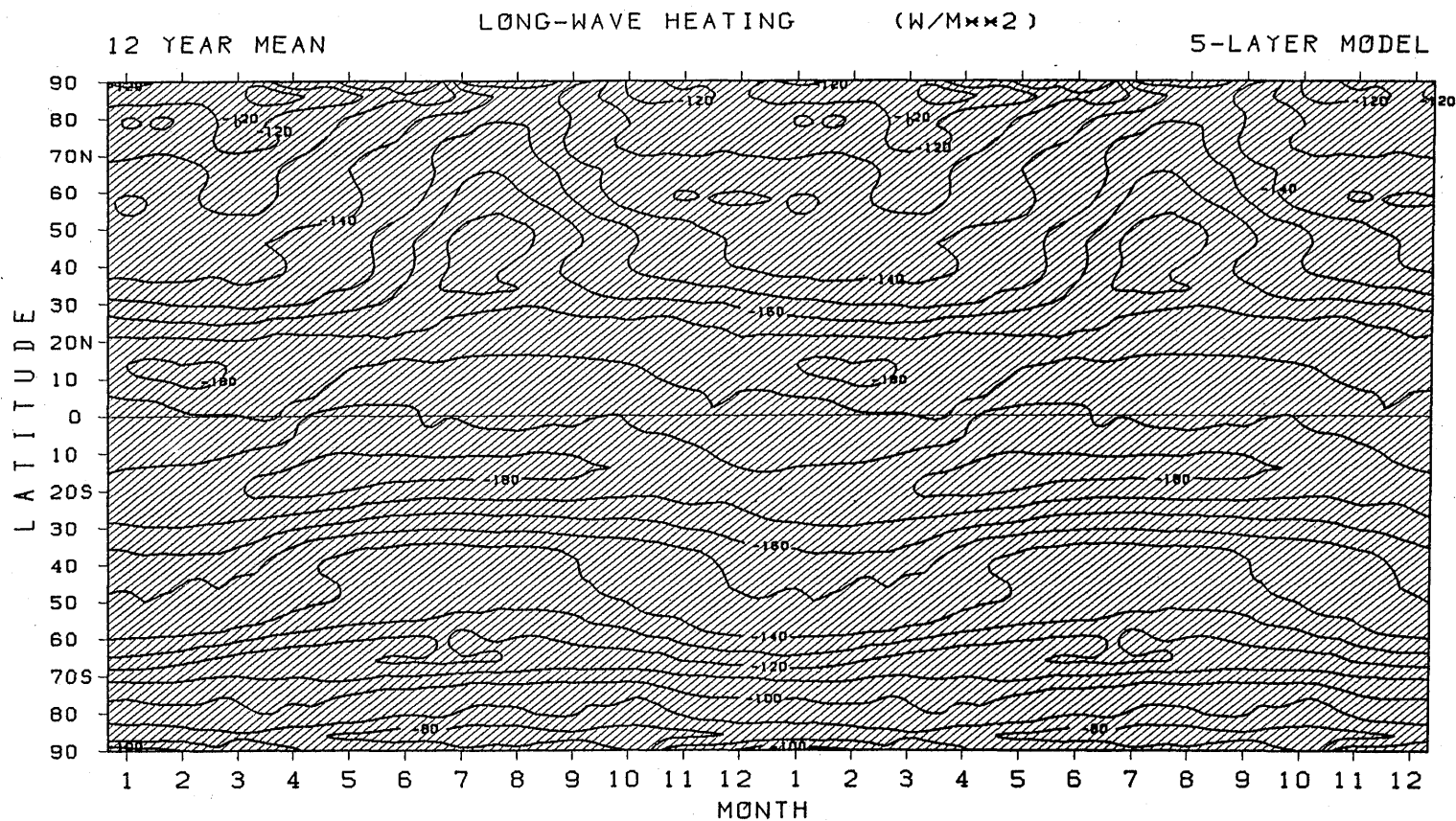


Fig. 4.3 Zonal mean heating of the total air column by long-wave radiation. Contour interval is 10 W m^{-2} . All values are negative.

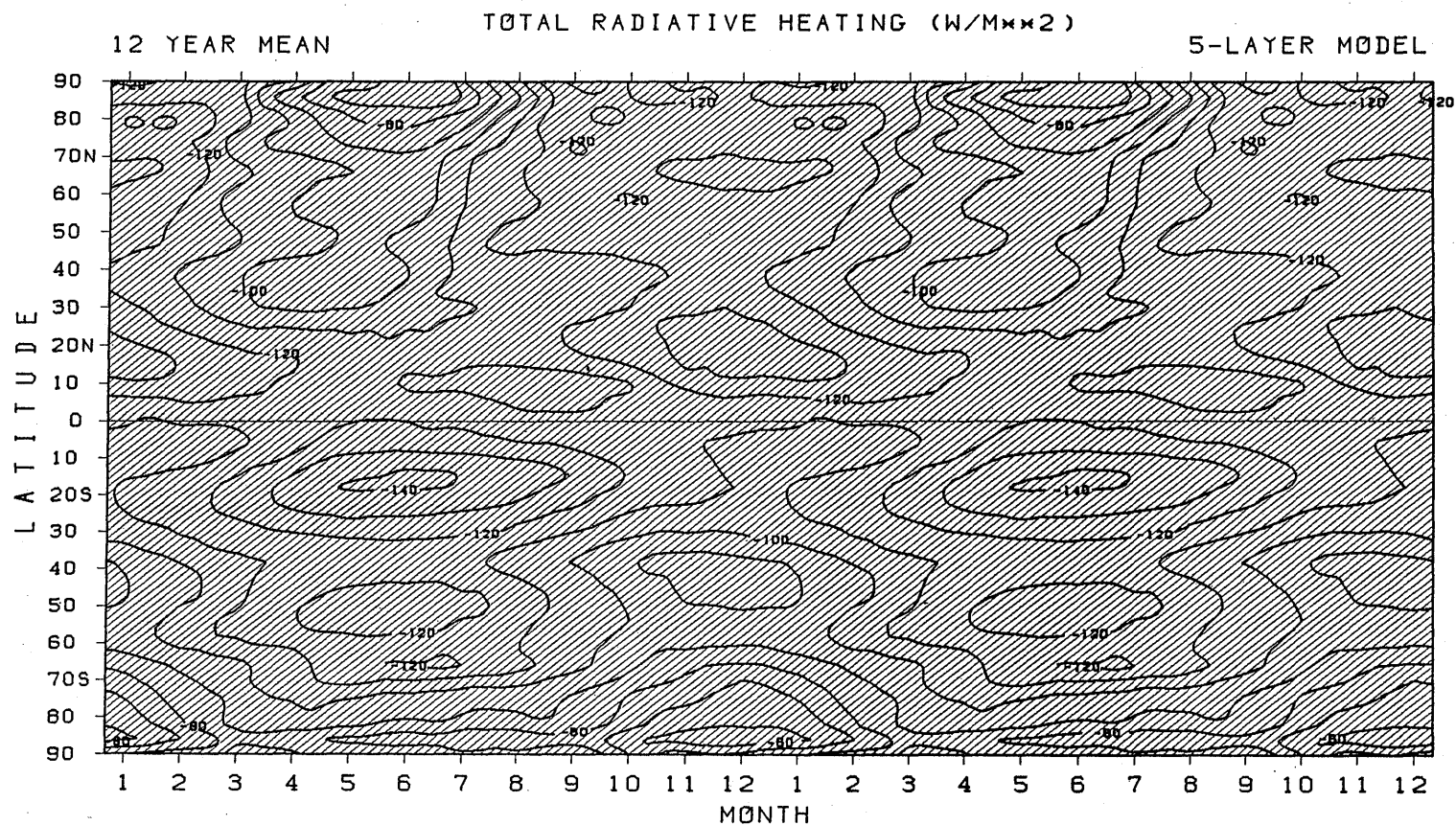


Fig. 4.4 Zonal mean heating of the total air column by total radiation. Contour interval is 10 W m^{-2} . All values are negative.

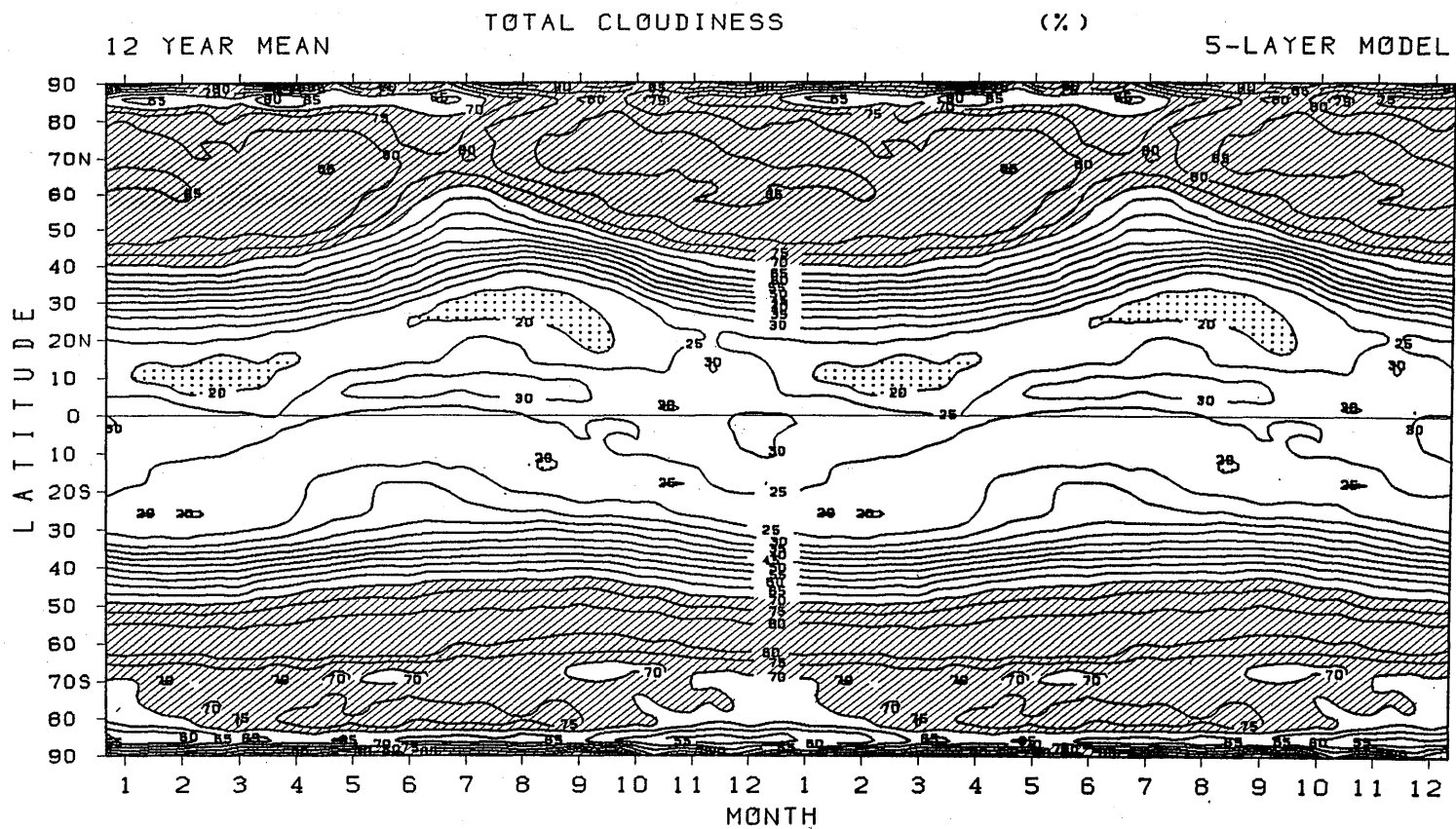


Fig. 4.5 Zonal mean total cloudiness. Contour interval is 5 %. Values greater than 70 % are shaded, those less than 20 % dotted.

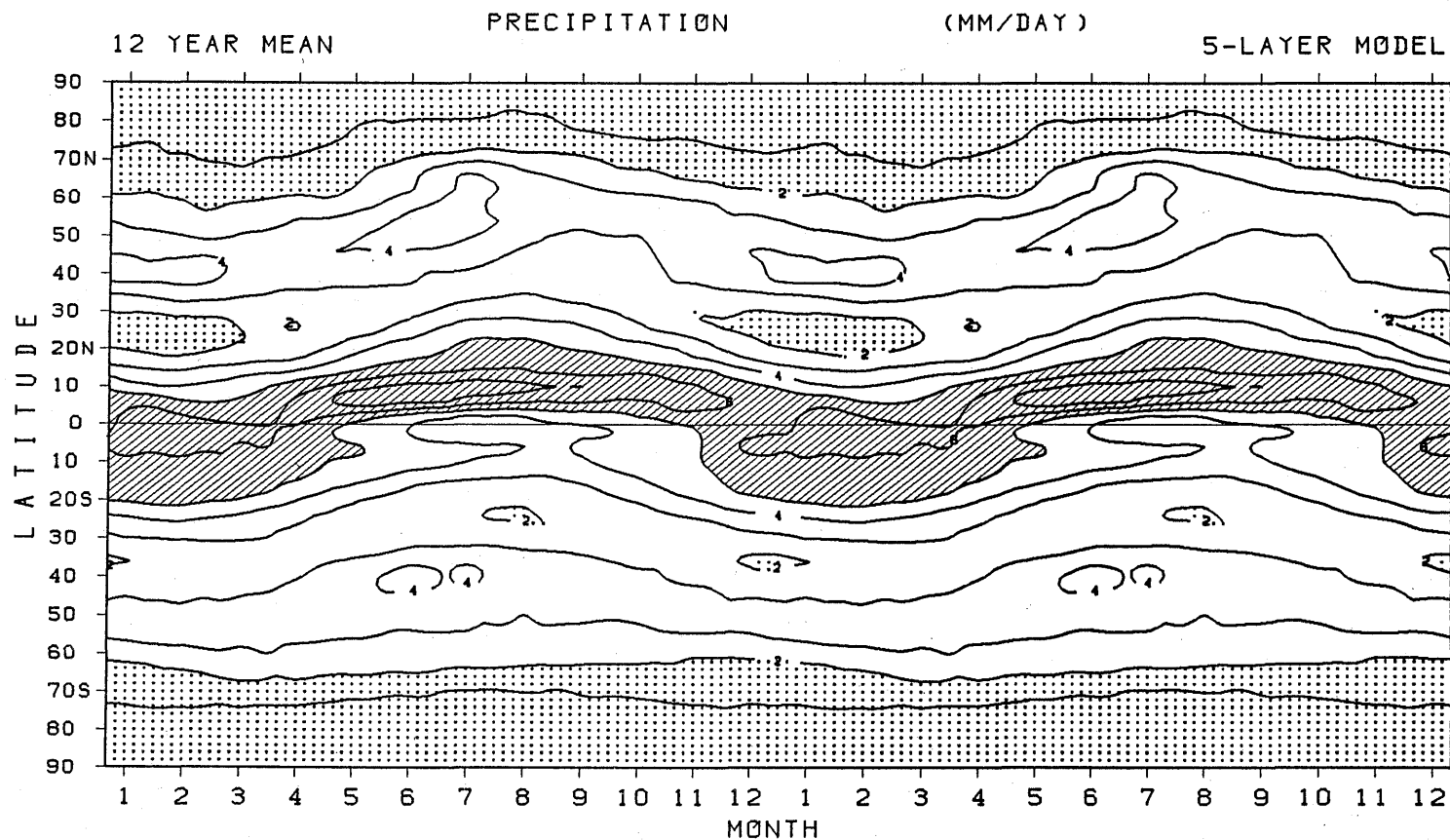


Fig. 4.6.1 Zonal mean total precipitation rate. Contour interval is 1 mm day^{-1} . Values greater than 5 mm day^{-1} are shaded, those less than 2 mm day^{-1} dotted.

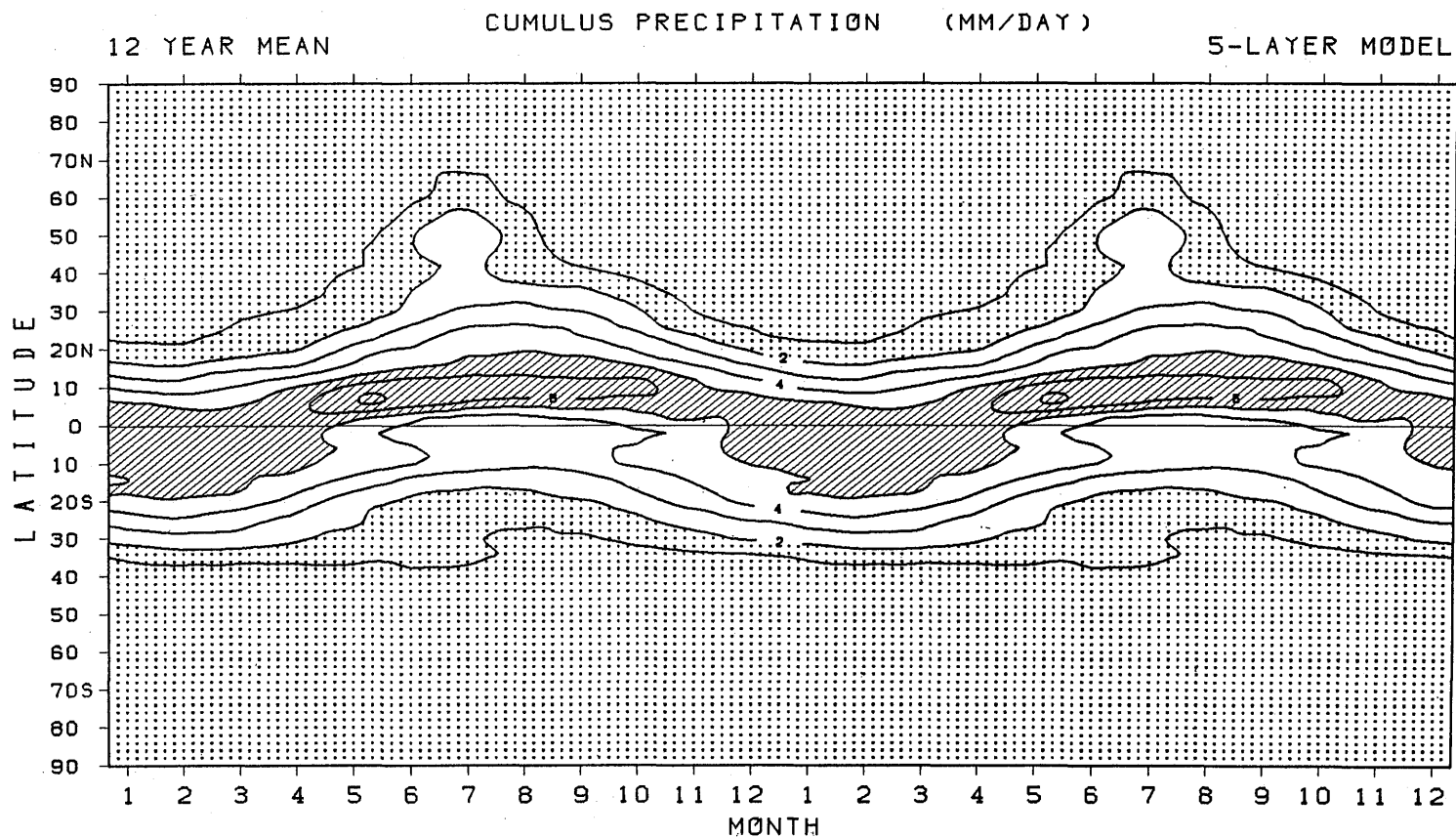


Fig. 4.6.2 Zonal mean precipitation rate due to cumulus convection. Contour interval is 1 mm day^{-1} . Values greater than 5 mm day^{-1} are shaded, those less than 2 mm day^{-1} dotted.

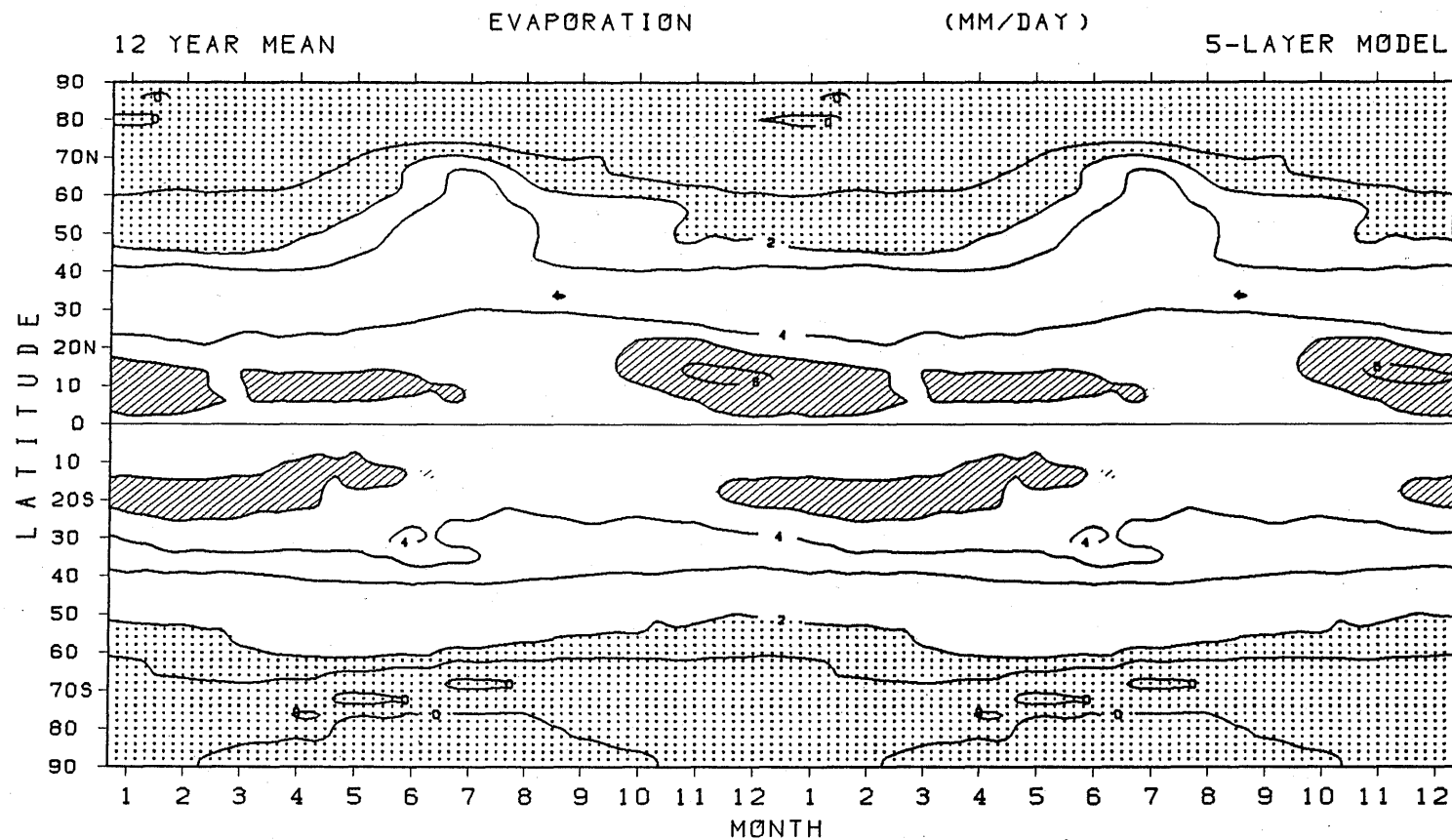


Fig. 4.7 Zonal mean evaporation rate. Contour interval is 1 mm day^{-1} . Values greater than 5 mm day^{-1} are shaded, those less than 2 mm day^{-1} dotted.

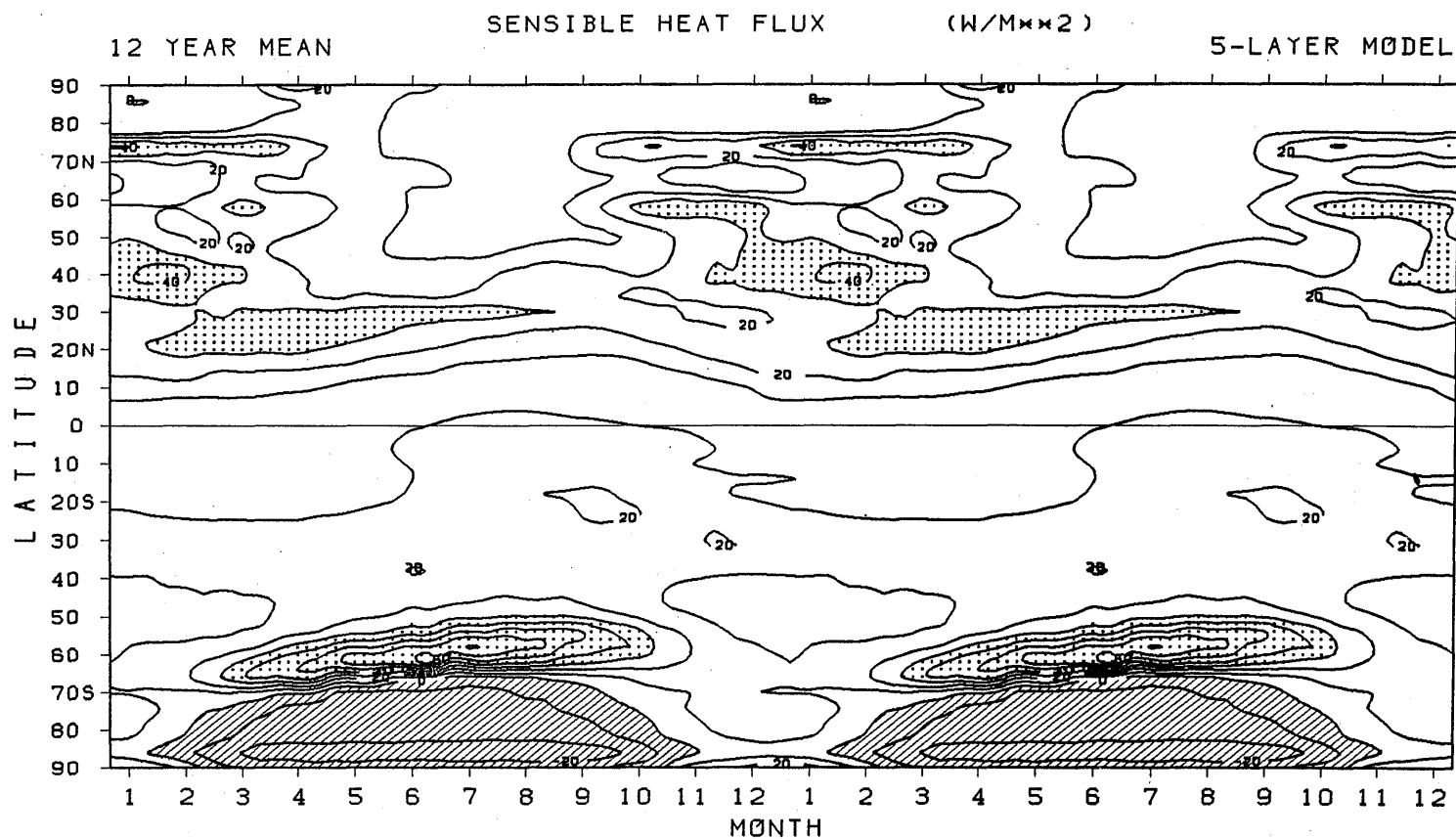


Fig. 4.8 Zonal mean upward sensible heat flux at the surface. Contour interval is 10 W m^{-2} . Negative values are shaded. Values greater than 30 W m^{-2} are dotted.

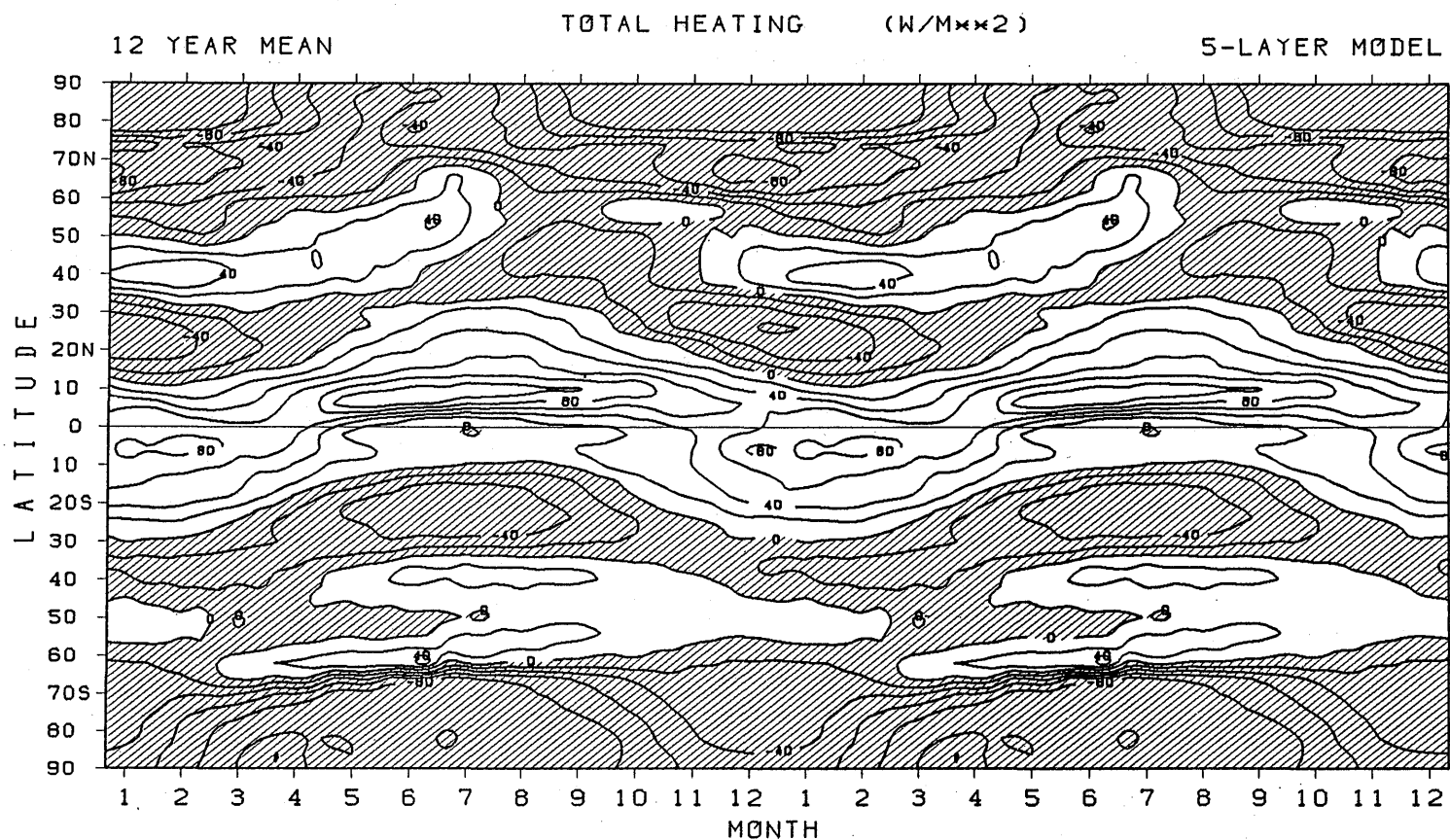


Fig. 4.9 Zonal mean total diabatic heating for the total air column. Contour interval is 20 W m^{-2} . Negative values are shaded.

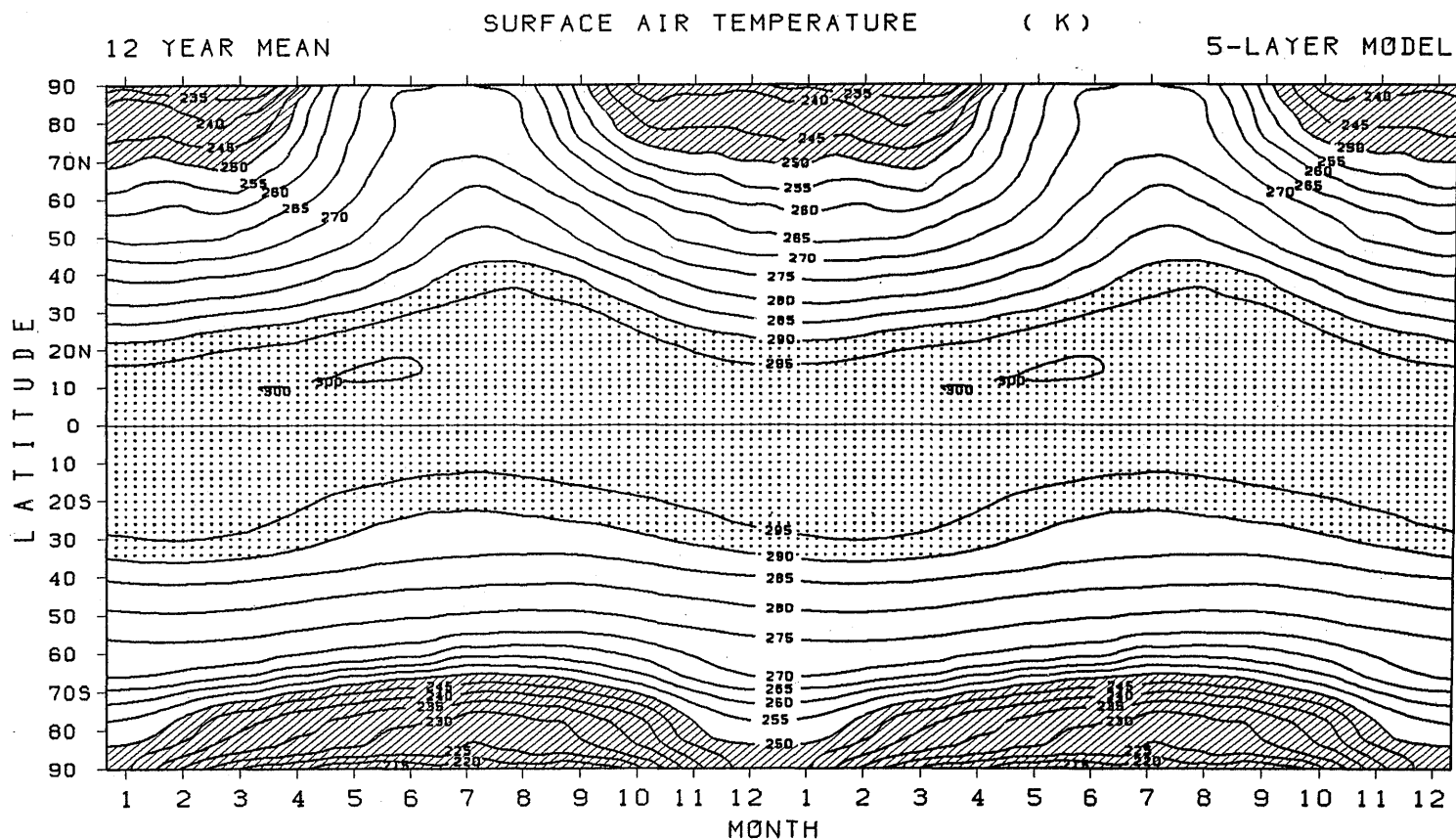


Fig. 4.10 Zonal mean surface air temperature. Contour interval is 5 K. Values greater than 290 K are dotted, those less than 250 K shaded.

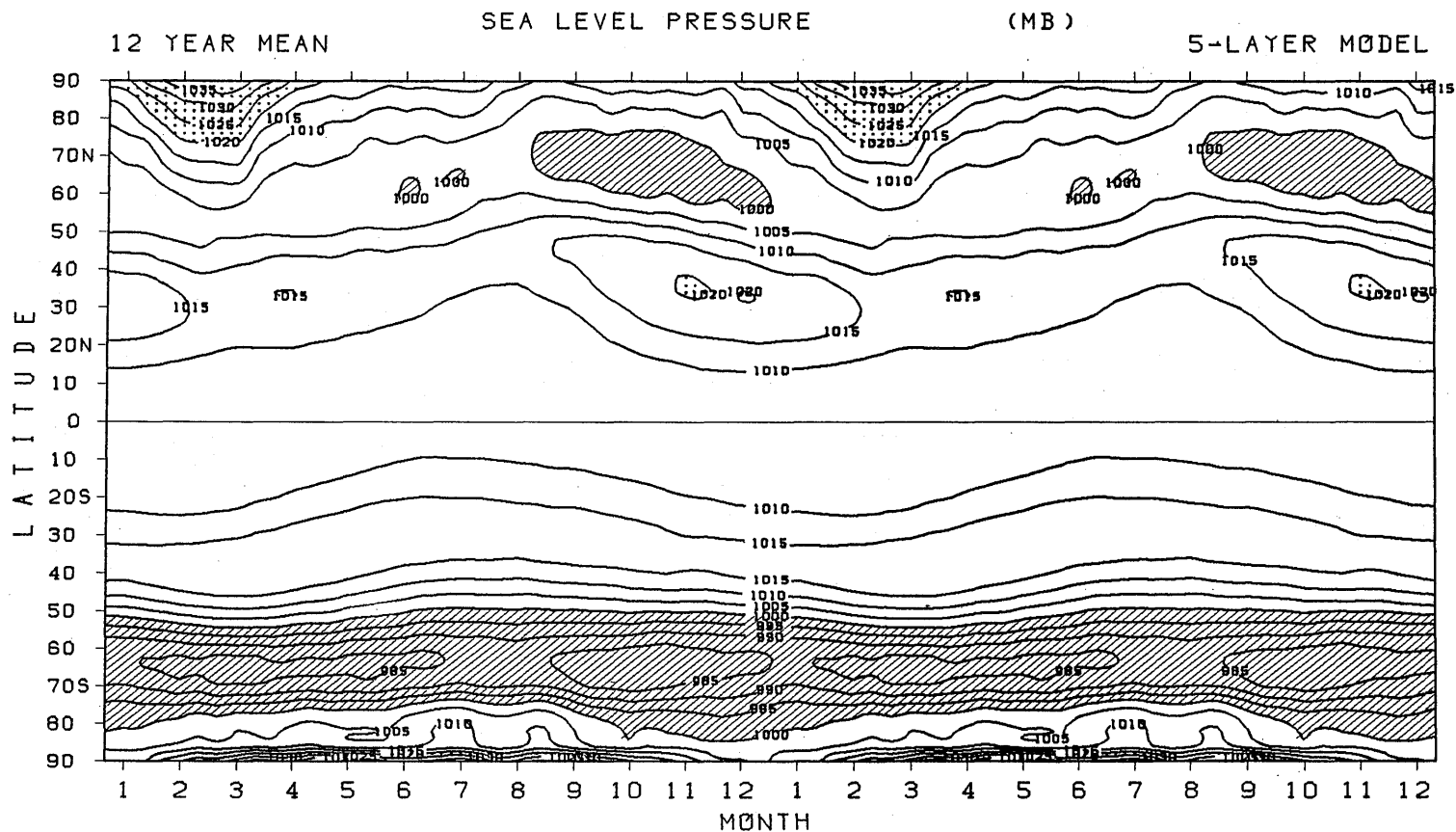


Fig. 4.11.1 Zonal mean sea-level pressure. Contour interval is 5 mb. Values greater than 1020 mb are dotted, those less than 1000 mb shaded.

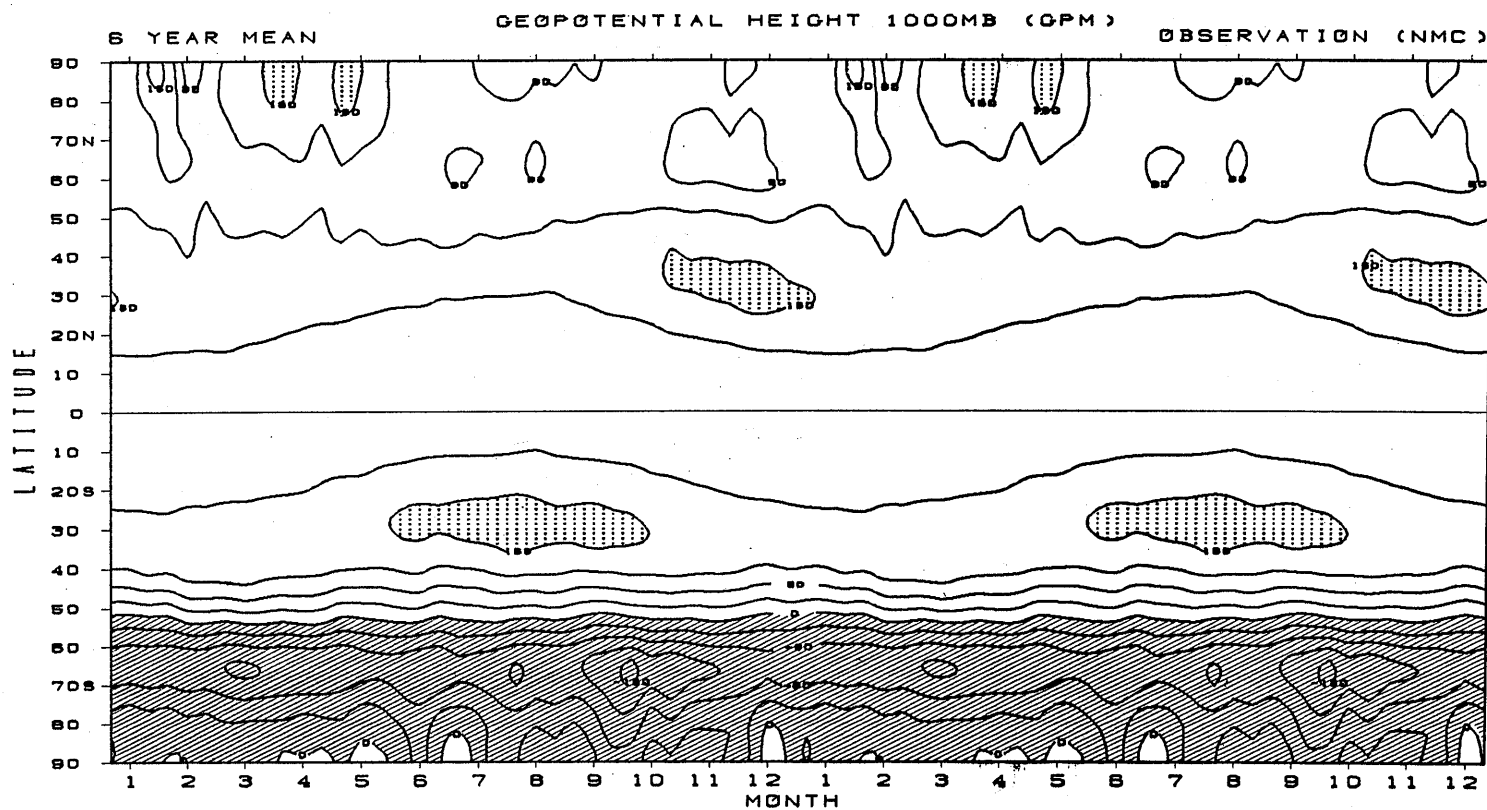


Fig. 4.11.2 Observed zonal mean geopotential height at 1000 mb based on the 6-year NMC analysis. Contour interval is 40 g.p.m. Values greater than 160 g.p.m. are dotted. Negative values are shaded.

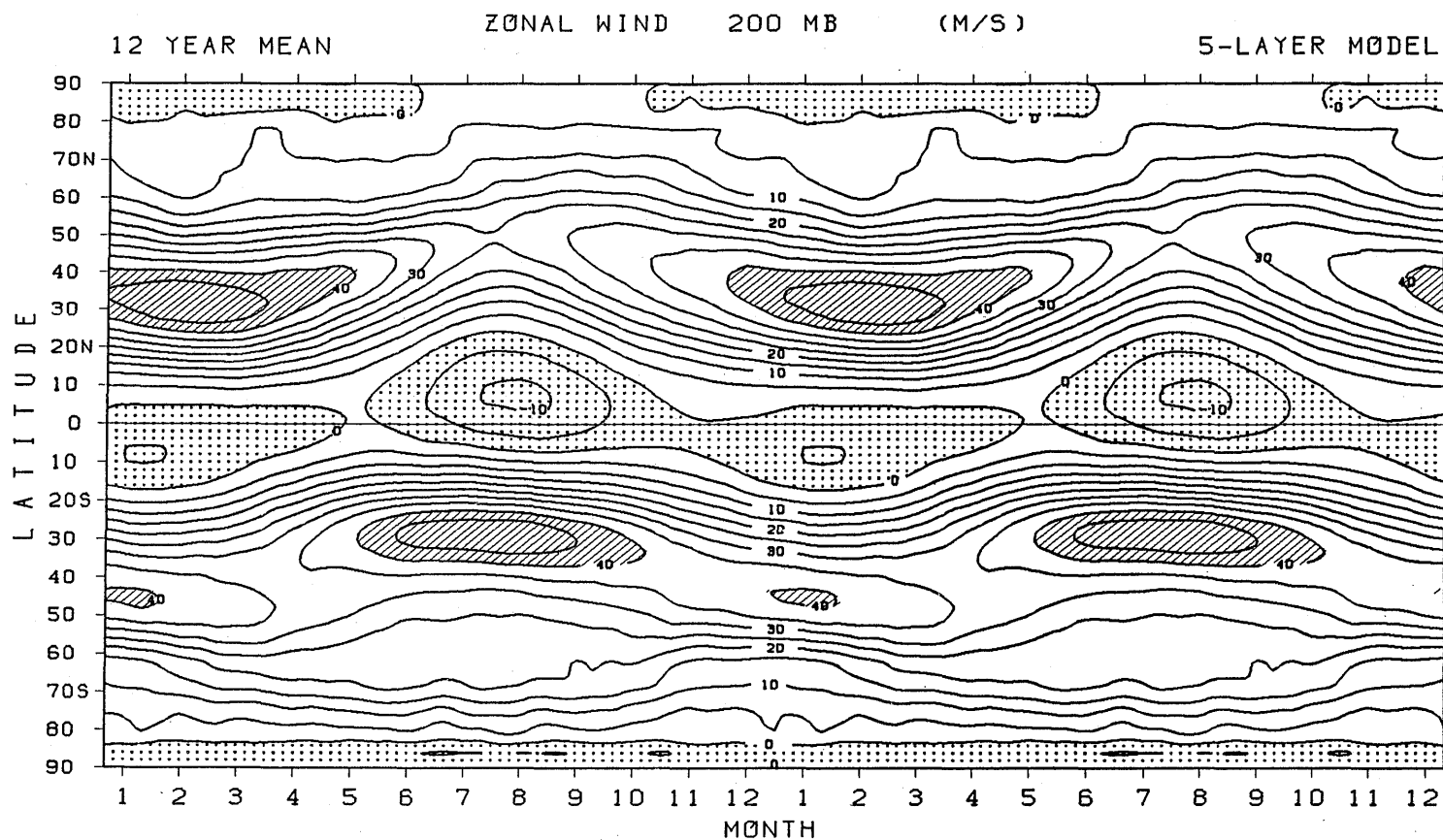


Fig. 4.12.1 Zonal mean zonal wind speed at 200 mb. Contour interval is 5 m s^{-1} . Values greater than 40 m s^{-1} are shaded. Negative values (easterlies) are dotted.

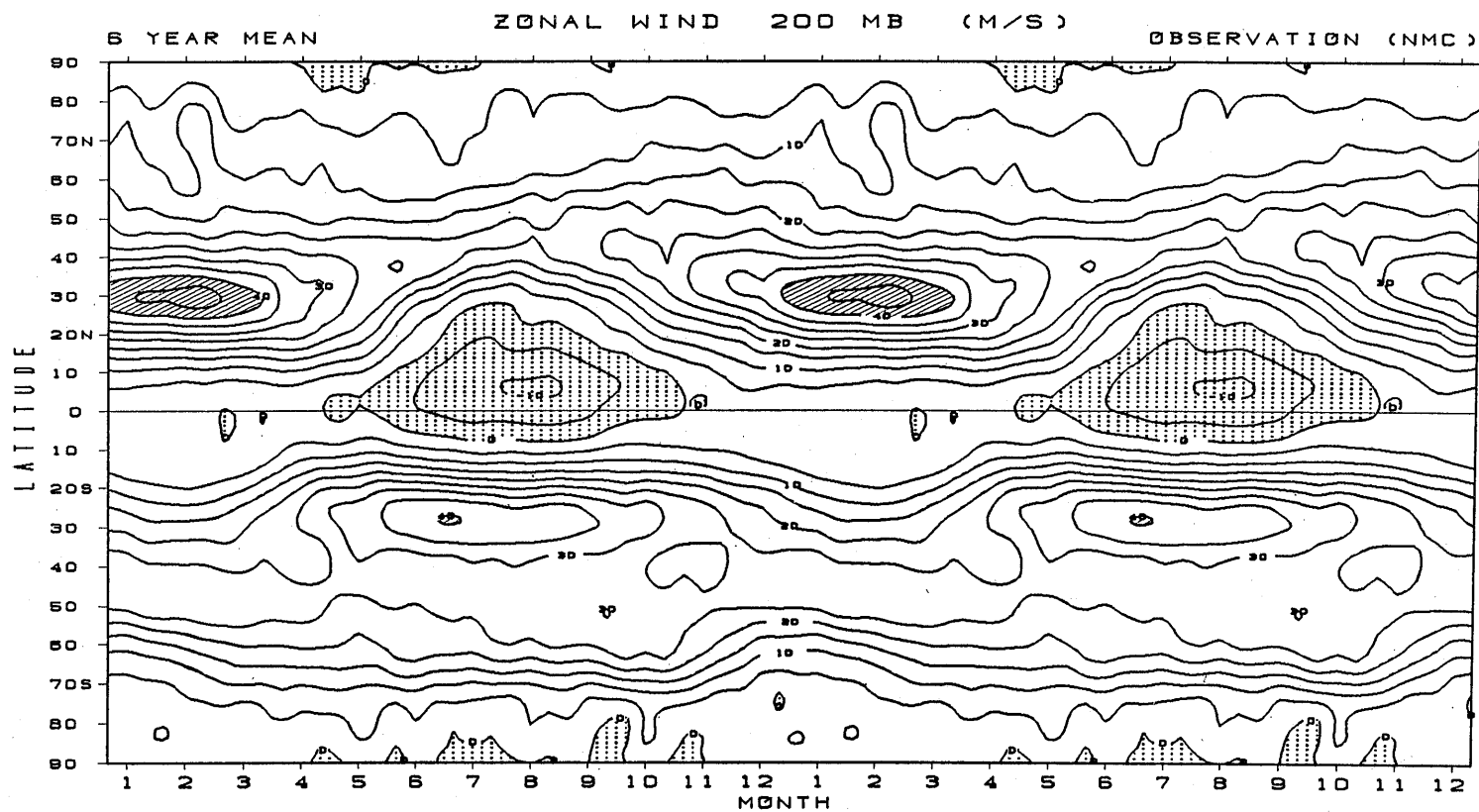


Fig. 4.12.2 Same as in Fig. 4.12.1 except for the observation based on the 6-year NMC analysis.

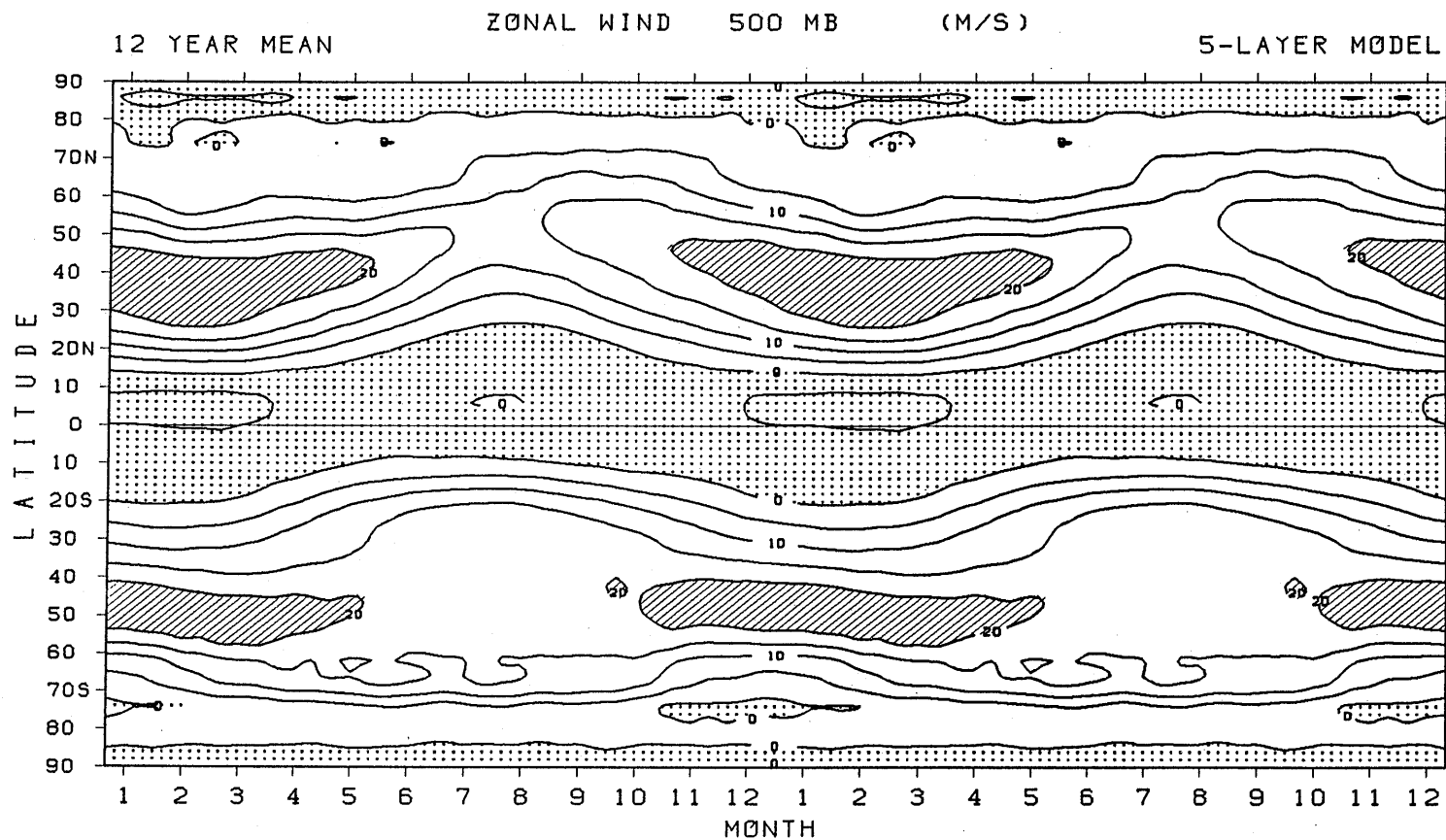


Fig. 4.12.3 Zonal mean zonal wind speed at 500 mb. Contour interval is 5 m s^{-1} . Values greater than 20 m s^{-1} are shaded. Negative values (easterlies) are dotted.

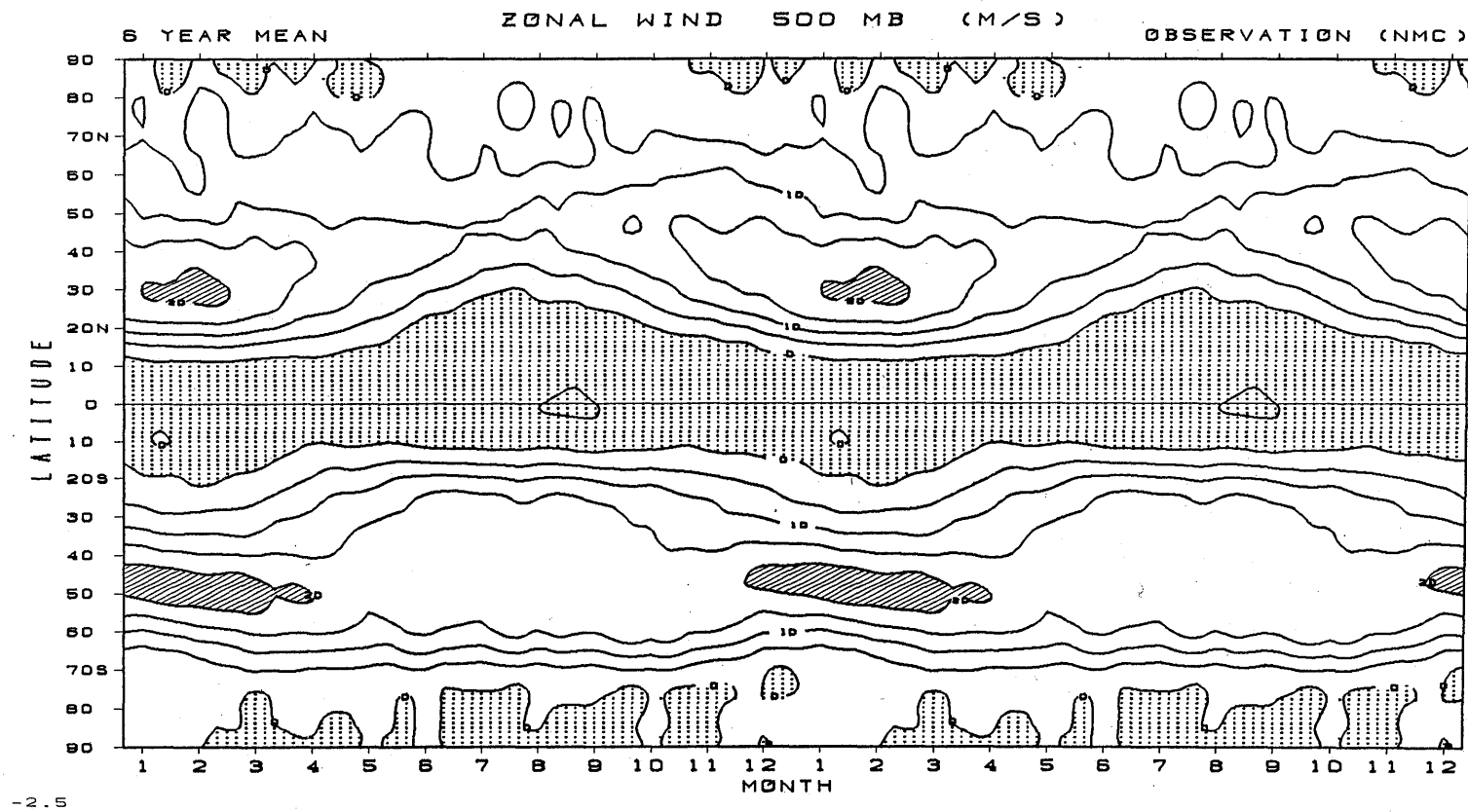


Fig. 4.12.4 Same as in Fig. 4.12.3 except for the observation based on the 6-year NMC analysis.

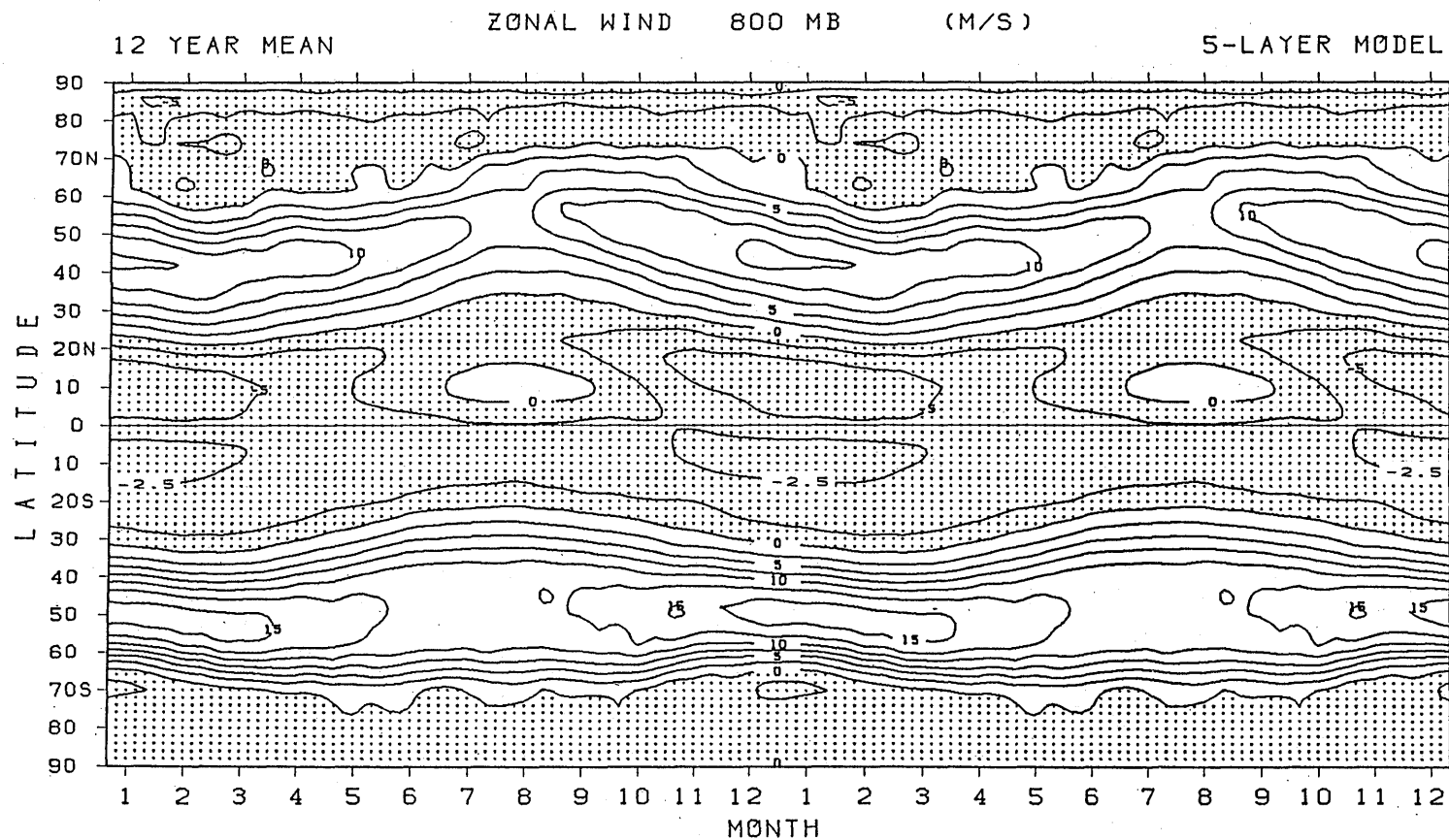


Fig. 4.12.5 Zonal mean zonal wind speed at 800 mb. Contour interval is 2.5 m s^{-1} . Negative values (easterlies) are dotted.

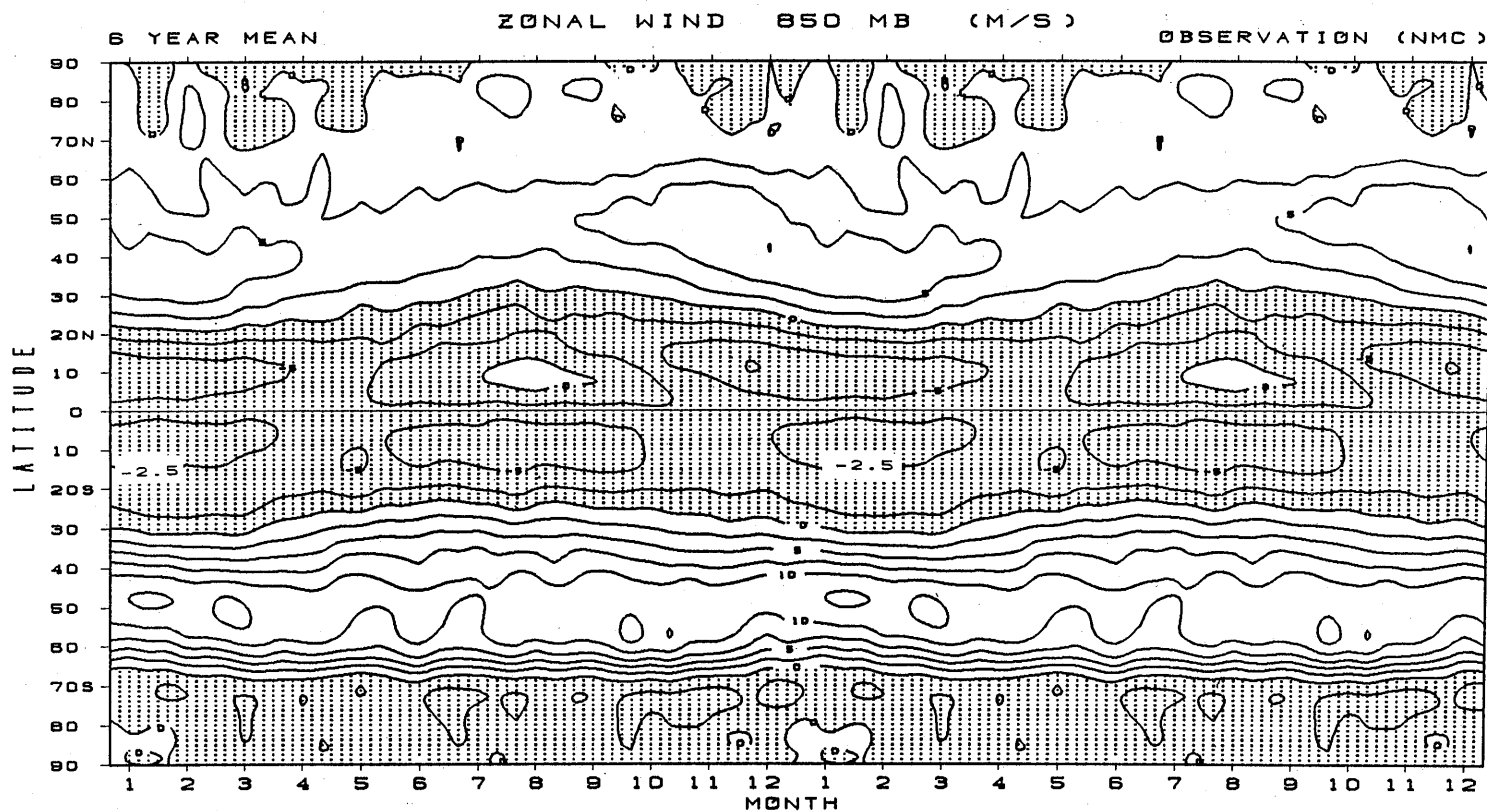


Fig. 4.12.6 Observed zonal mean zonal wind speed at 850 mb based on the 6-year NMC analysis. Contour interval is 2.5 m s^{-1} . Negative values (easterlies) are dotted.

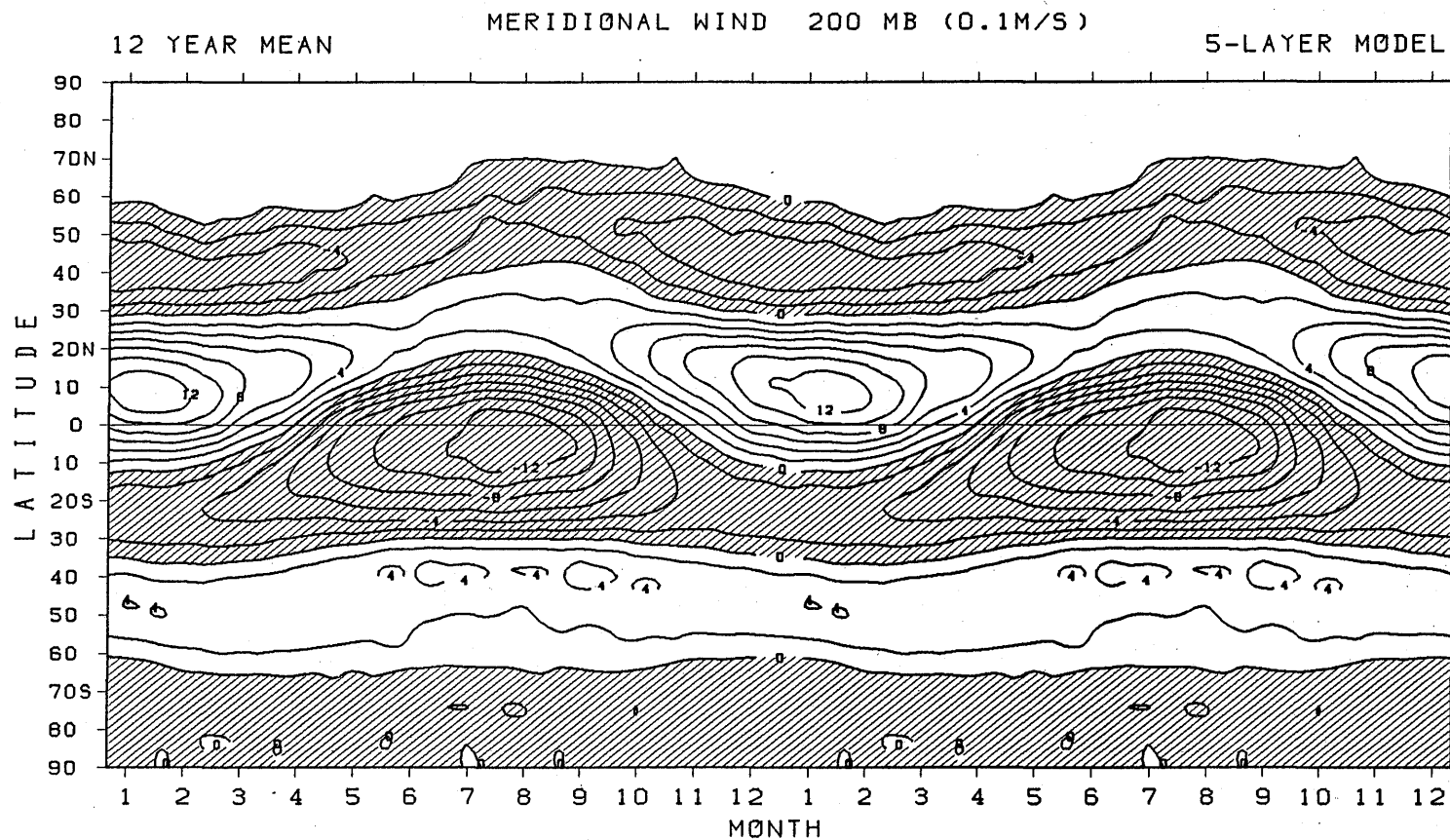


Fig. 4.13.1 Meridional wind speed at 200 mb. Contour interval is 0.2 m s⁻¹. Negative values (northerlies) are shaded.

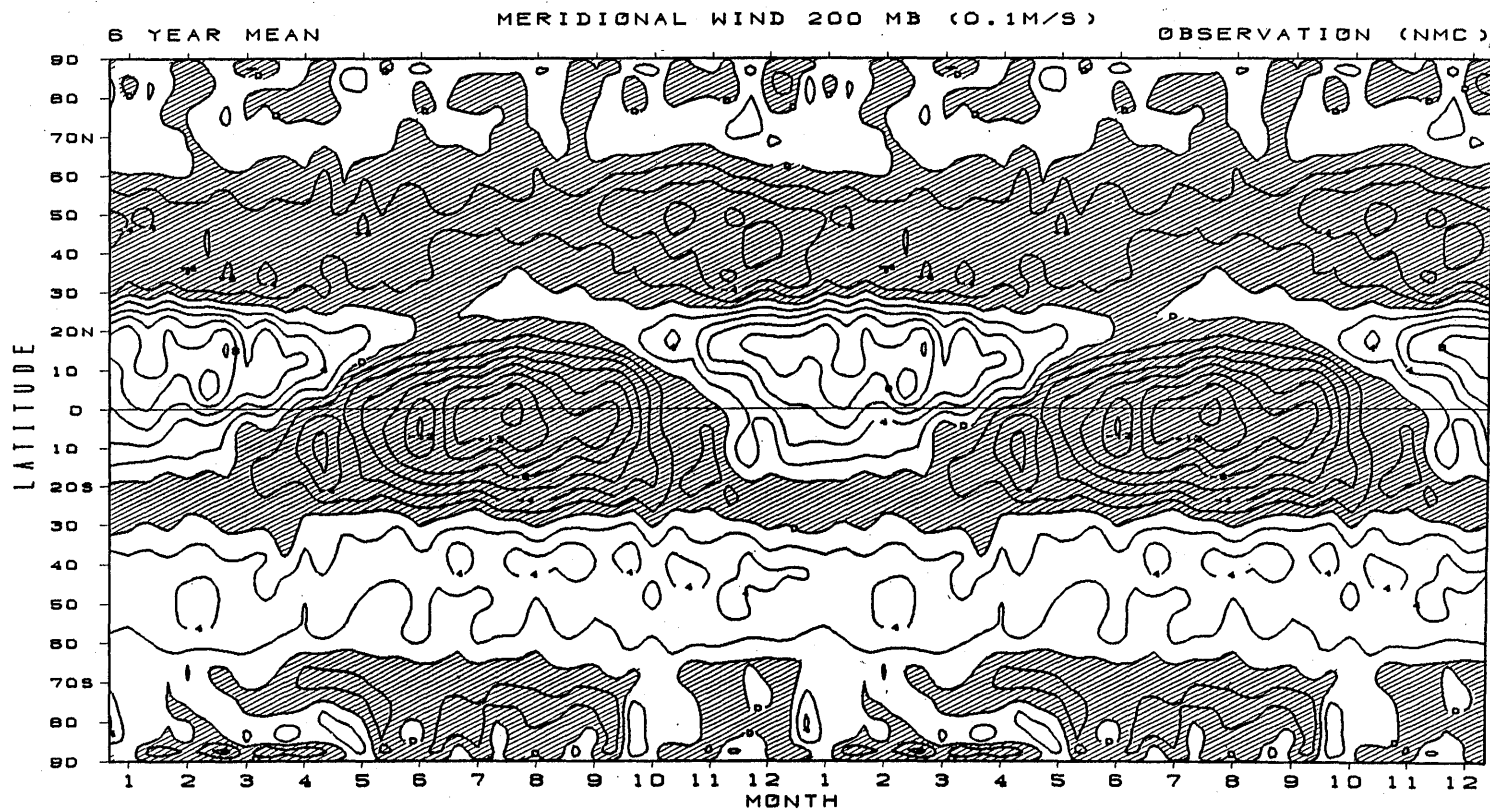


Fig. 4.13.2 Same as in Fig. 4.13.1 except for the observation based on the 6-year NMC analysis.