Chapter 5 : Longitude-time cross sections

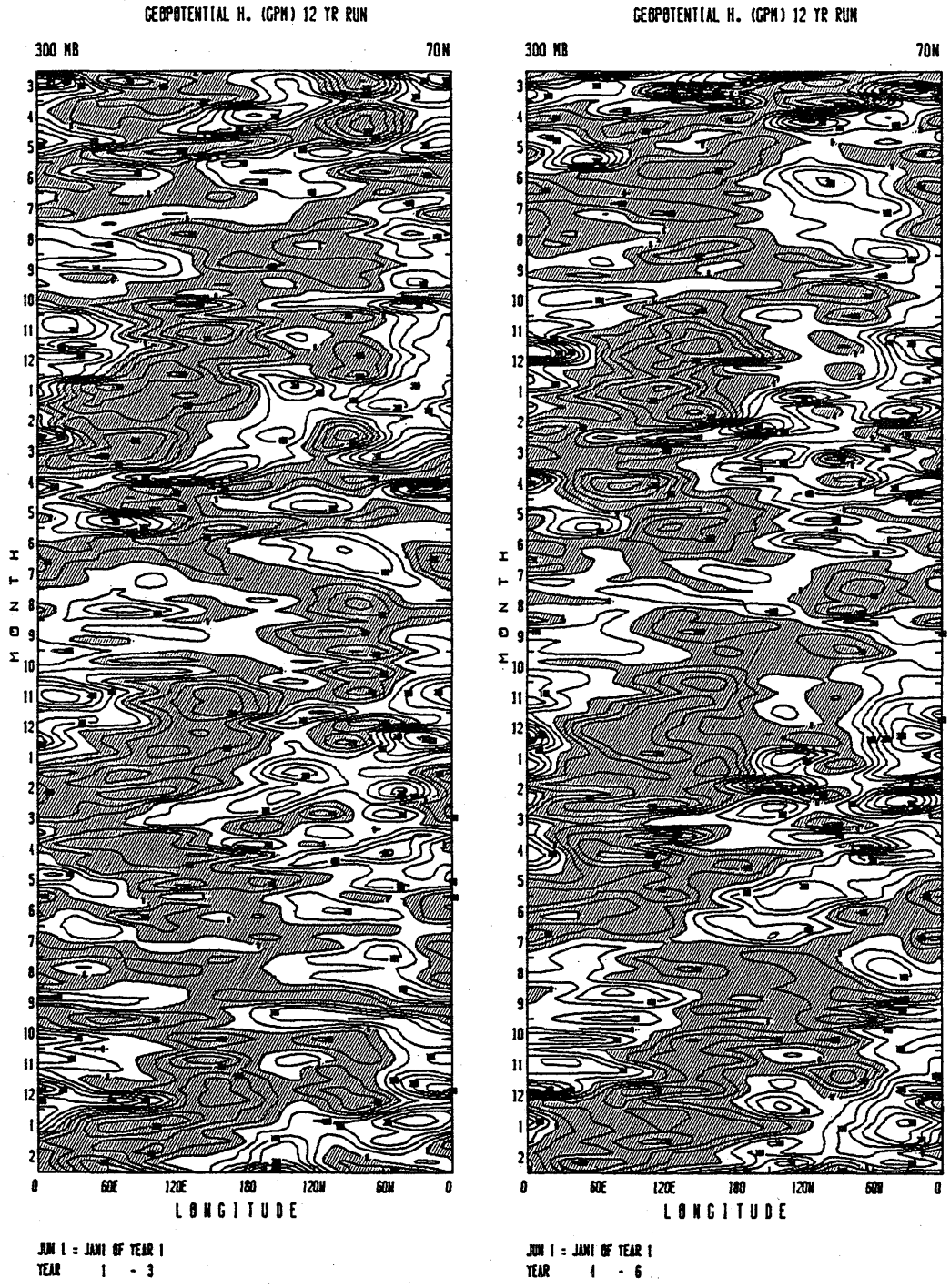

Fig. 5.1.1 Deviation from the zonal mean geopotential height(Z*) at 300 mb, 70° N. Contour interval is 50 g.p.m. Negative values are shaded.

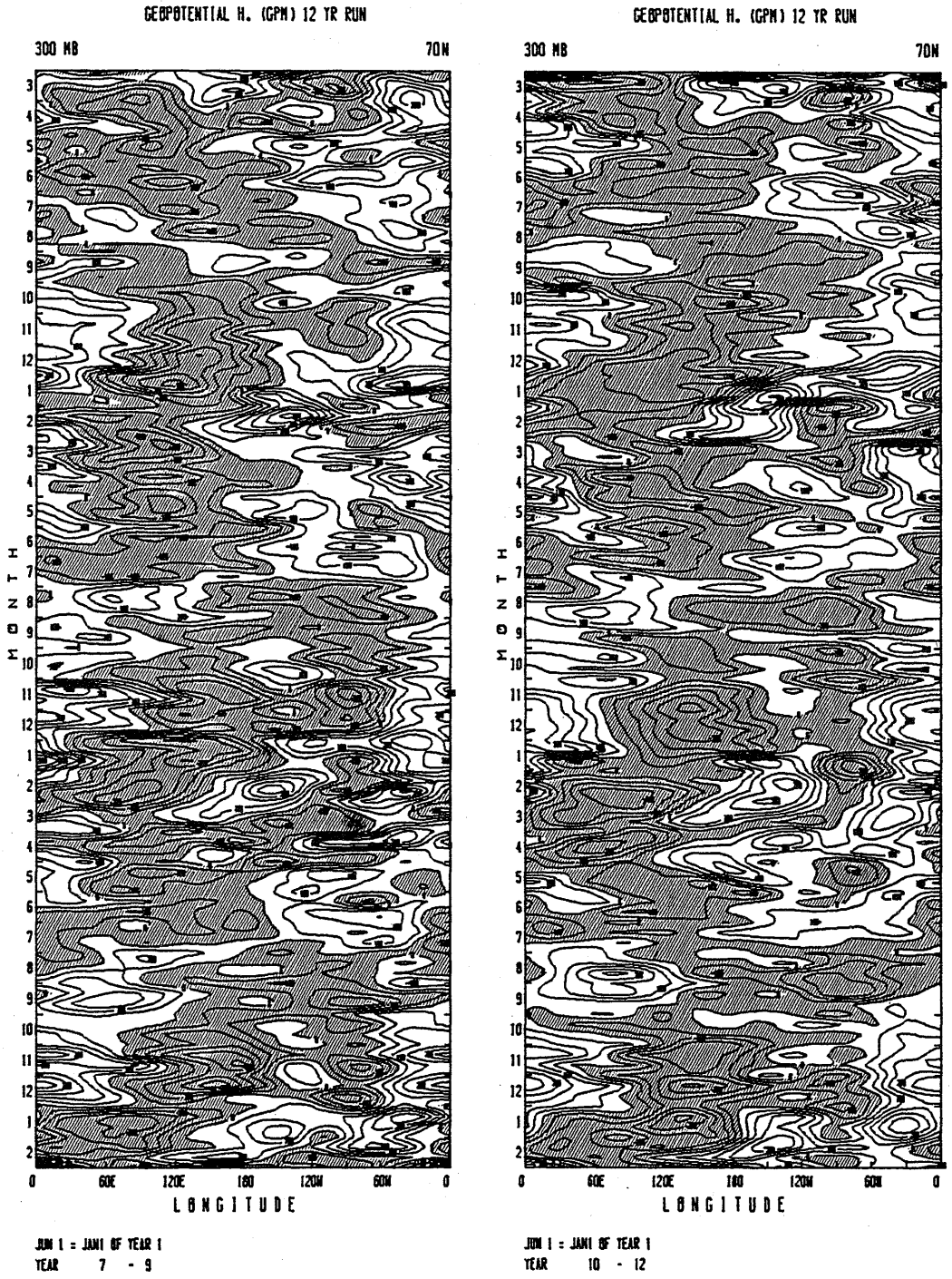

Fig. 5.1.1 (*Continued*)

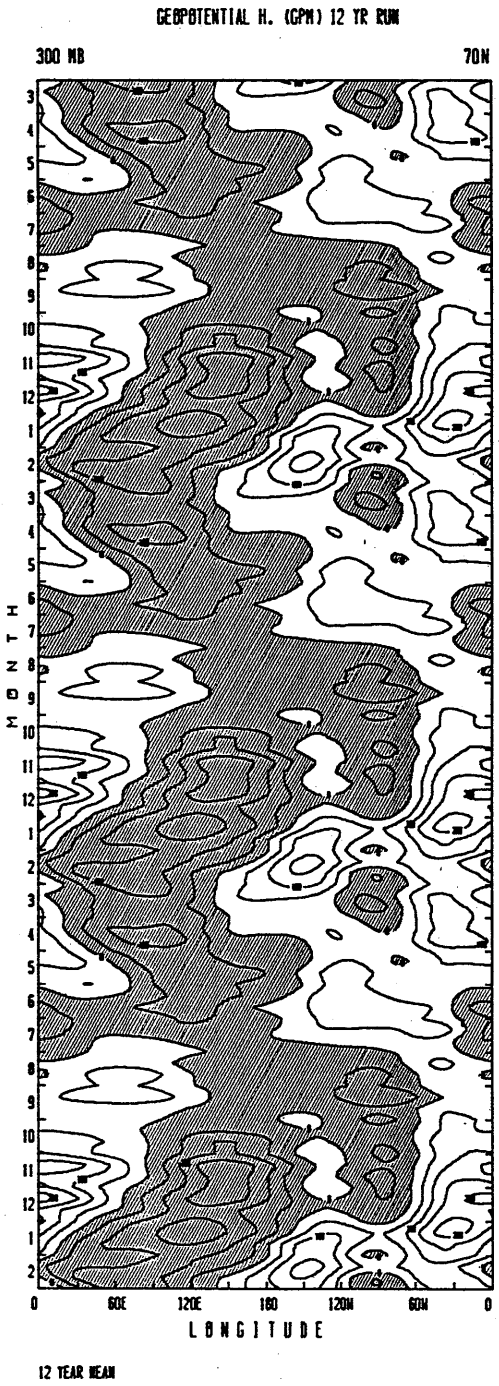

Fig. 5.1.2 12-year mean of the deviation from the zonal mean geopotential height at 300 mb, 70° N. Contour interval is 50 g.p.m. Negative values are shaded.

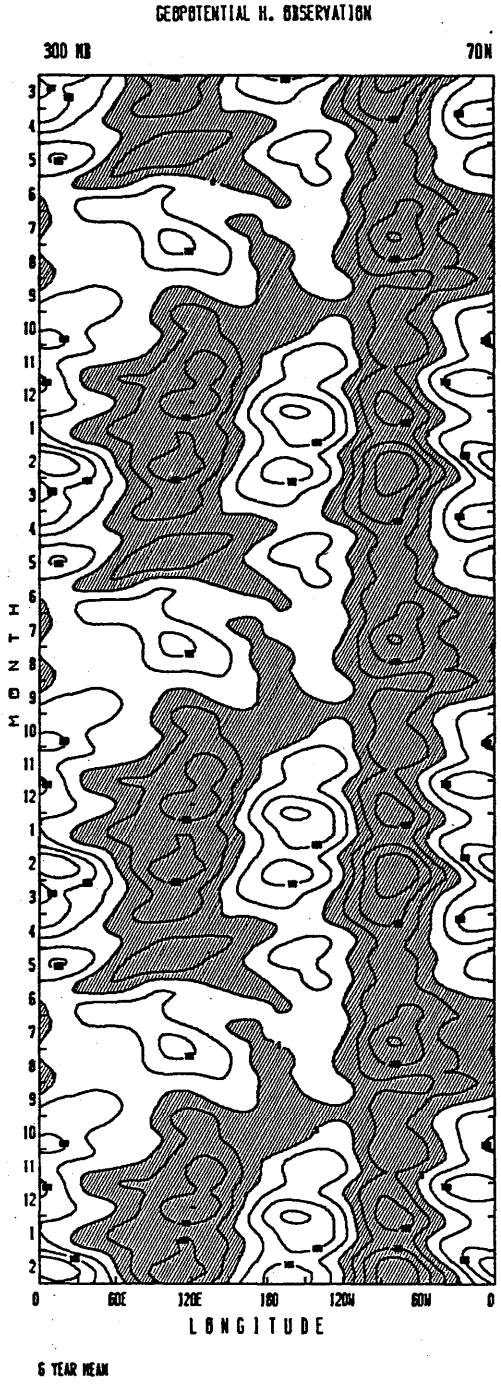

Fig. 5.1.3 Same as in Fig. 5.1.2 except for observation. The observation is based on the 6-year NMC analysis during the period 1978-1983.

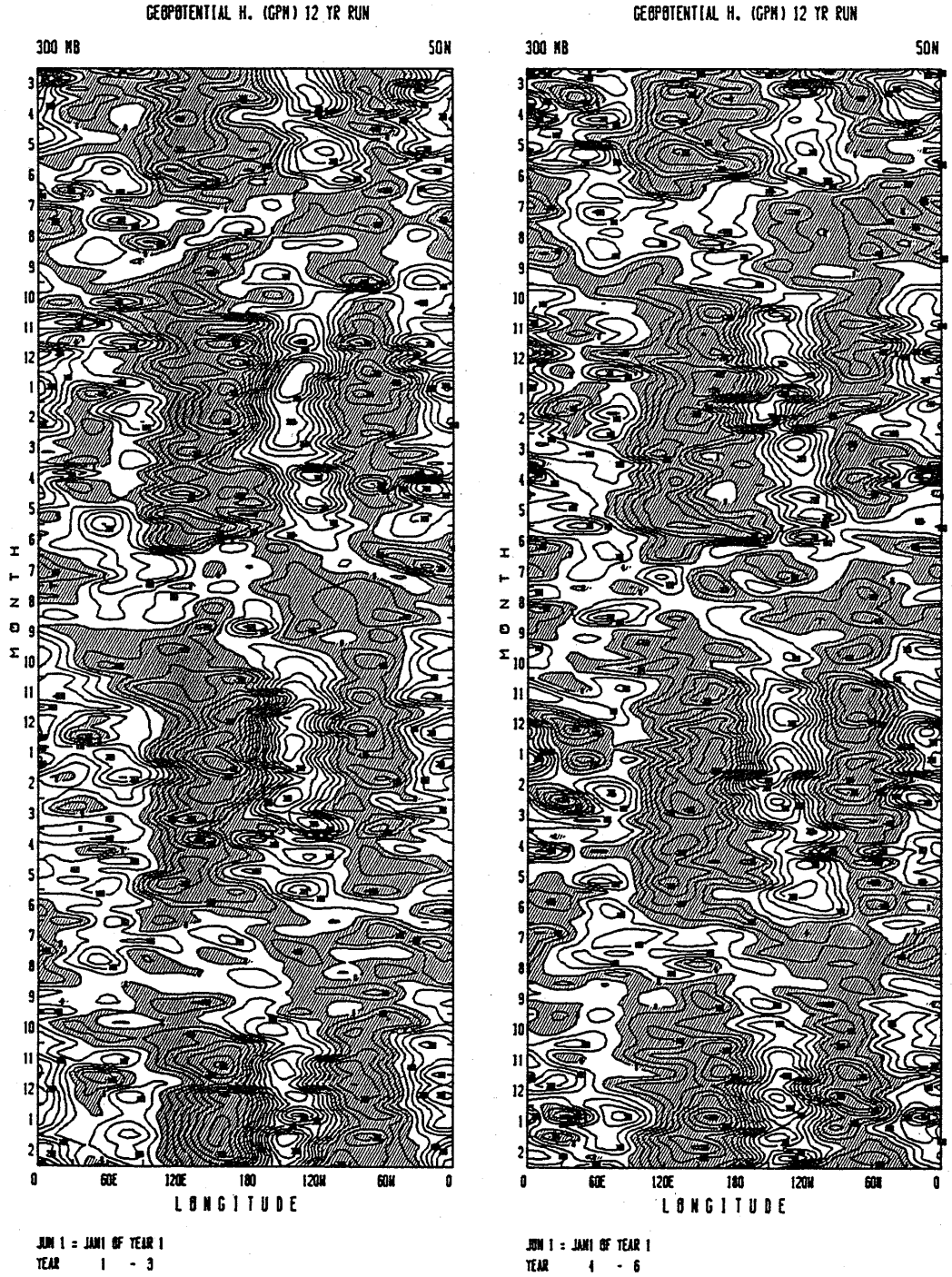

Fig. 5.1.4 Same as in Fig. 5.1.1 except for 50° N.

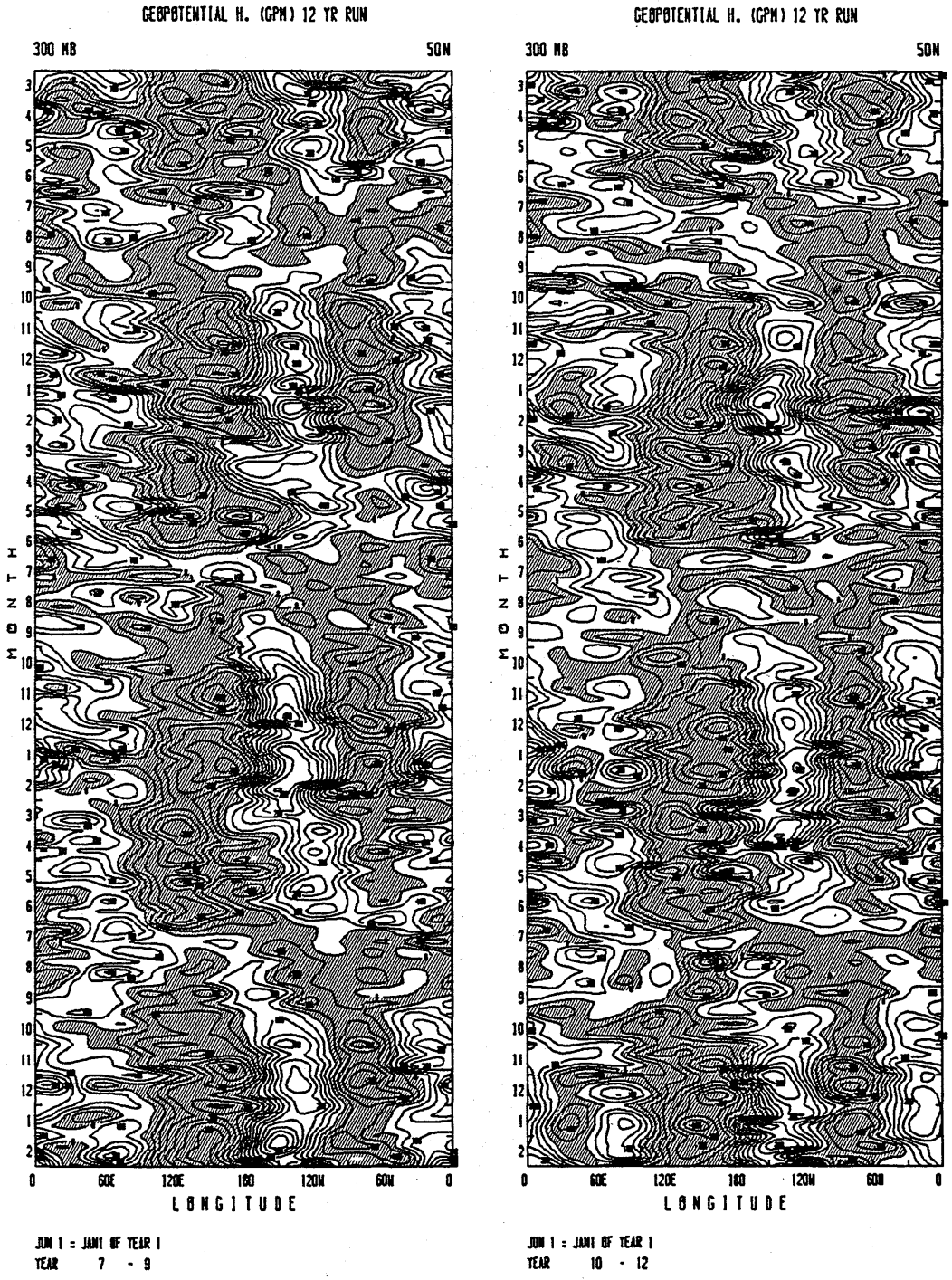

Fig. 5.1.4 (*Continued*)

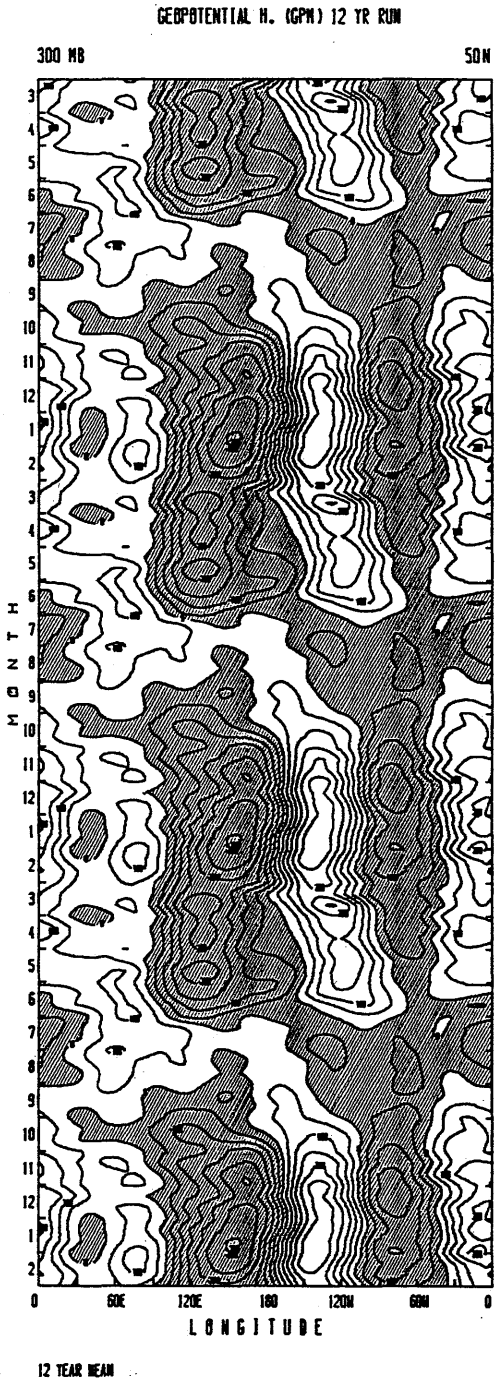

Fig. 5.1.5 Same as in Fig. 5.1.2 except for 50° N.

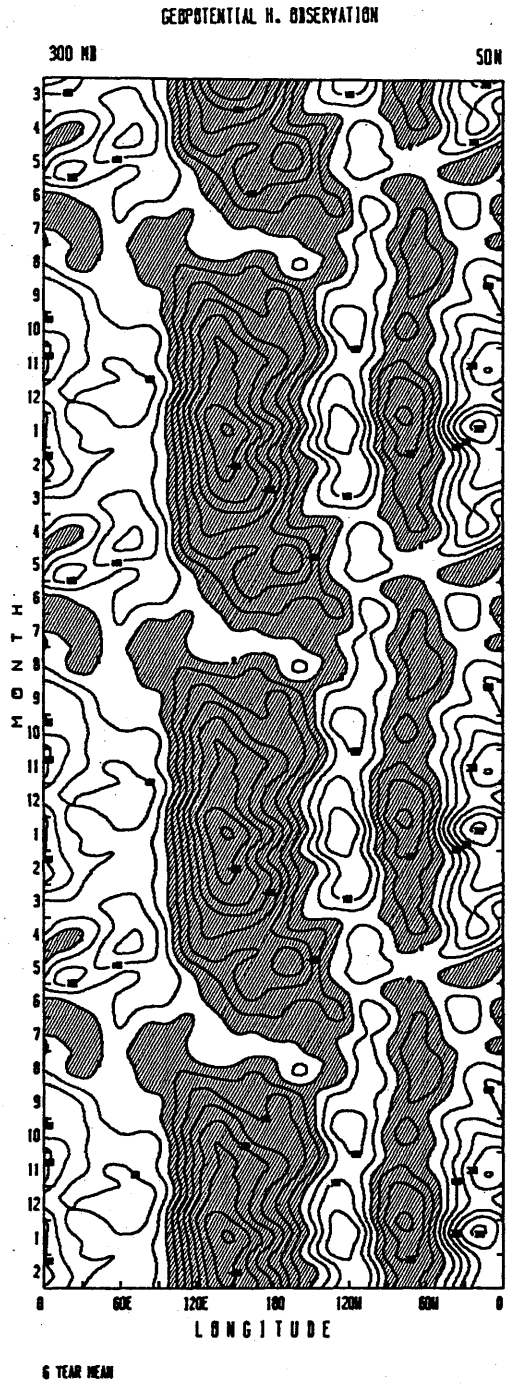

Fig. 5.1.6 Same as in Fig. 5.1.3 except for 50° N.

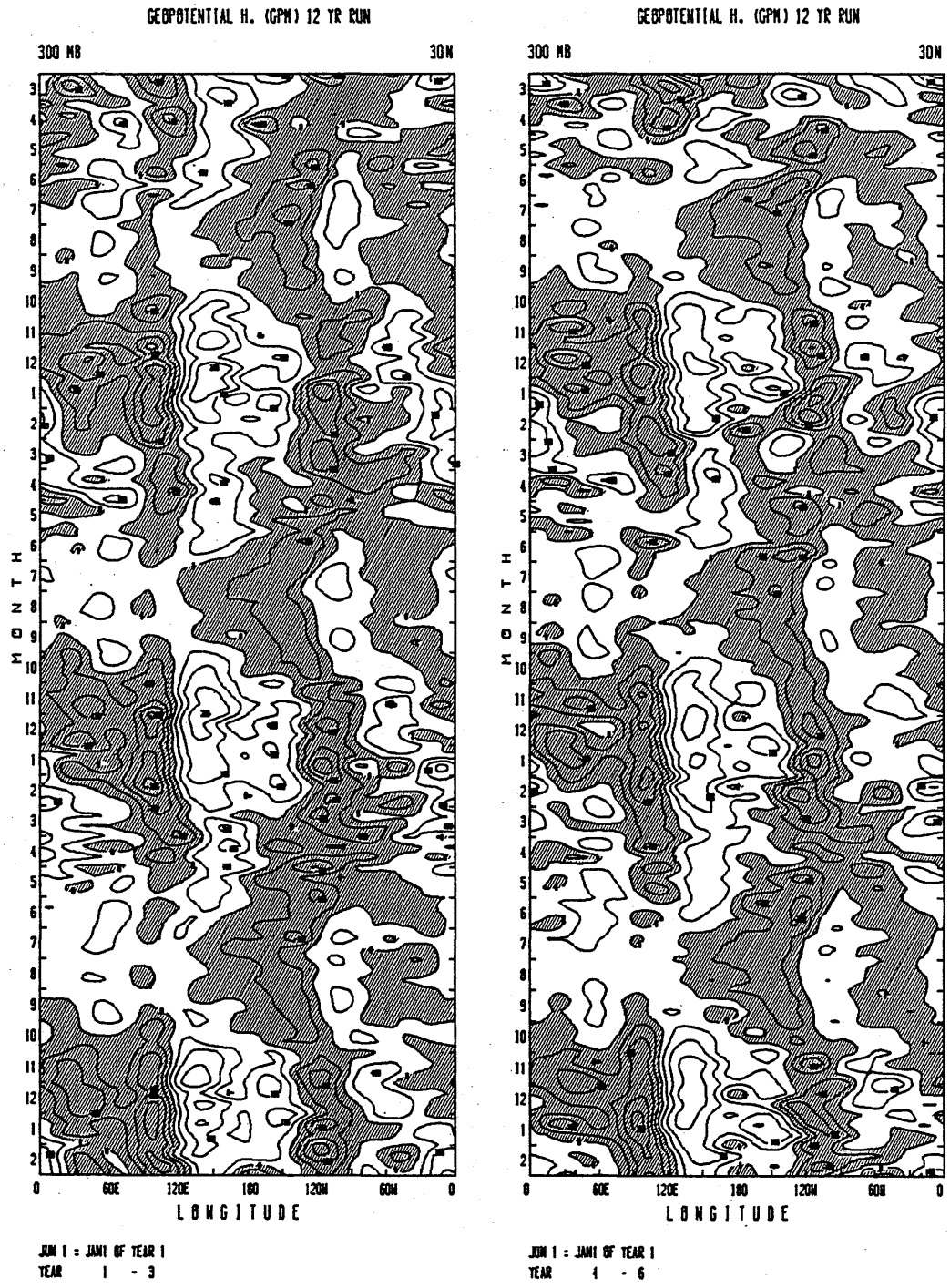

Fig. 5.1.7 Same as in Fig. 5.1.1 except for 30° N.

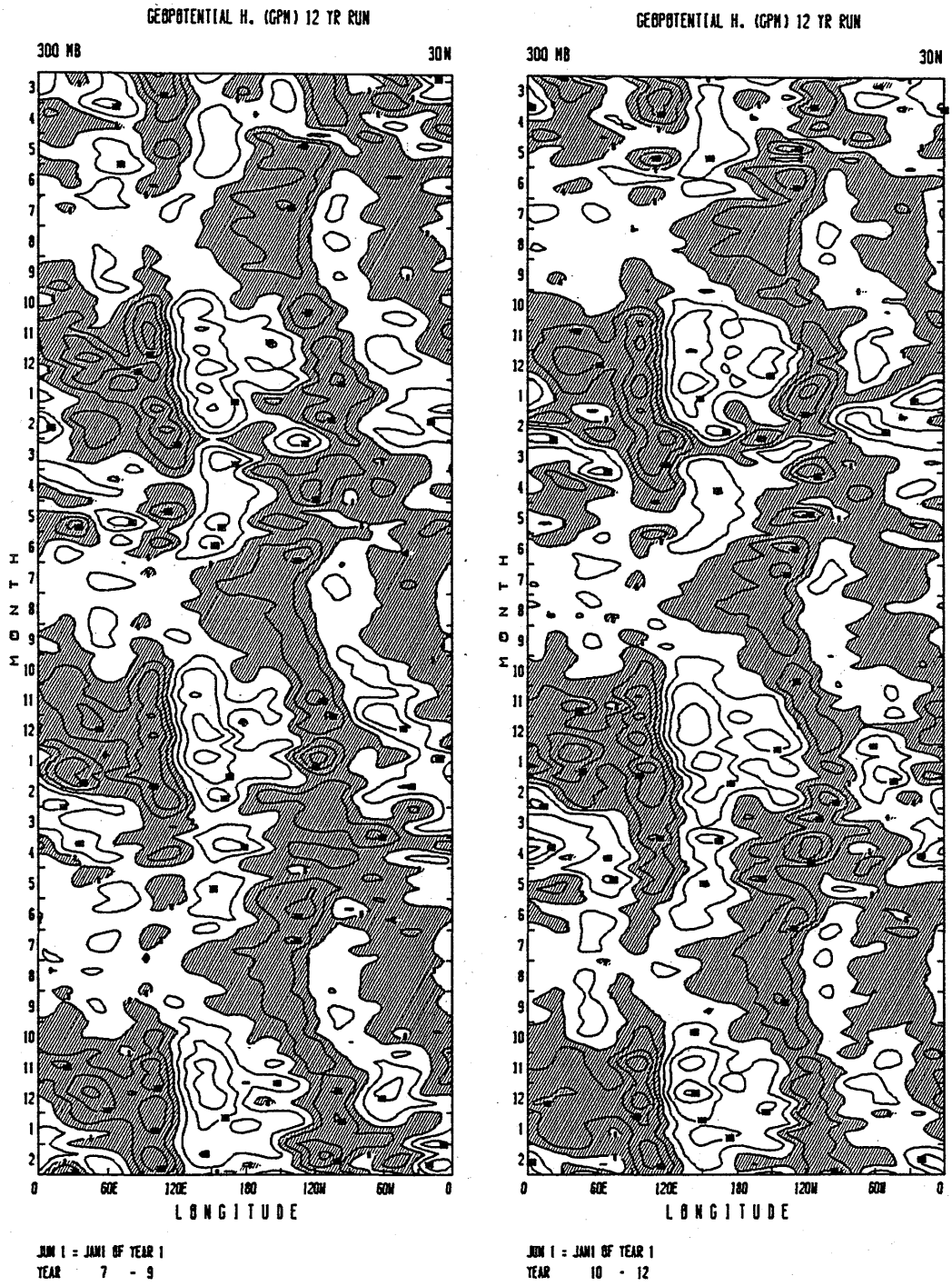

Fig. 5.1.7 (*Continued*)

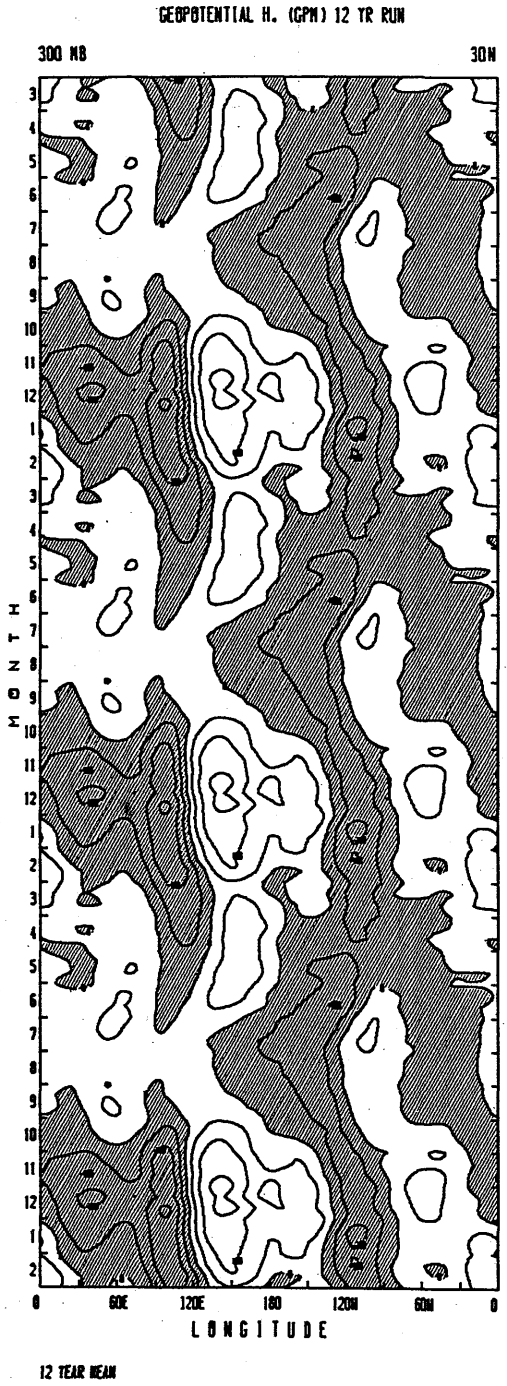

Fig. 5.1.8 Same as in Fig. 5.1.2 except for 30° N.

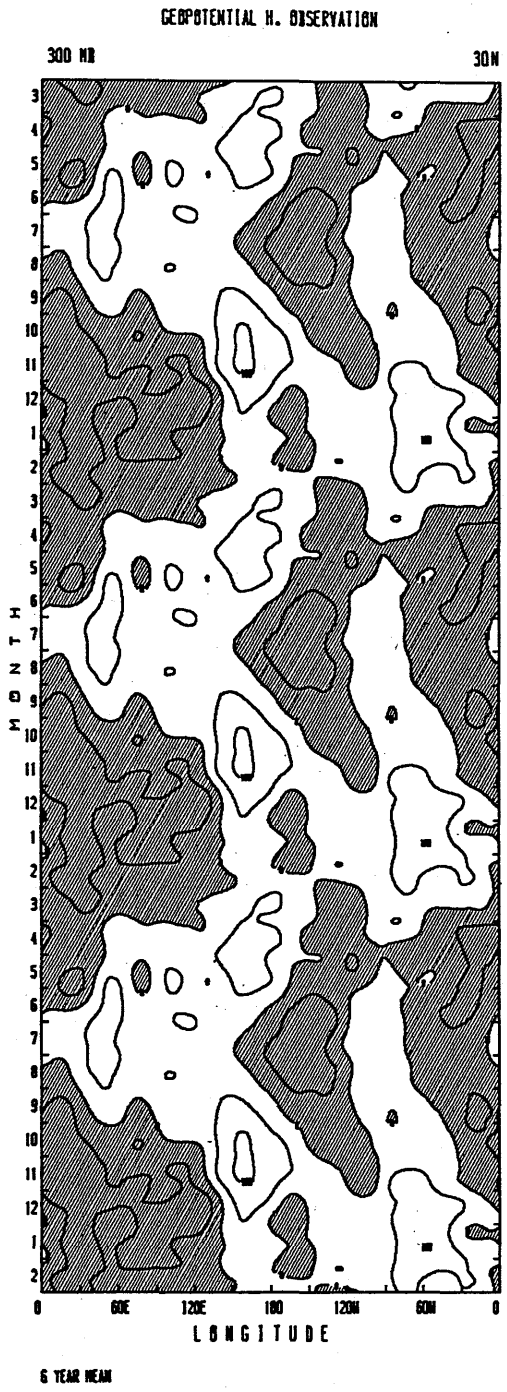

Fig. 5.1.9 Same as in Fig. 5.1.3 except for 30° N.

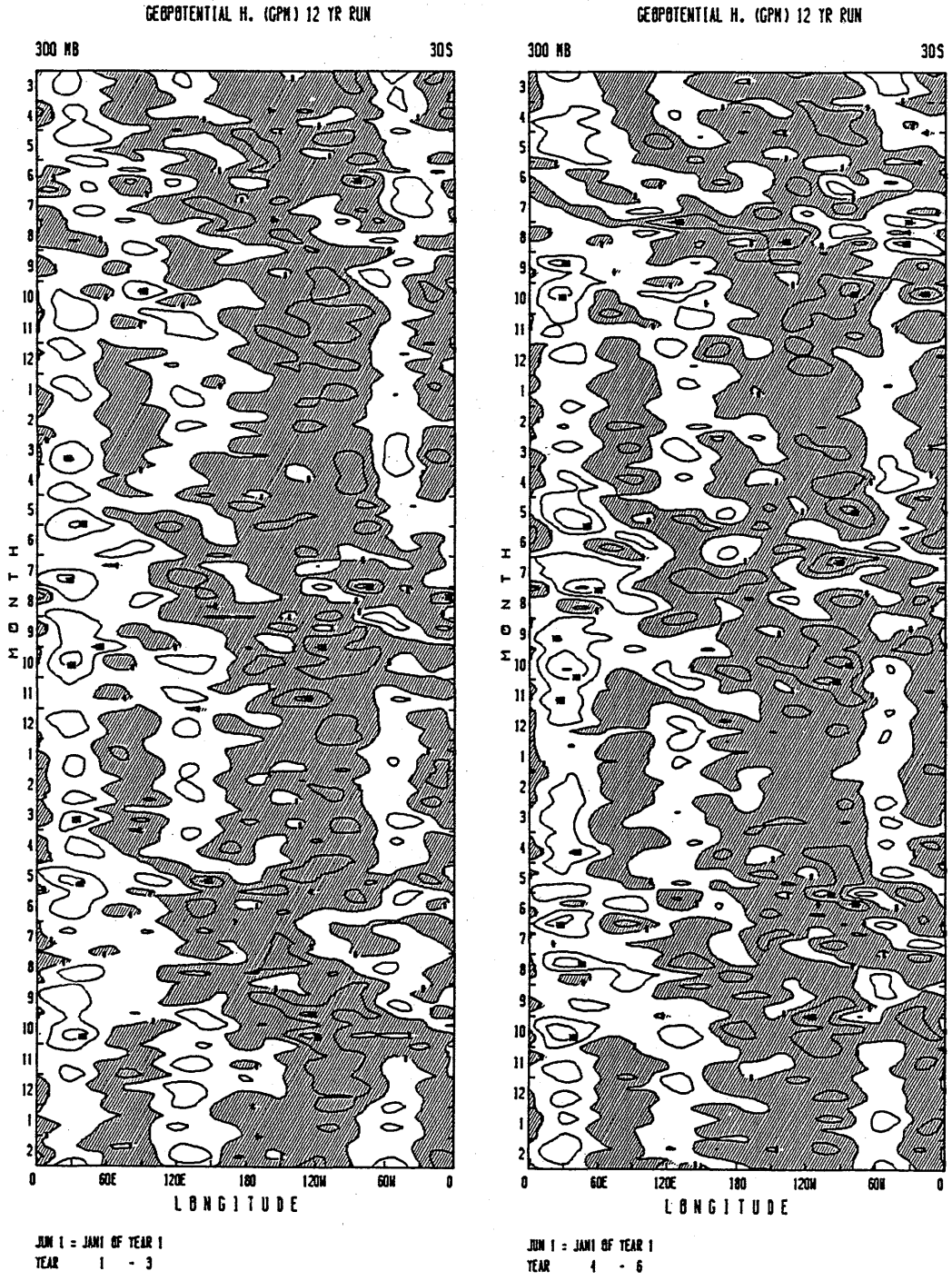

Fig. 5.1.10 Same as in Fig. 5.1.1 except for 30° S.

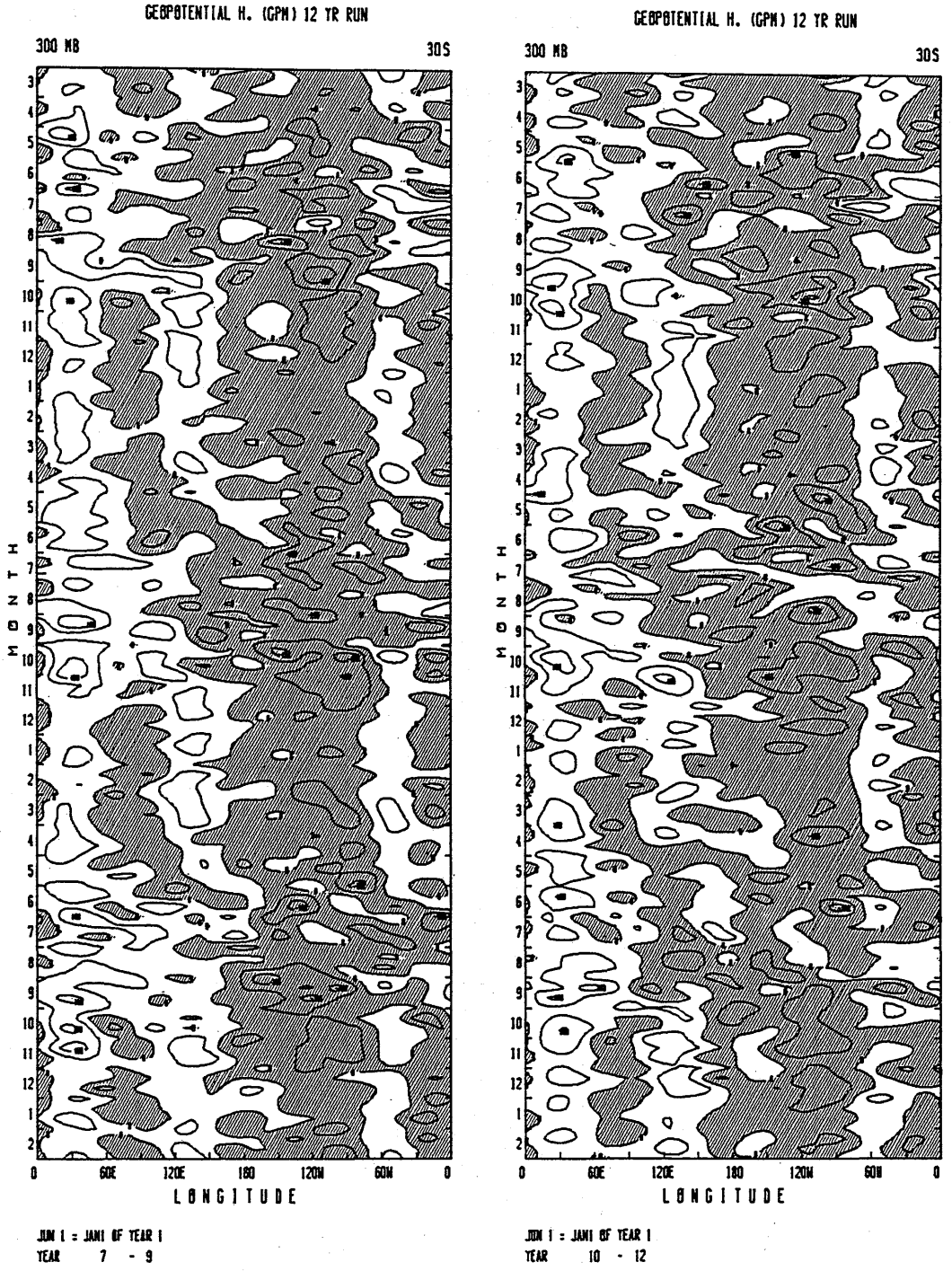

Fig. 5.1.10 (*Continued*)

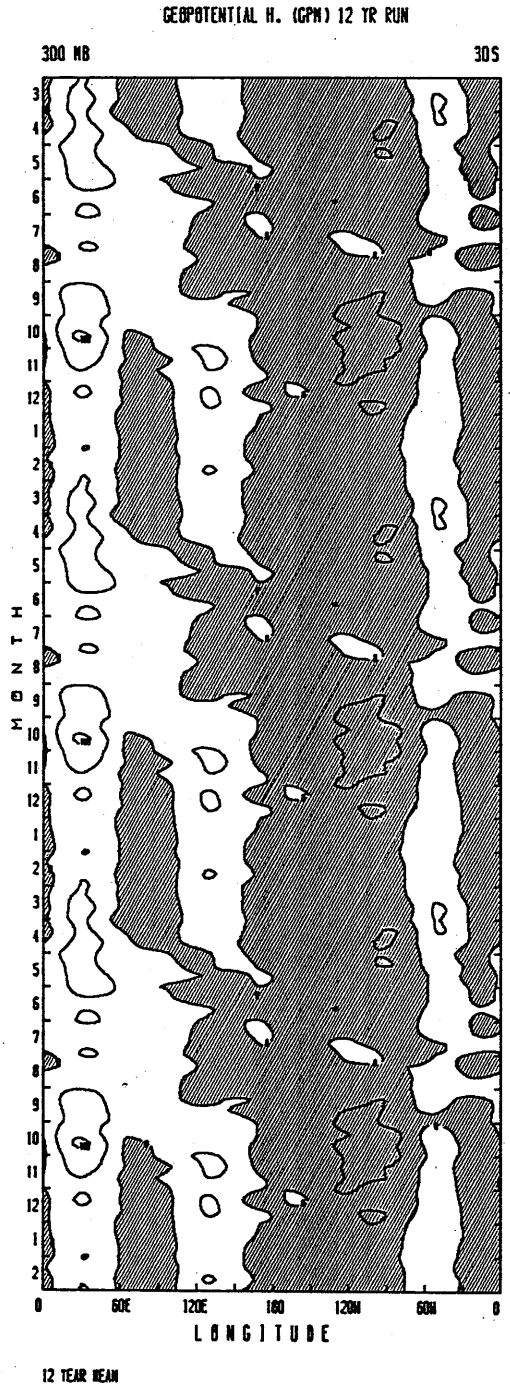

Fig. 5.1.11 Same as in Fig. 5.1.2 except for 30° S.

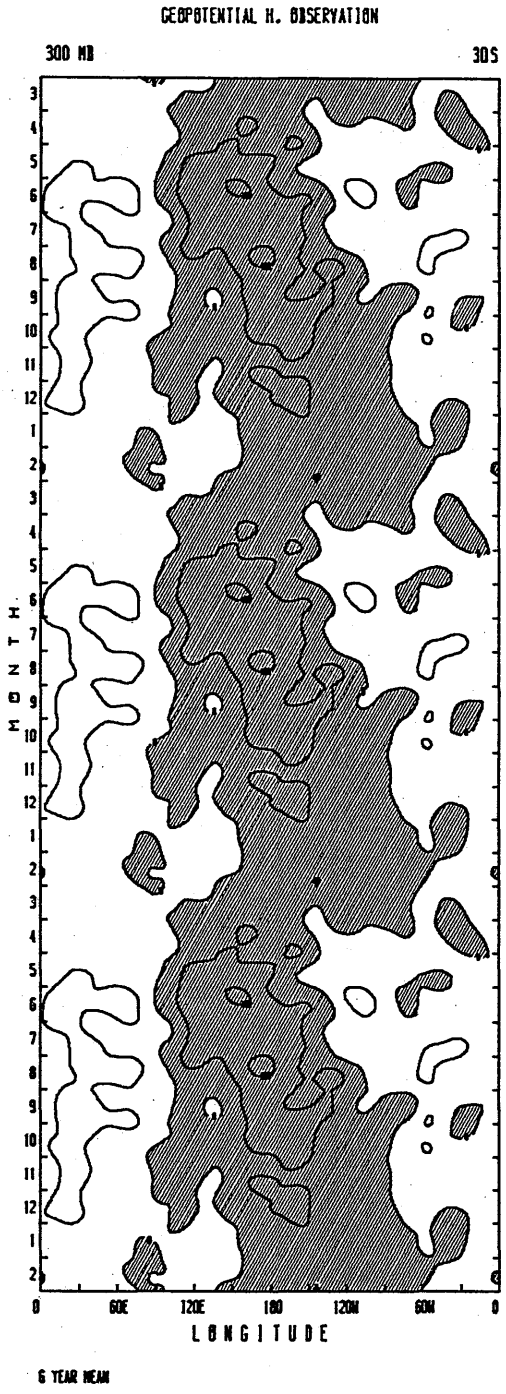

Fig. 5.1.12 Same as in Fig. 5.1.3 except for 30° S.

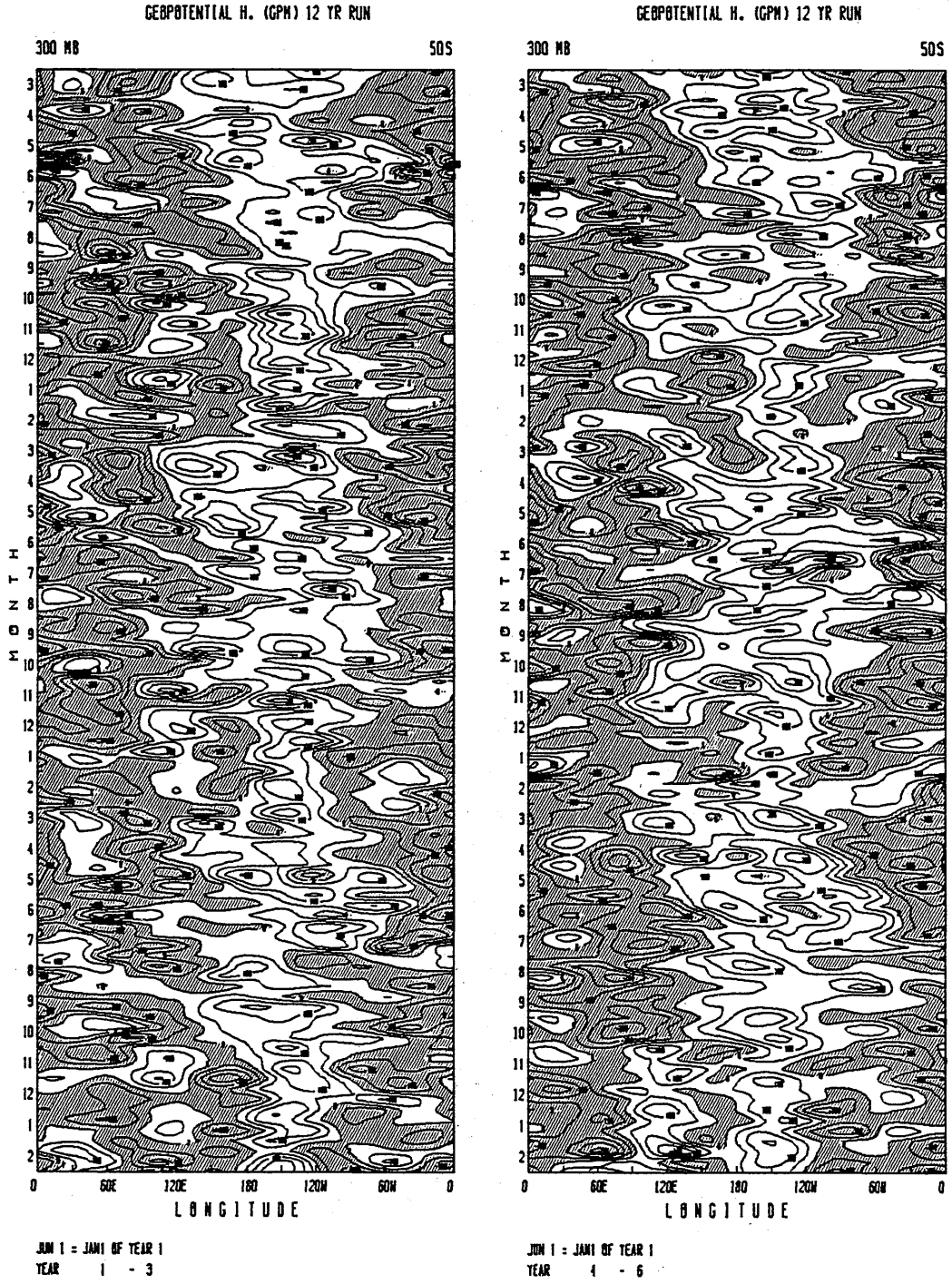

Fig. 5.1.13 Same as in Fig. 5.1.1 except for 50° S.

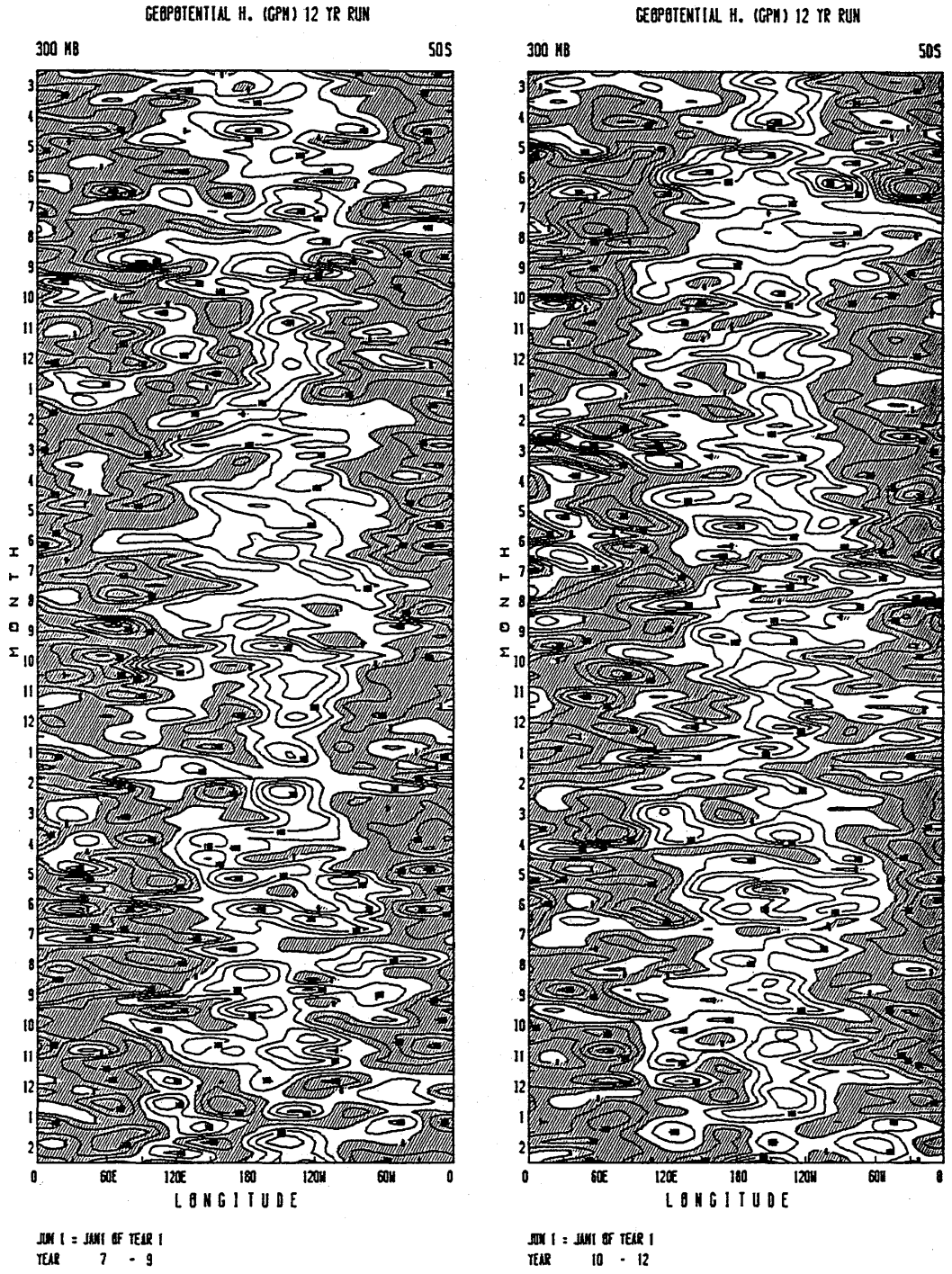

Fig. 5.1.13 (*Continued*)

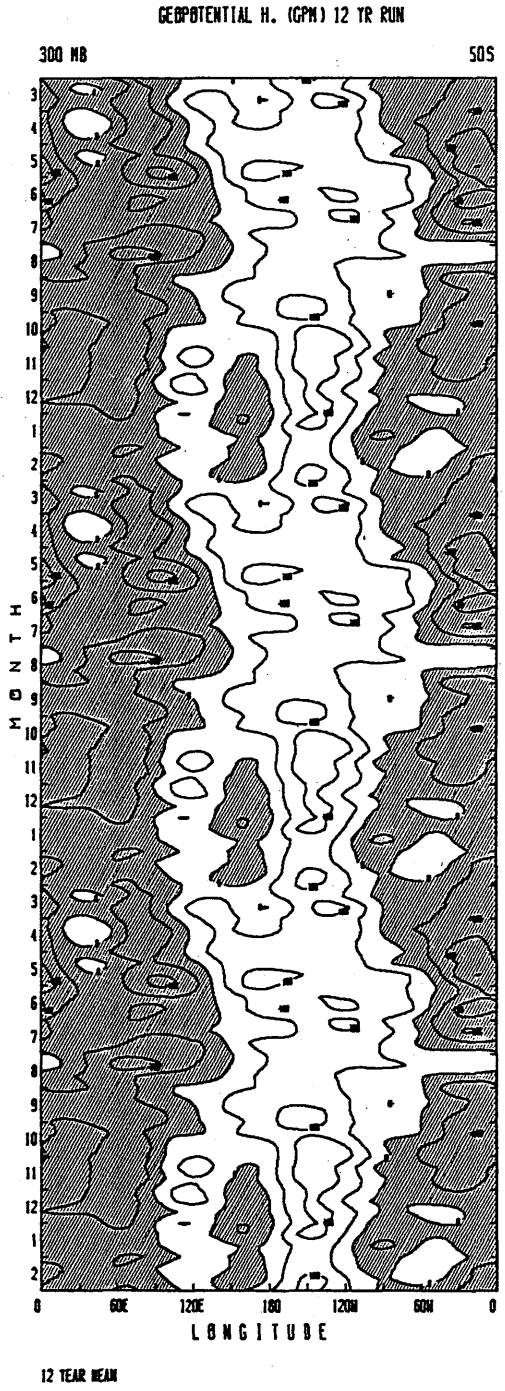

Fig. 5.1.14 Same as in Fig. 5.1.2 except for 50° S.

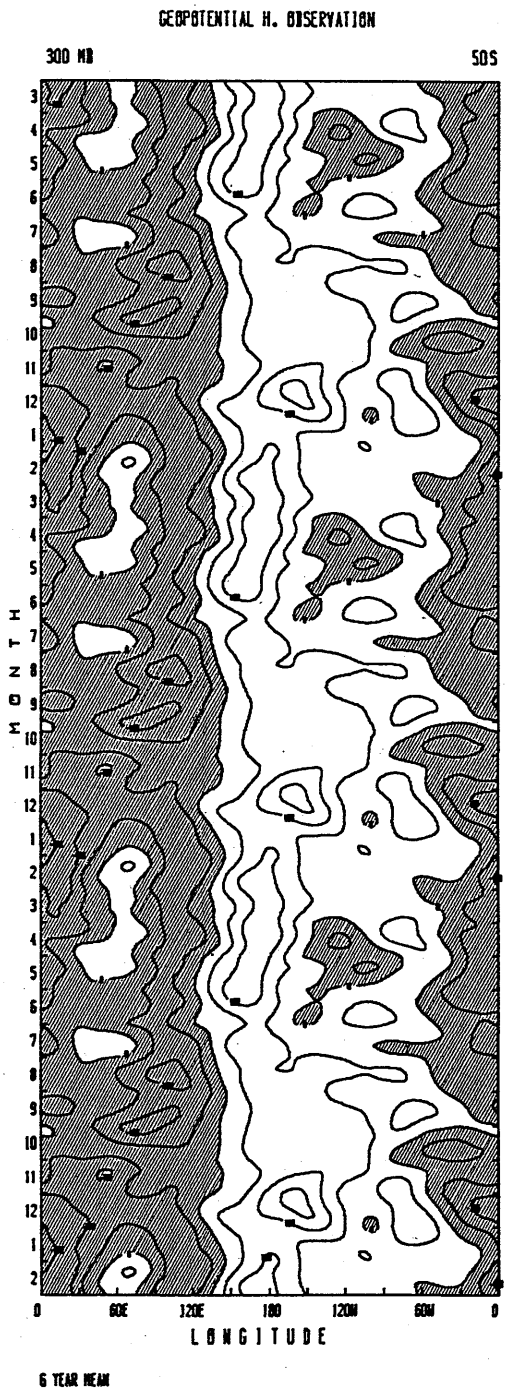

Fig. 5.1.15 Same as in Fig. 5.1.3 except for 50° S.

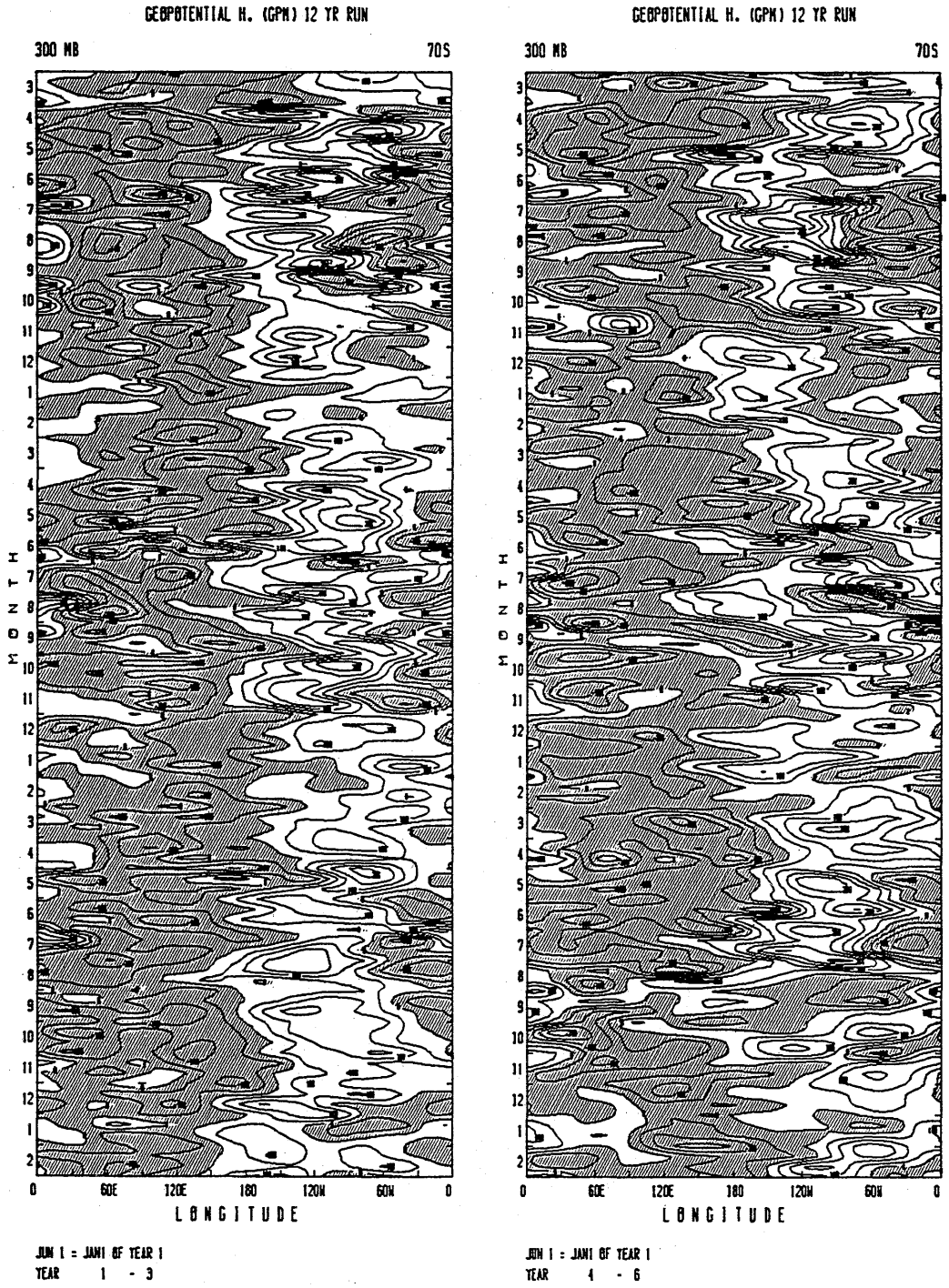

Fig. 5.1.16 Same as in Fig. 5.1.1 except for 70° S.

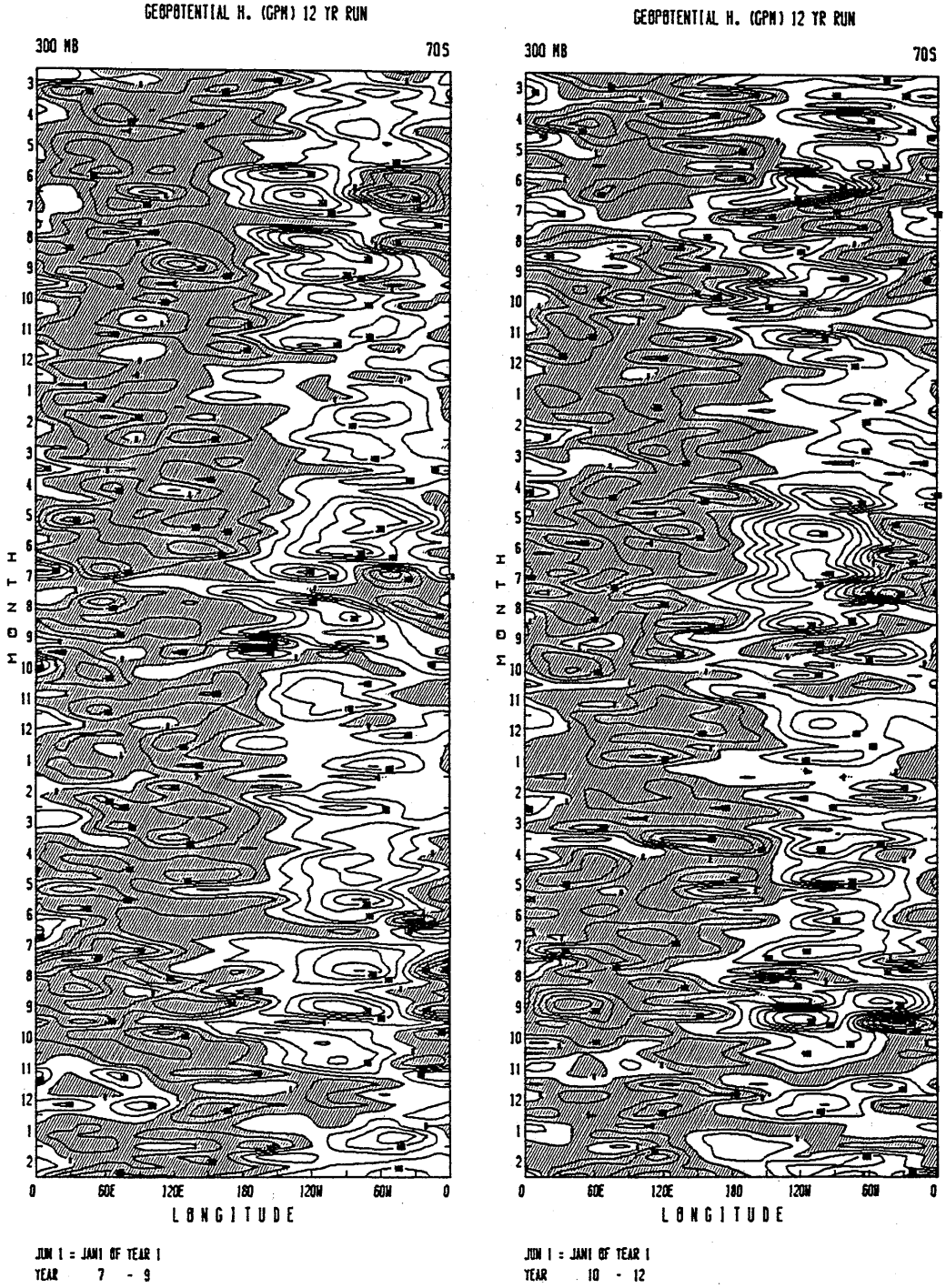

Fig. 5.1.16 (*Continued*)

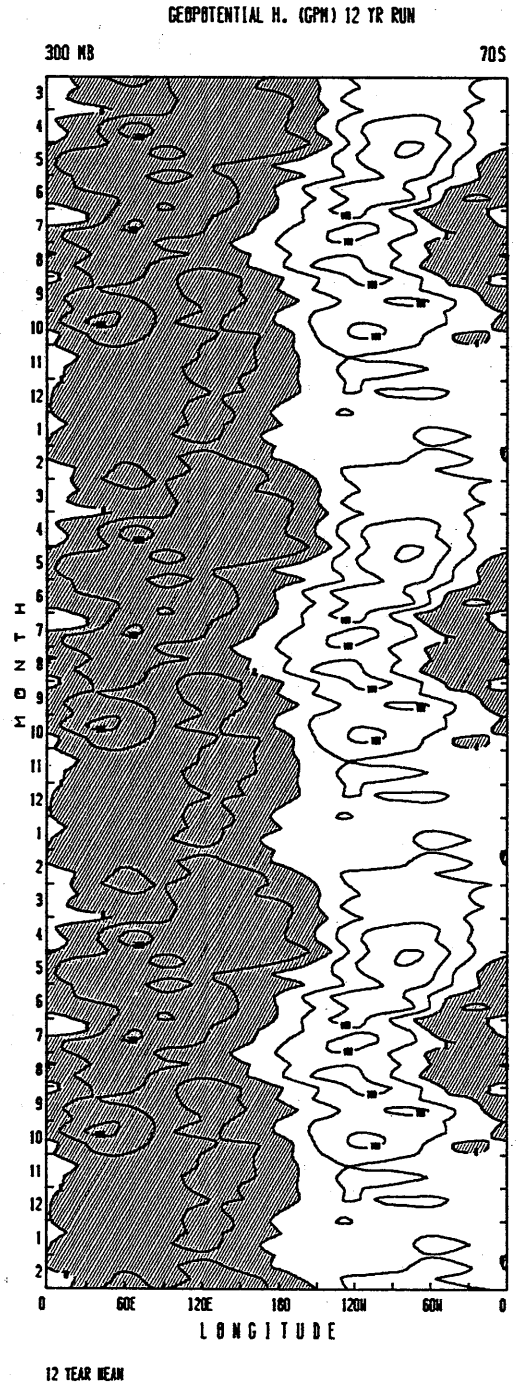

Fig. 5.1.17 Same as in Fig. 5.1.2 except for 70° S.

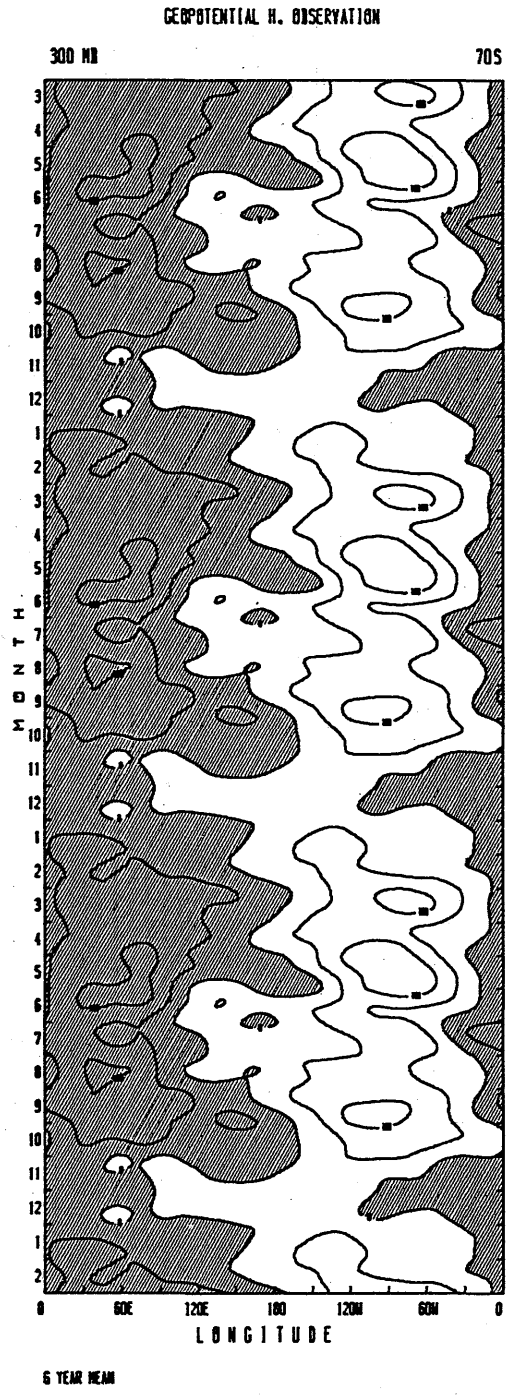

Fig. 5.1.18 Same as in Fig. 5.1.3 except for 70° S.

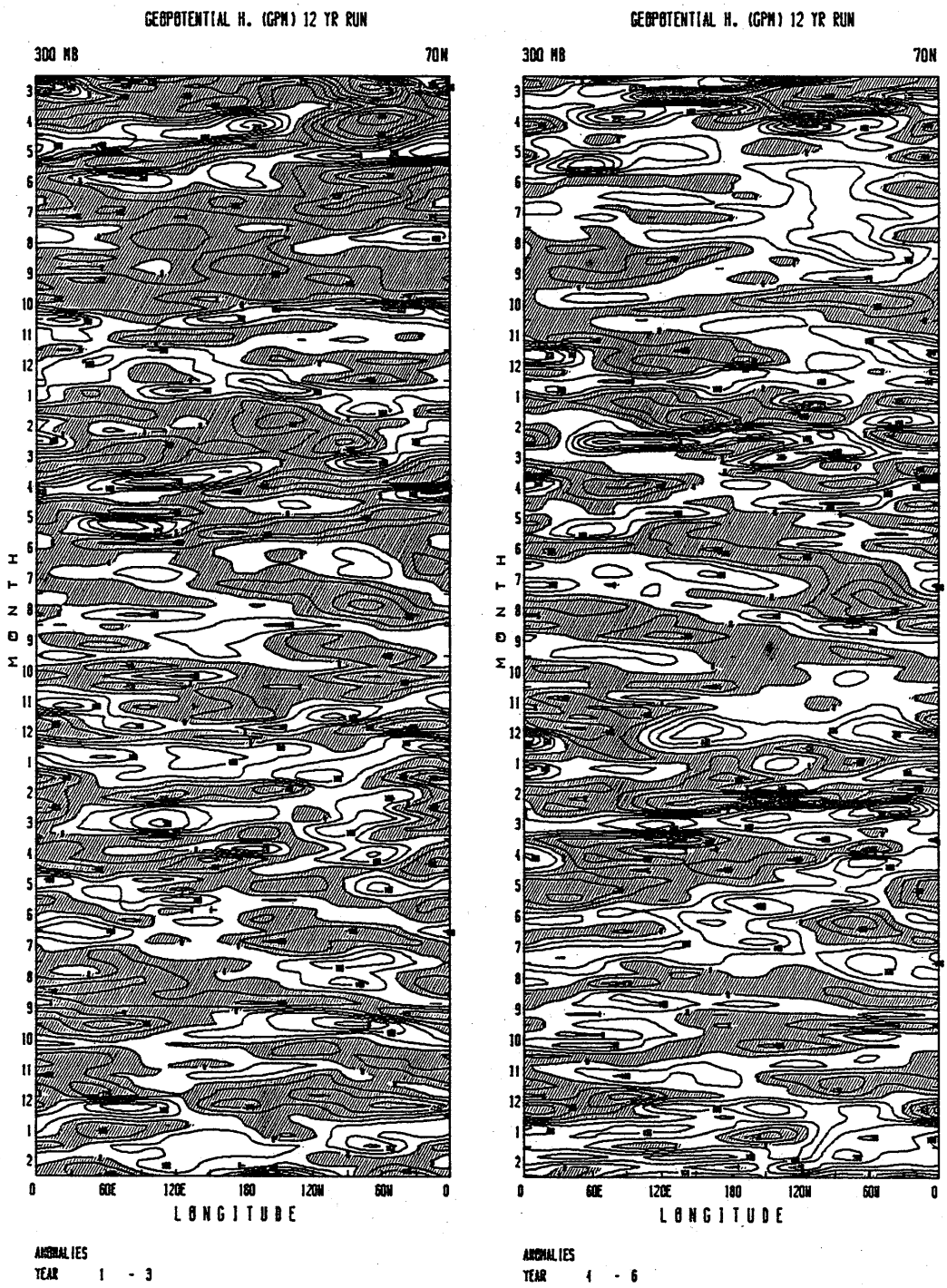

Fig. 5.2.1 Geopotential height anomalies from 12-year means at 300 mb, 70° N. Contour interval is 50 g.p.m. Negative values are shaded.

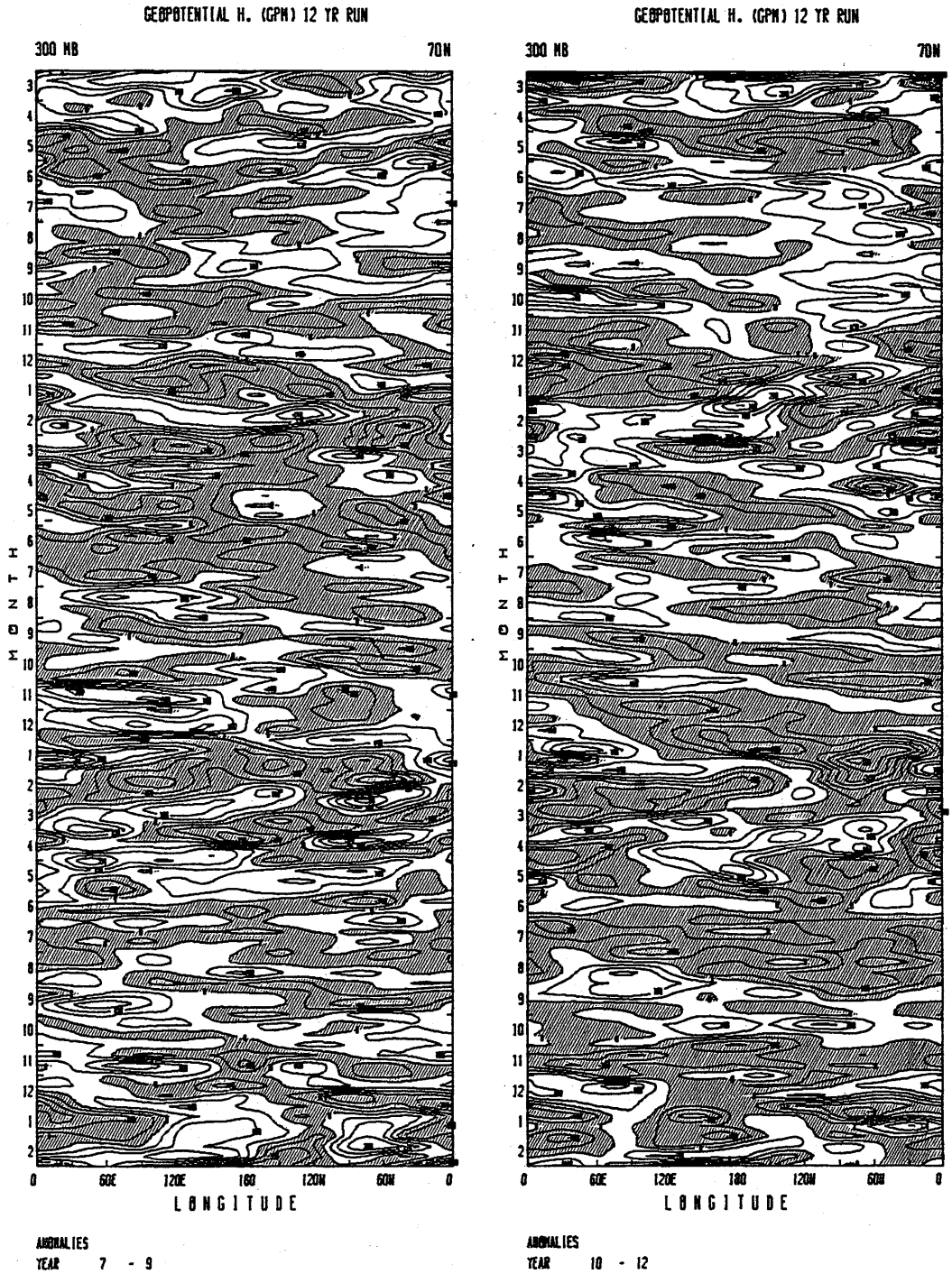

Fig. 5.2.1 (*Continued*)

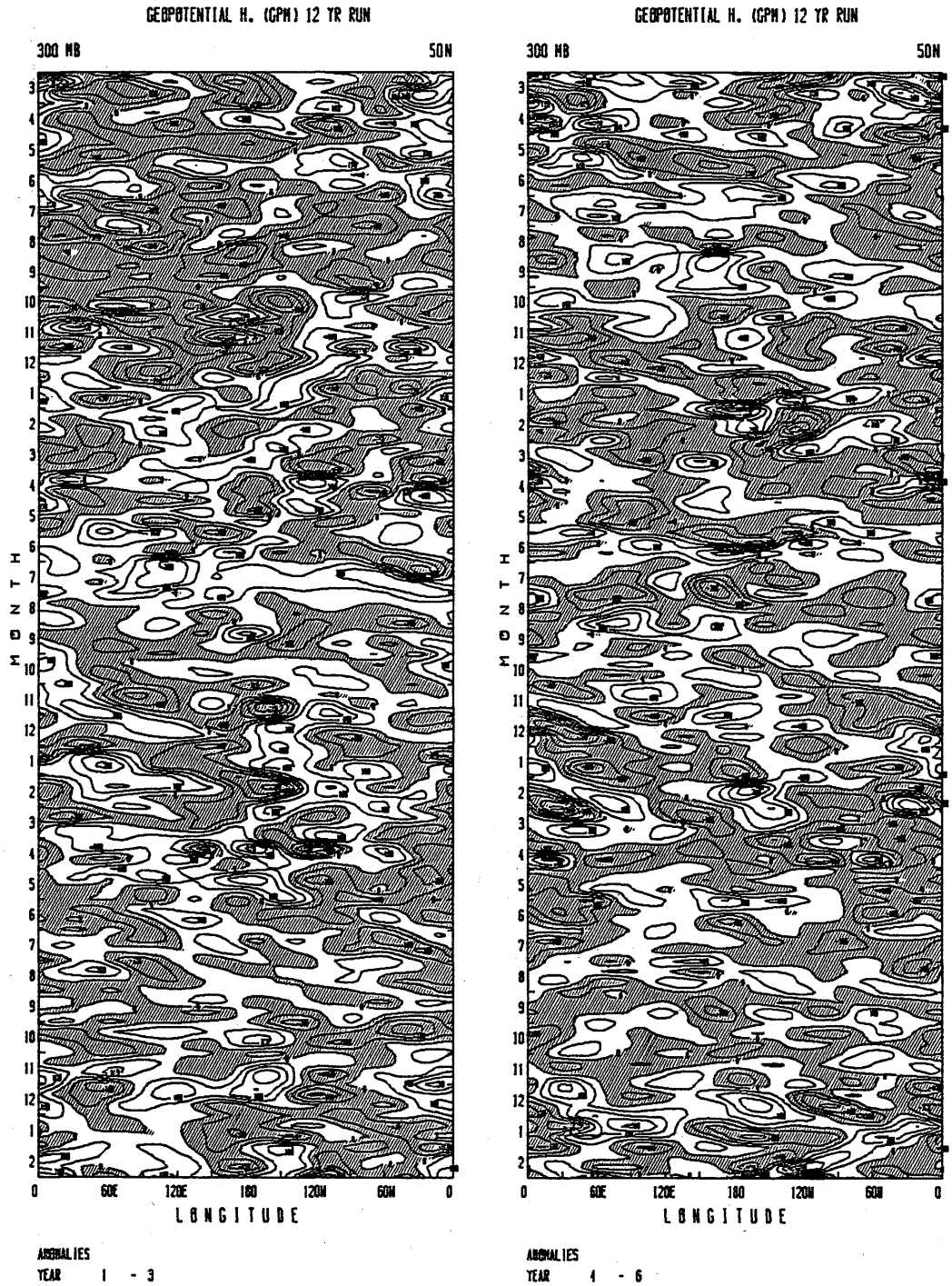

Fig. 5.2.2 Same as in Fig. 5.2.1 except for 50° N.

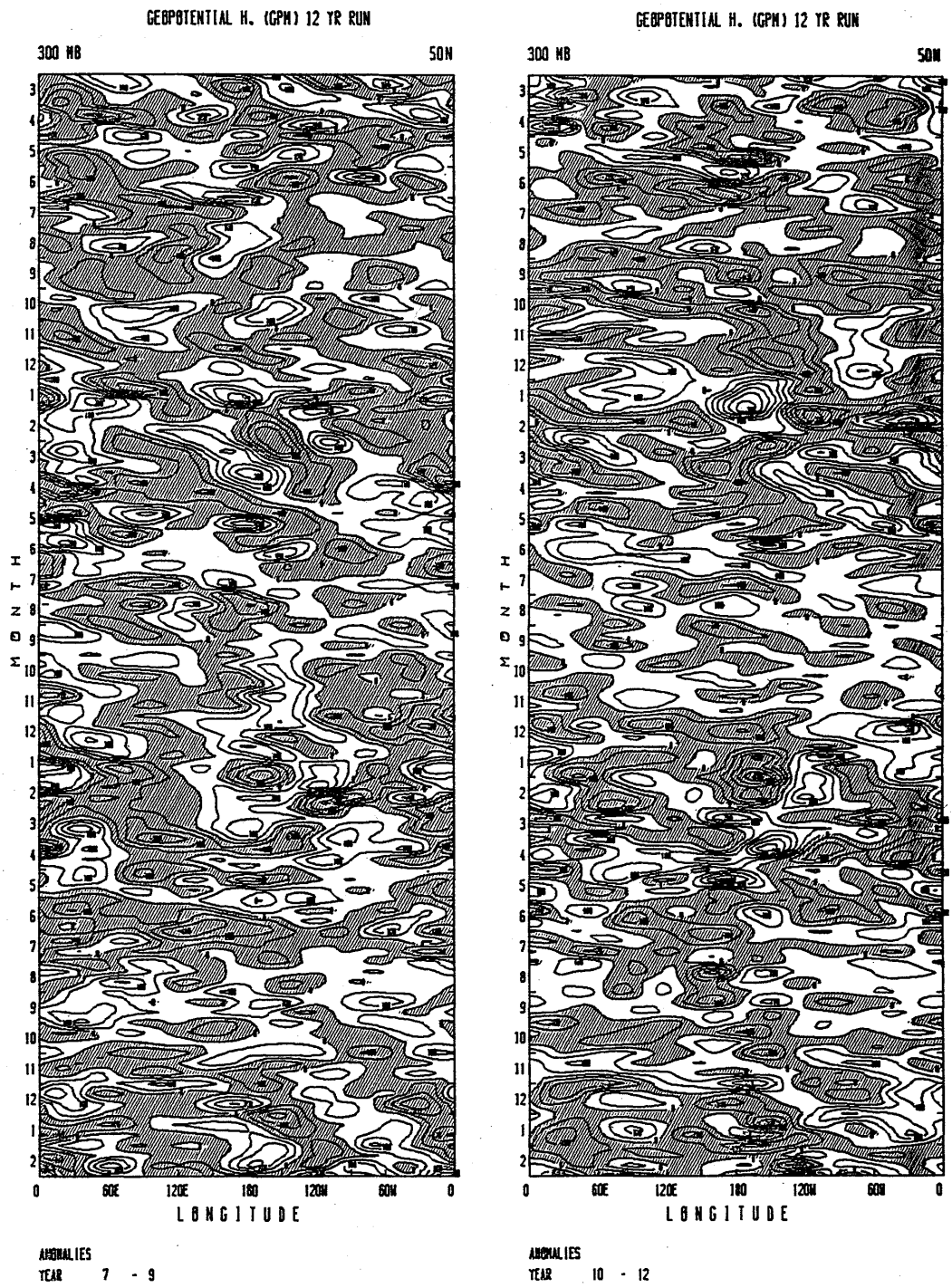

Fig. 5.2.2 (*Continued*)

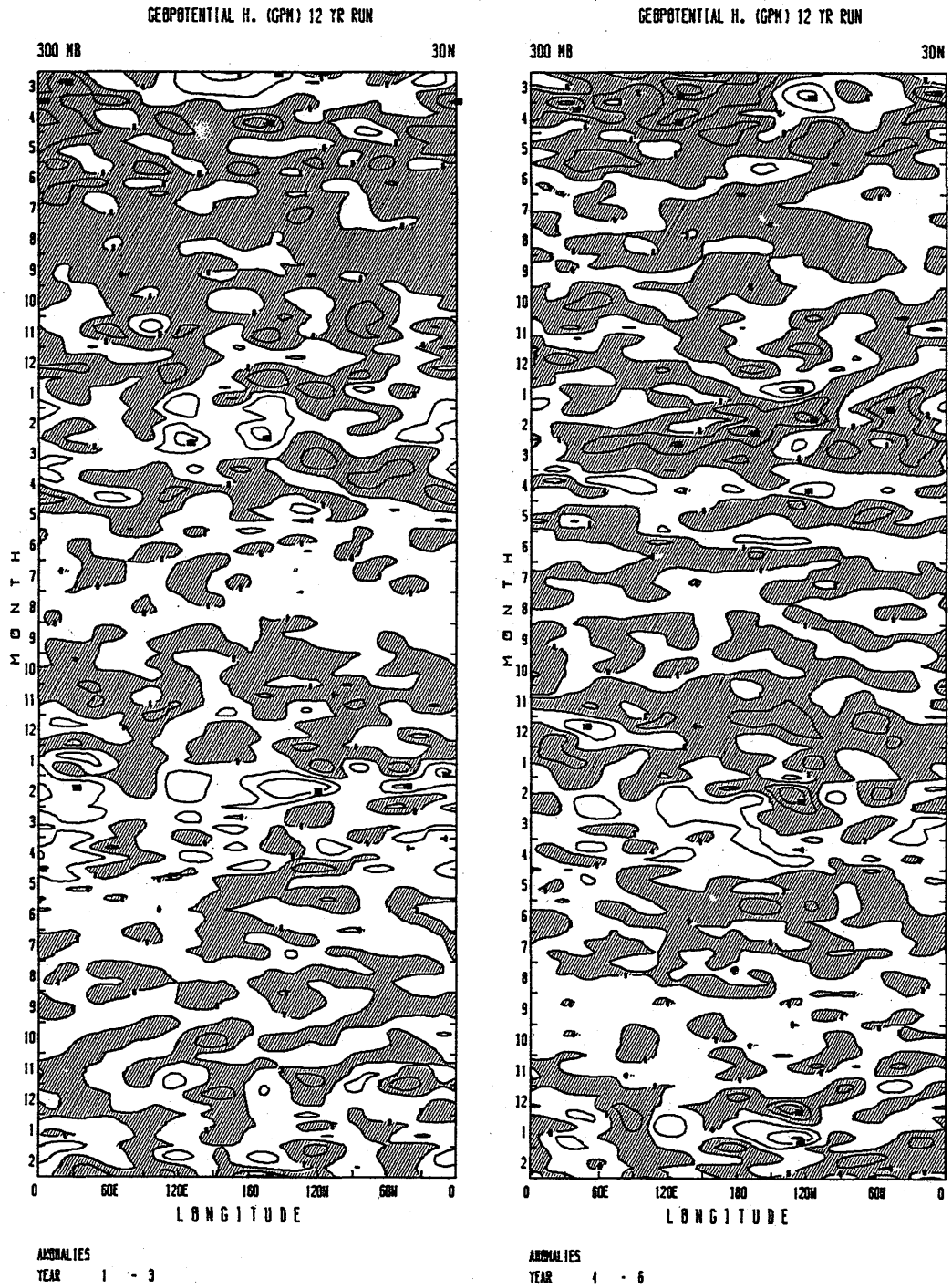

Fig. 5.2.3 Same as in Fig. 5.2.1 except for 30° N.

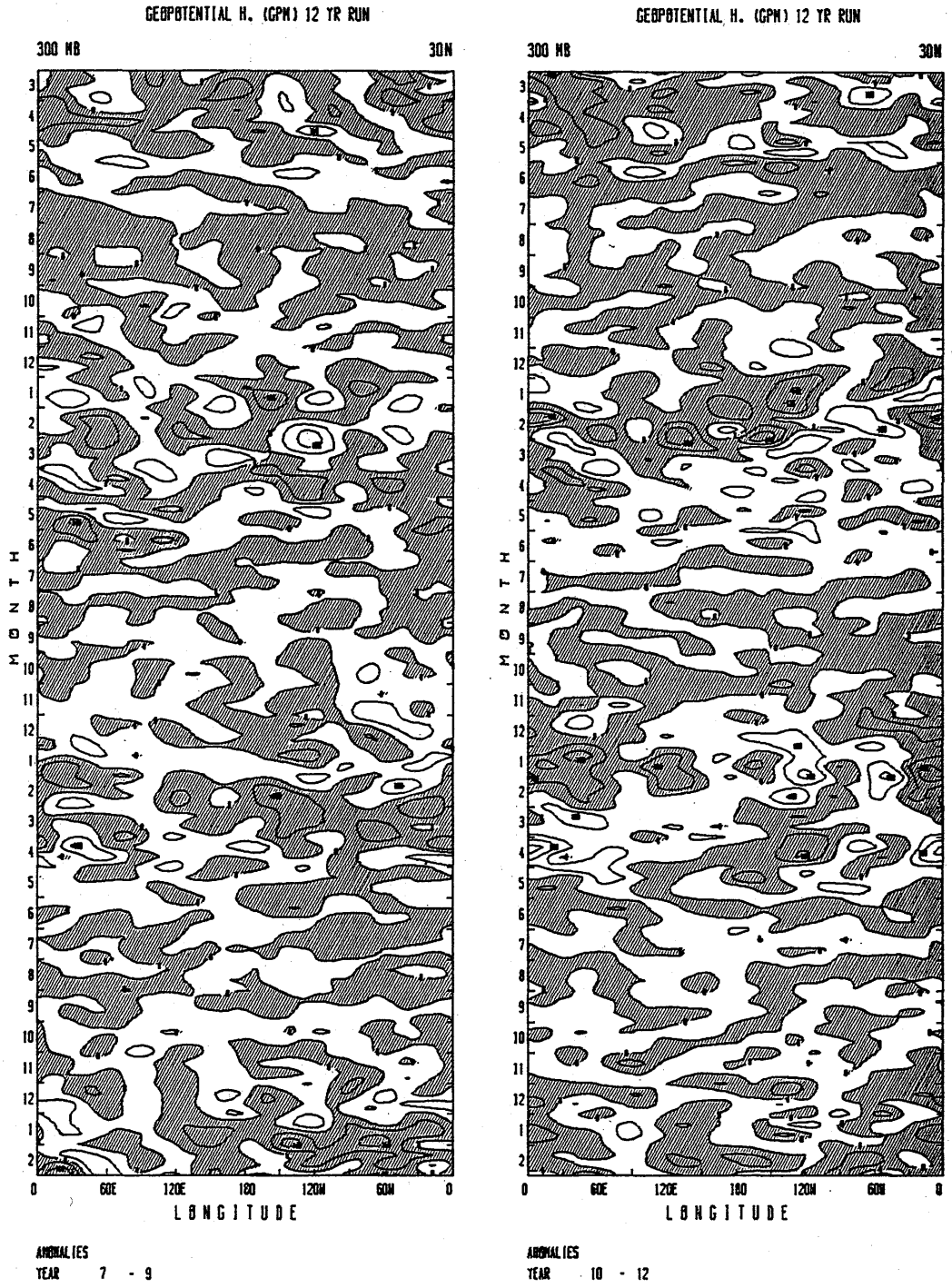

Fig. 5.2.3 (*Continued*)

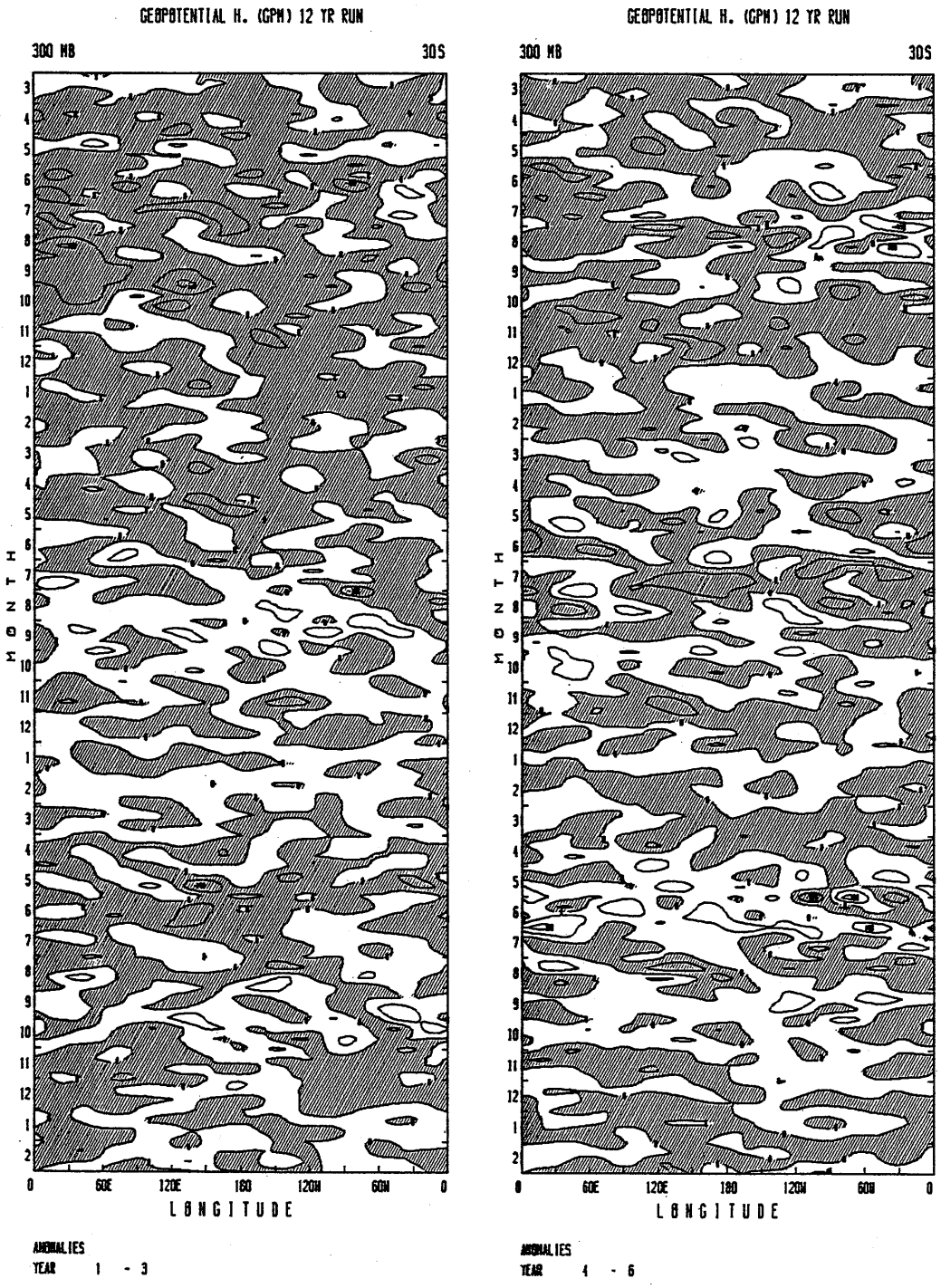

Fig. 5.2.4 Same as in Fig. 5.2.1 except for 30° S.

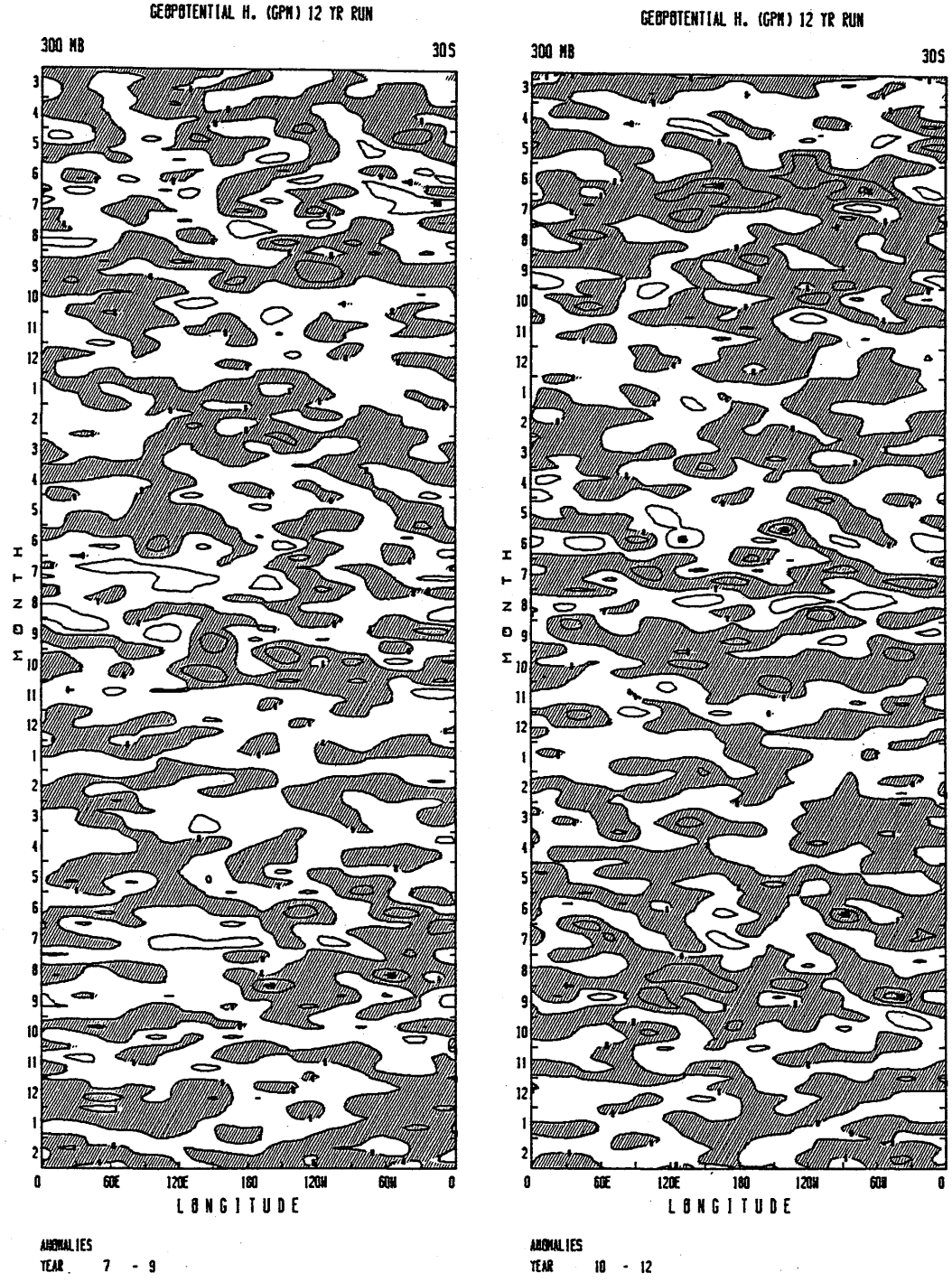

Fig. 5.2.4 (*Continued*)

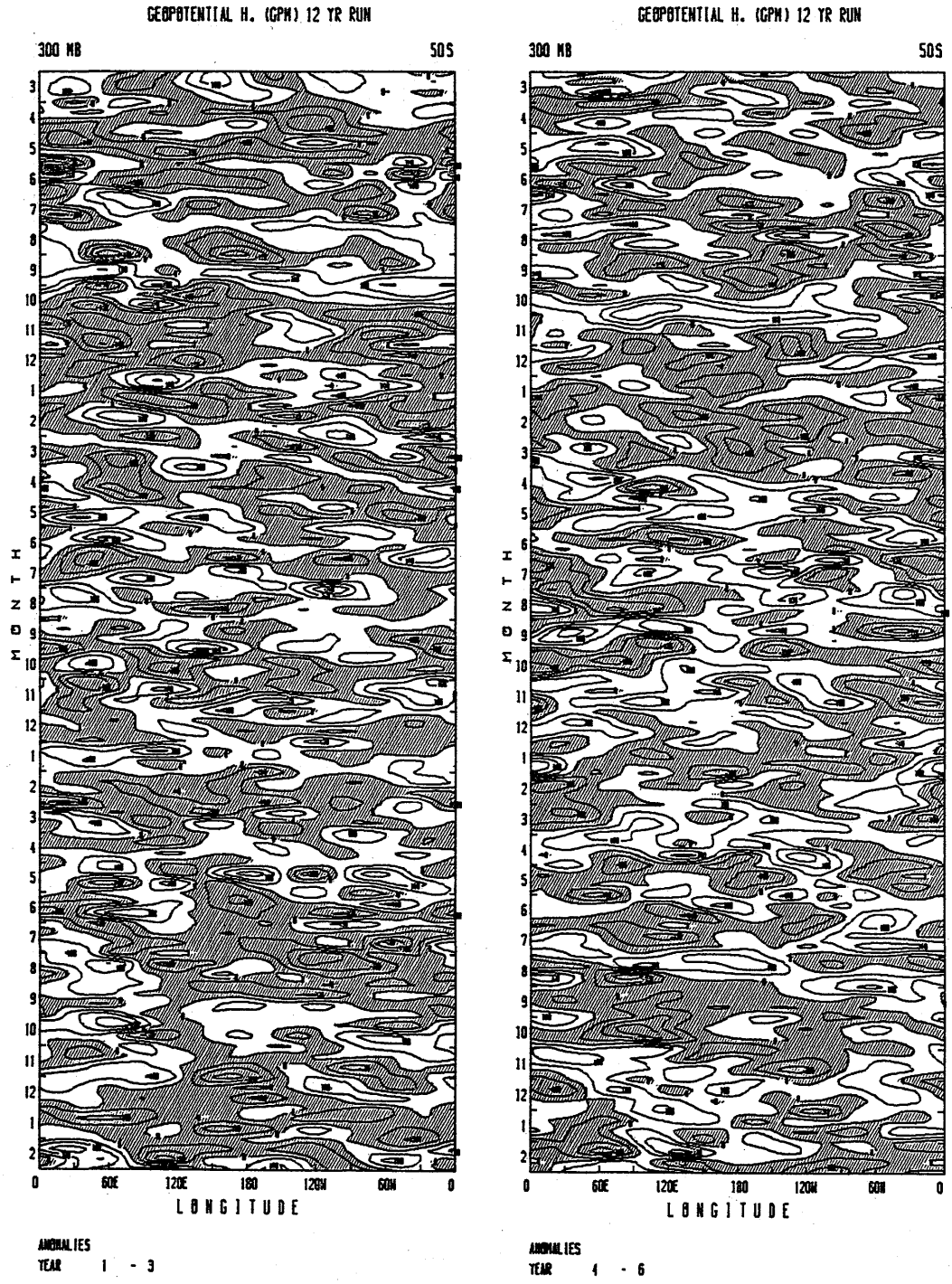

Fig. 5.2.5 Same as in Fig. 5.2.1 except for 50° S.

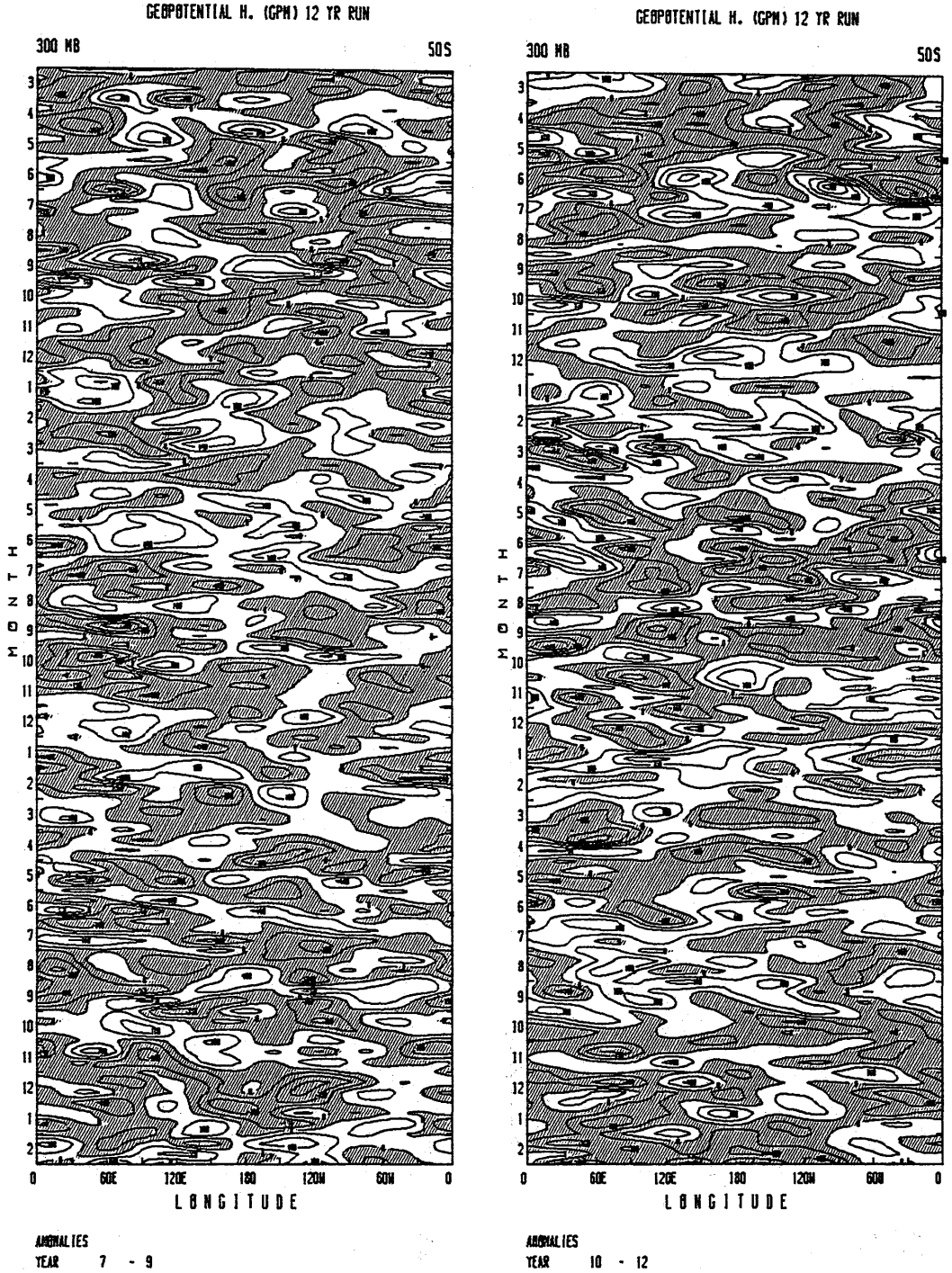

Fig. 5.2.5 (*Continued*)

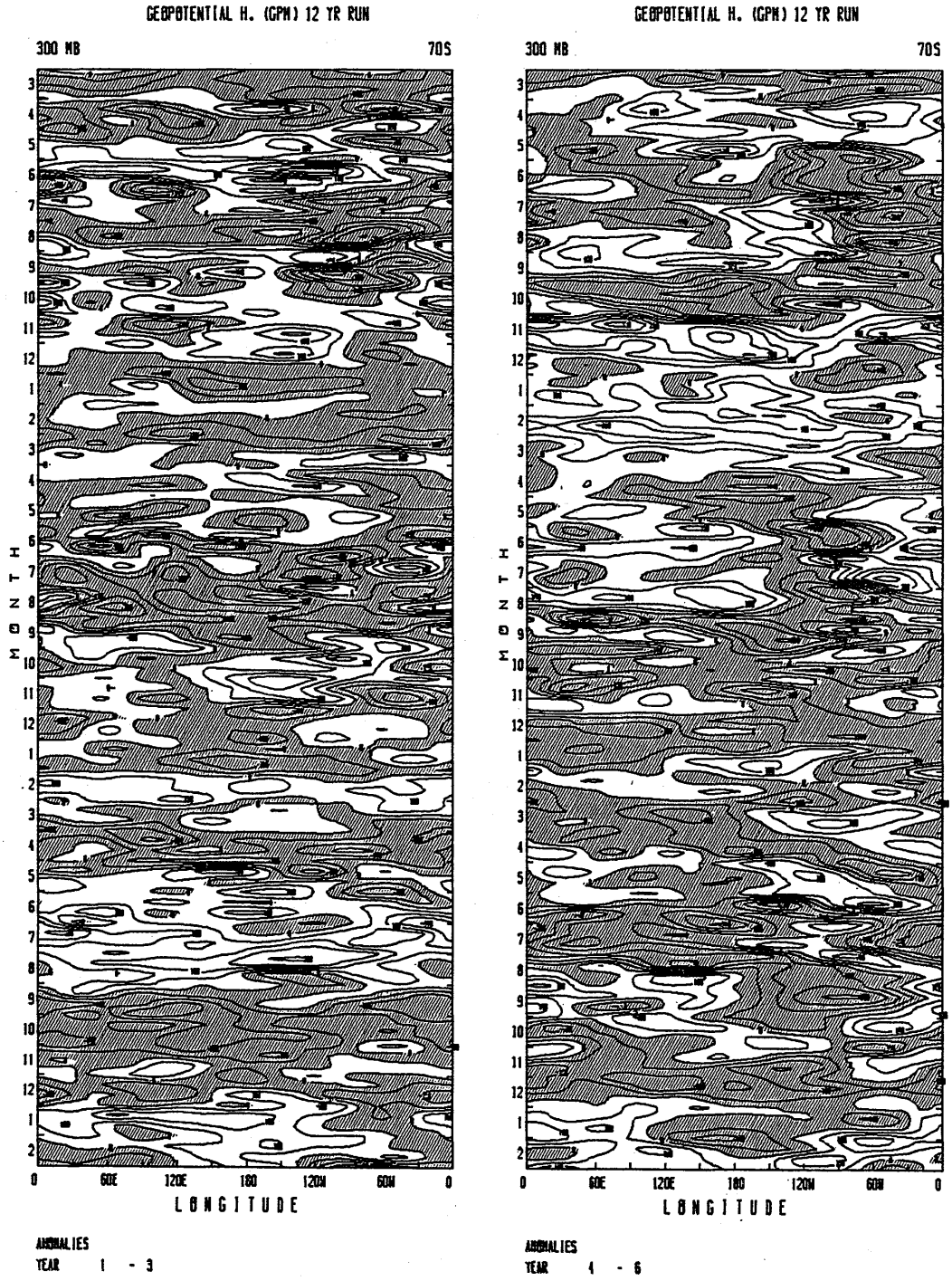

Fig. 5.2.6 Same as in Fig. 5.2.1 except for 70° S.

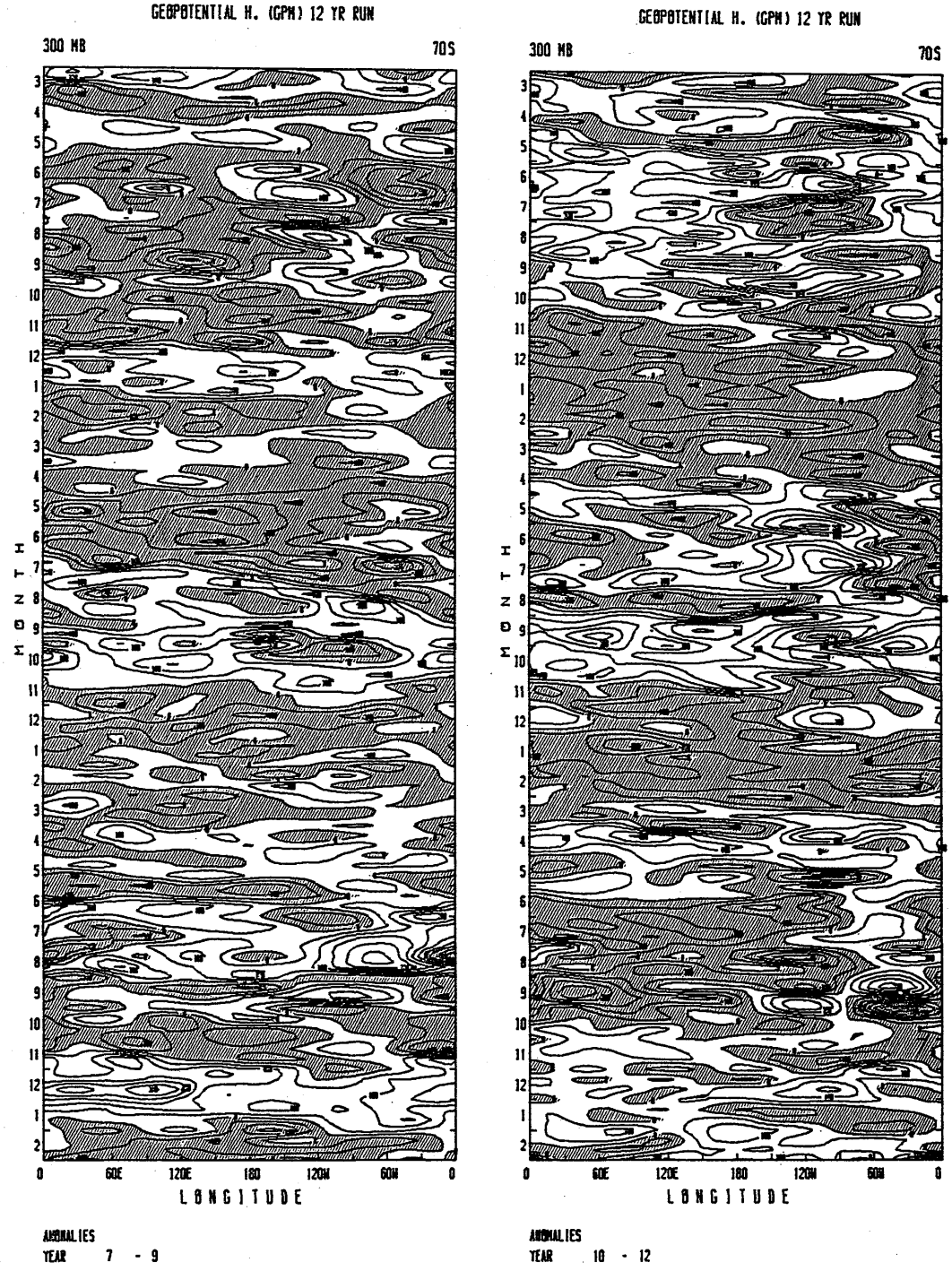

Fig. 5.2.6 (*Continued*)

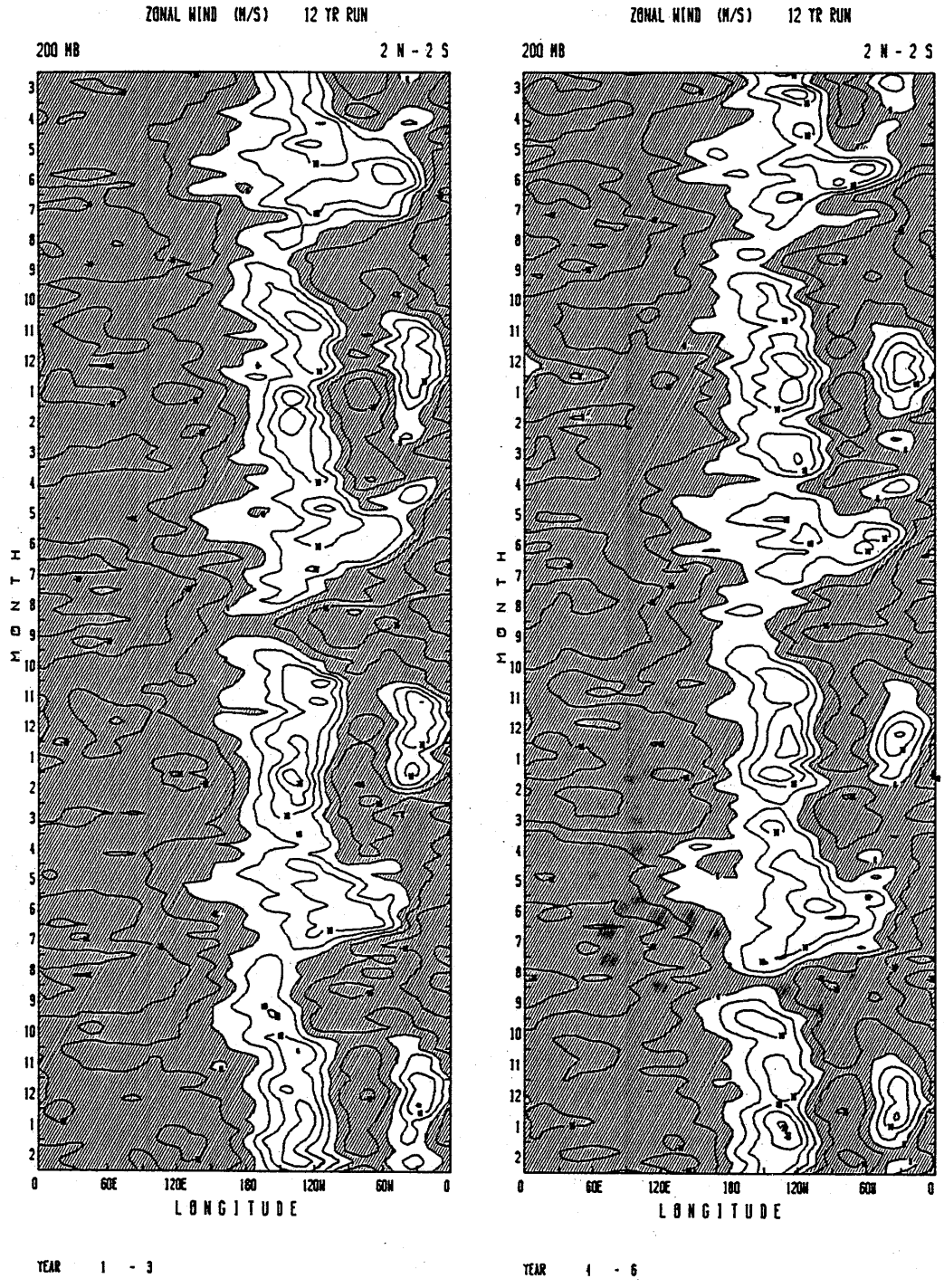

Fig. 5.3.1 Zonal winds at 200 mb at the equator. Contour interval is 5 m s^{-1}. Negative values (easterlies) are shaded.

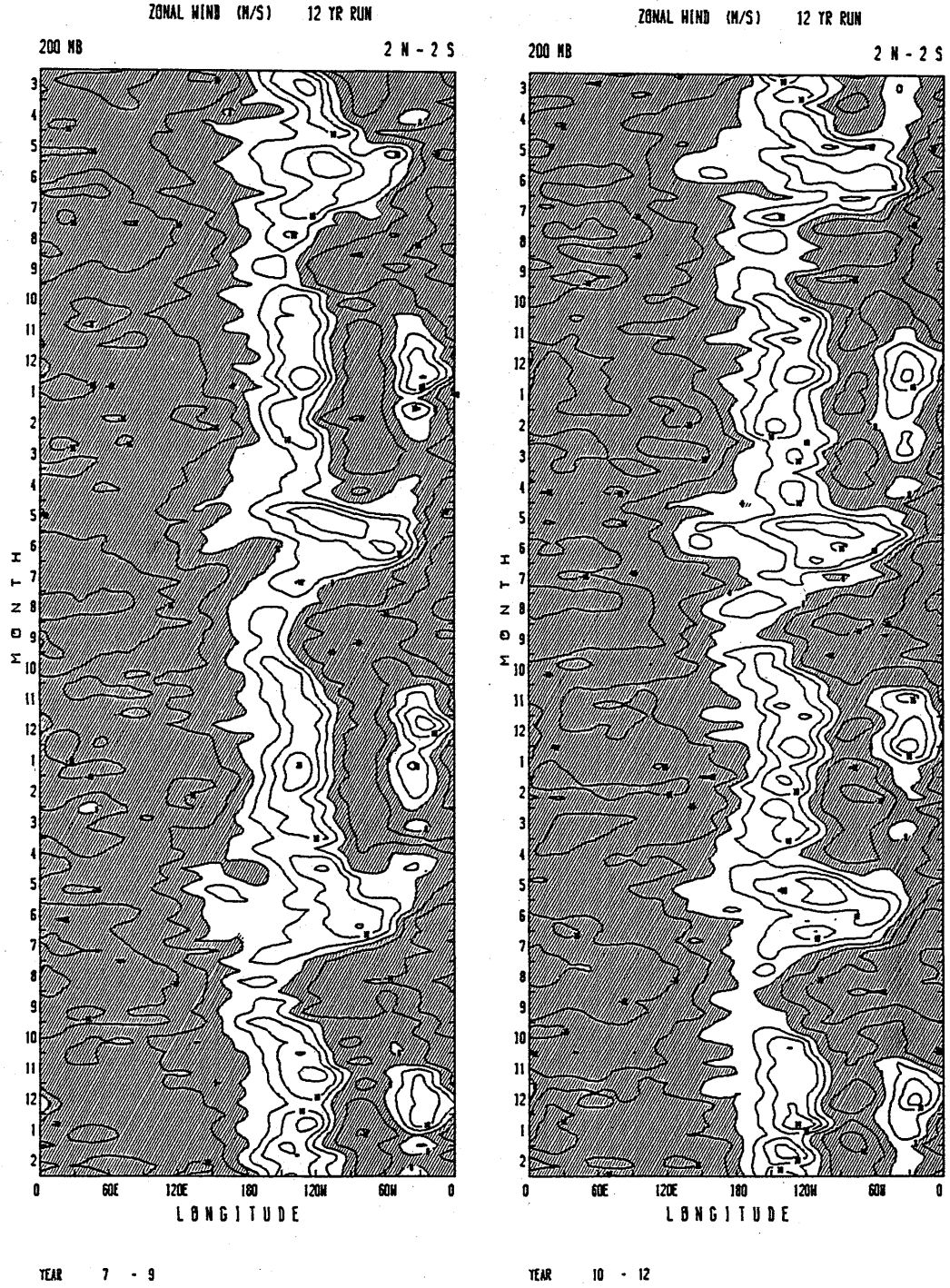

Fig. 5.3.1 (*Continued*)

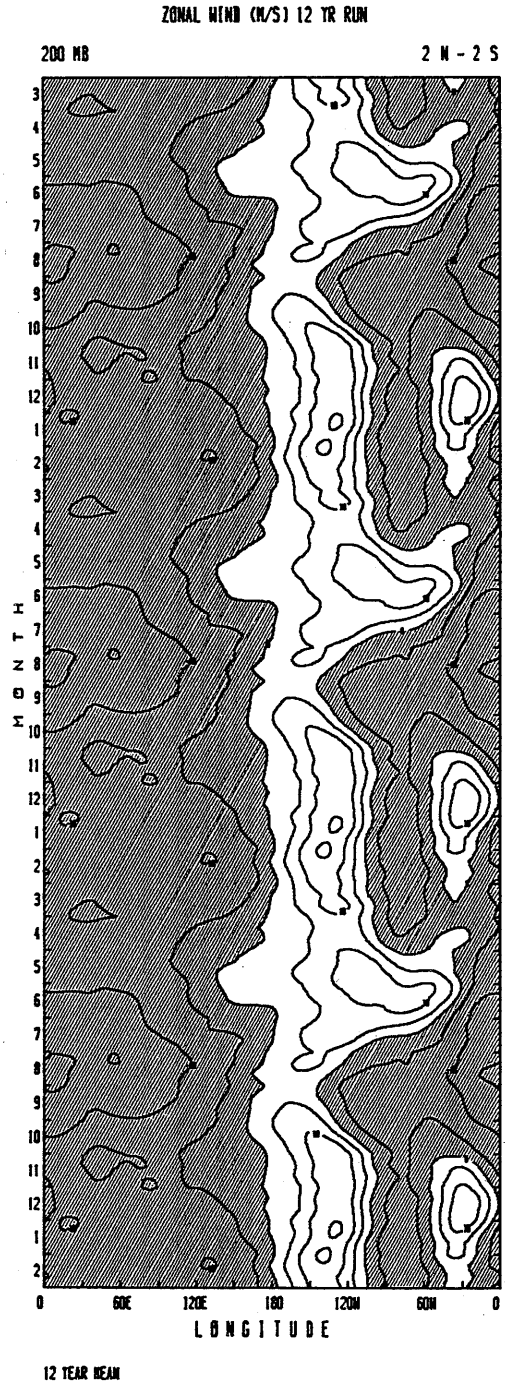

Fig. 5.3.2 Same as in Fig. 5.3.1 except for the 12-year mean field.

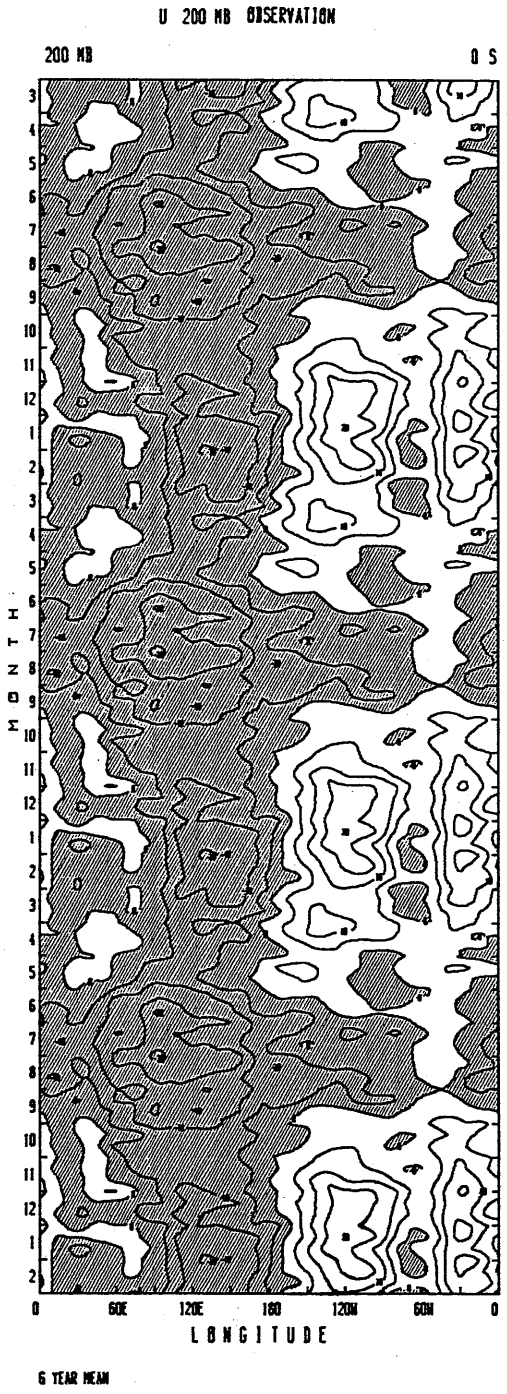

Fig. 5.3.3 Same as in Fig. 5.3.2 except for observation. The observation is based on the 6-year NMC analysis during the period 1978-1983.

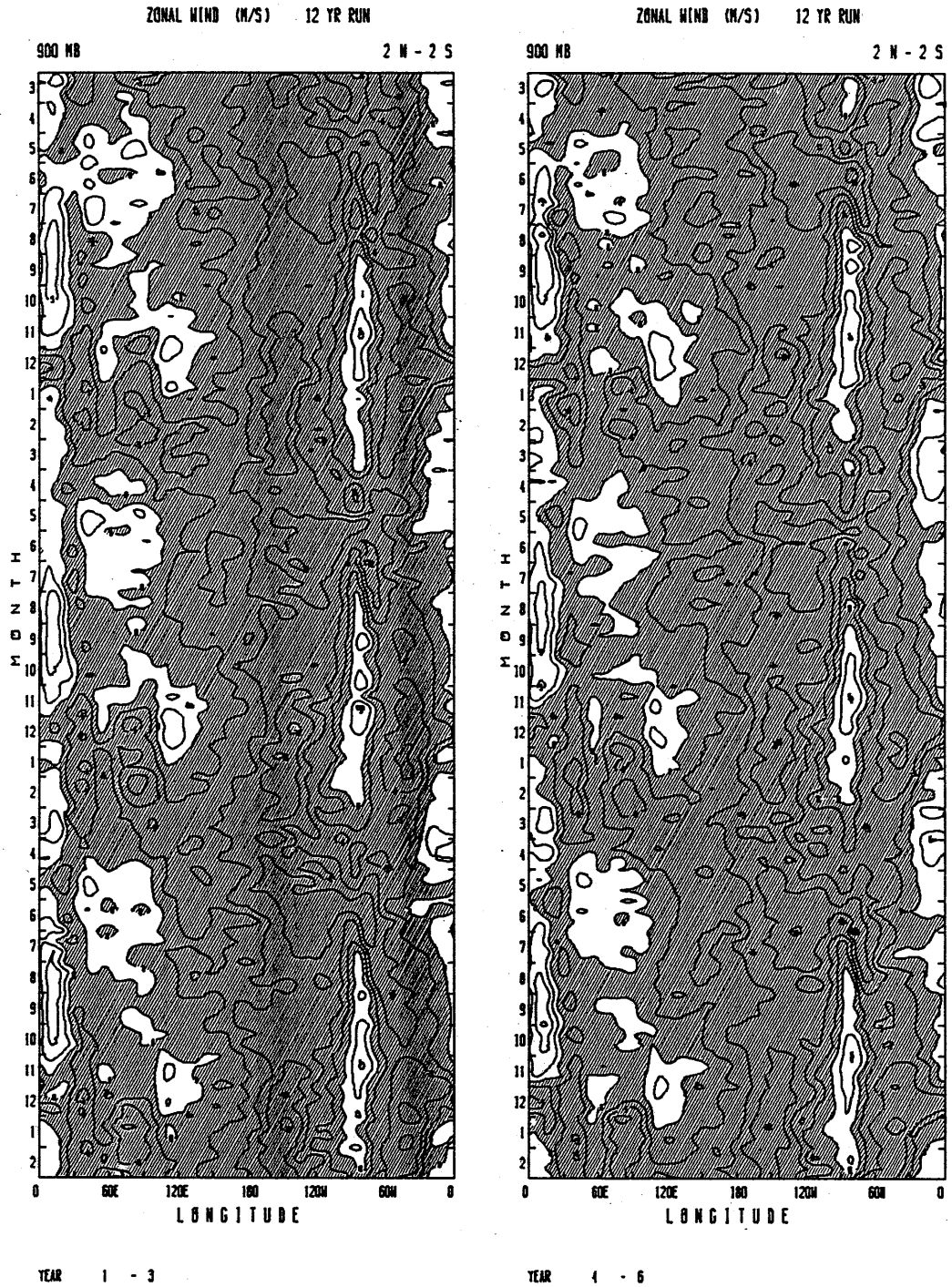

Fig. 5.3.4 Zonal winds at 900 mb at the equator. Contour interval is 2.5 m s^{-1}. Negative value (easterlies) are shaded.

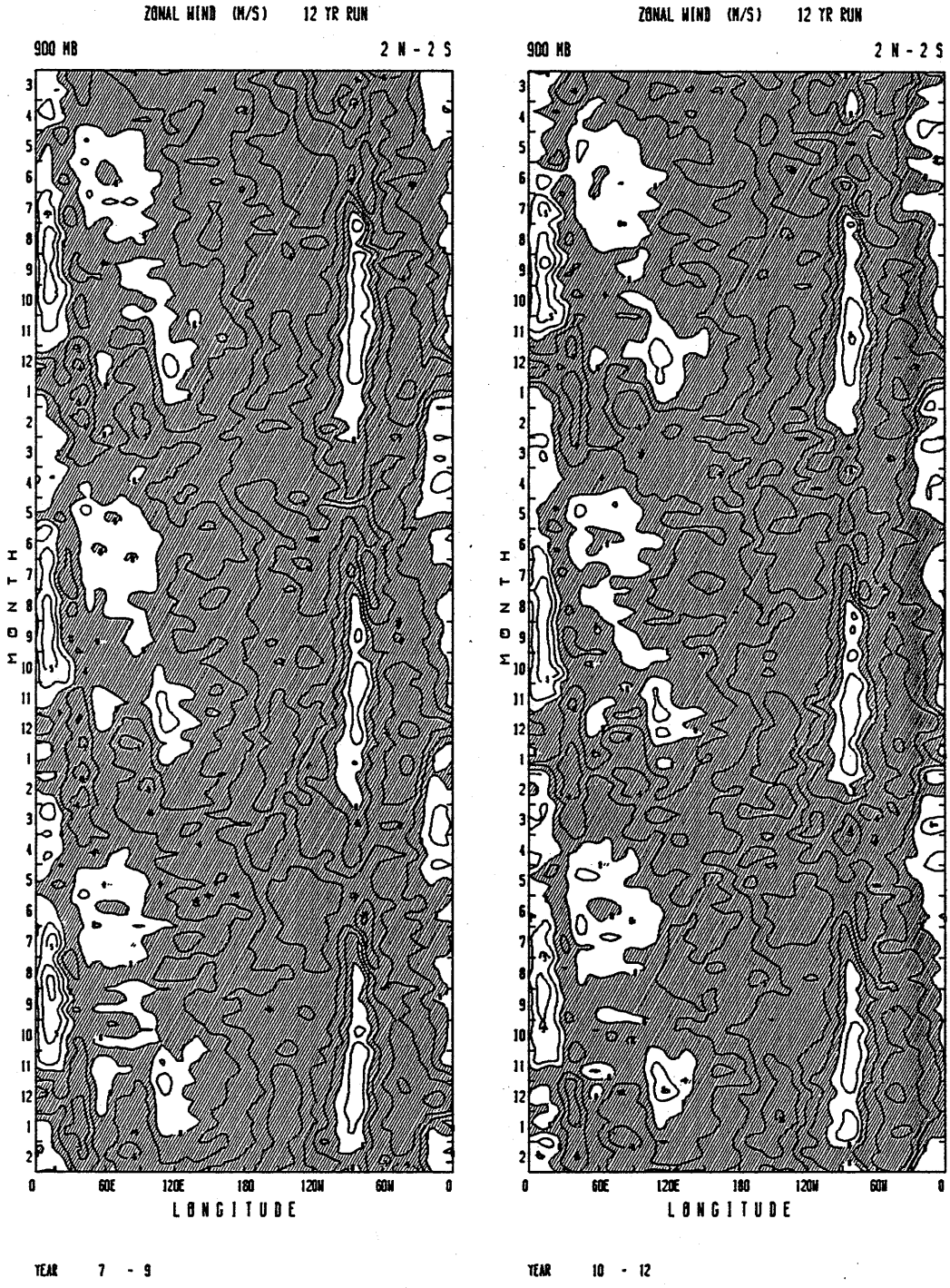

Fig. 5.3.4 (*Continued*)

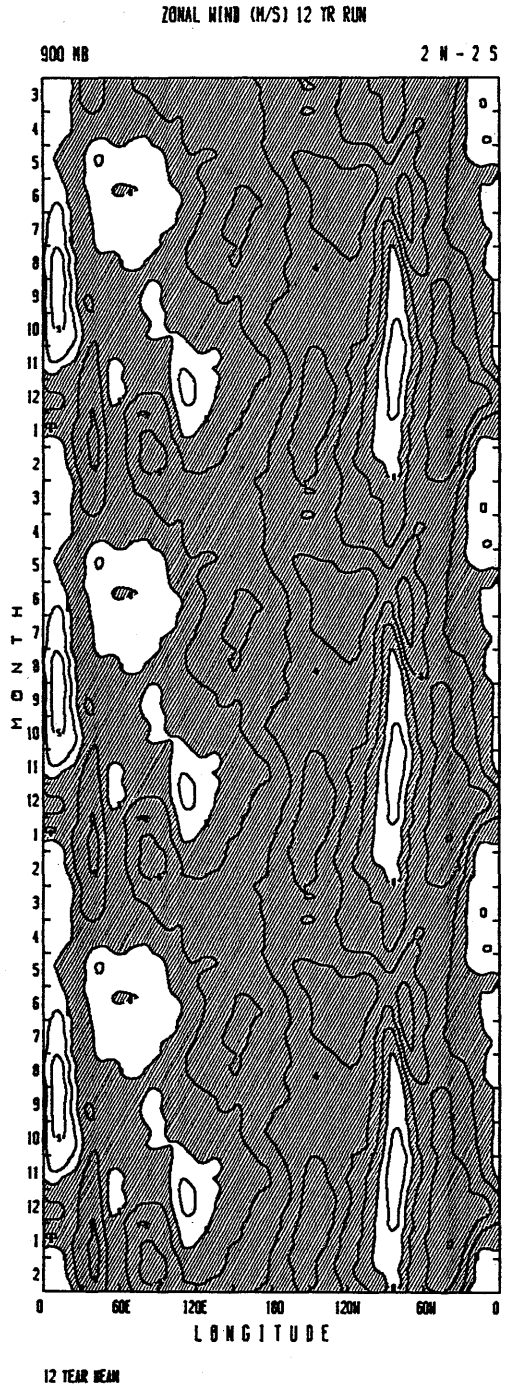

Fig. 5.3.5 Same as in Fig. 5.3.4 except for the 12-year mean field.

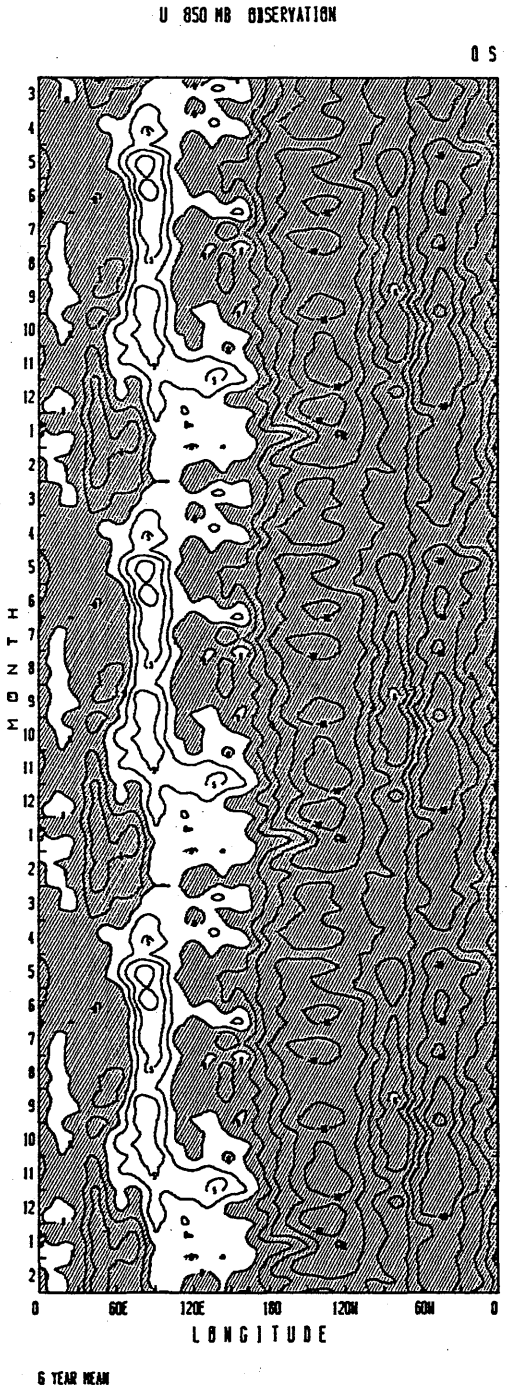

Fig. 5.3.6 Observed 6-year mean zonal winds at 850 mb at the equator. Contour interval is 2.5 m s^{-1}. Negative values (easterlies) are shaded. Observation is based on the NMC analysis during 1978-1983.

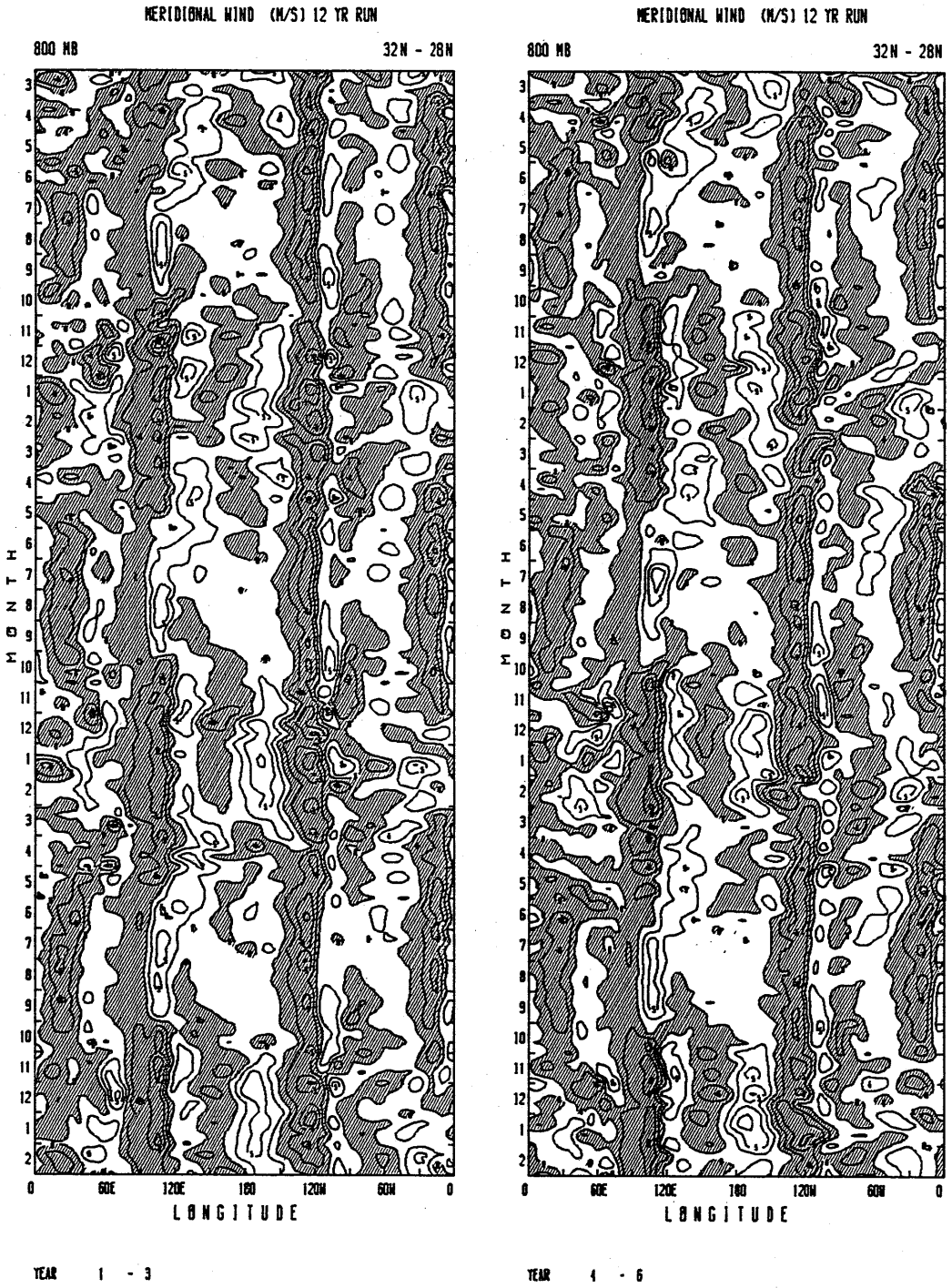

Fig. 5.4.1 Meridional winds at 800 mb, 30° N. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded.

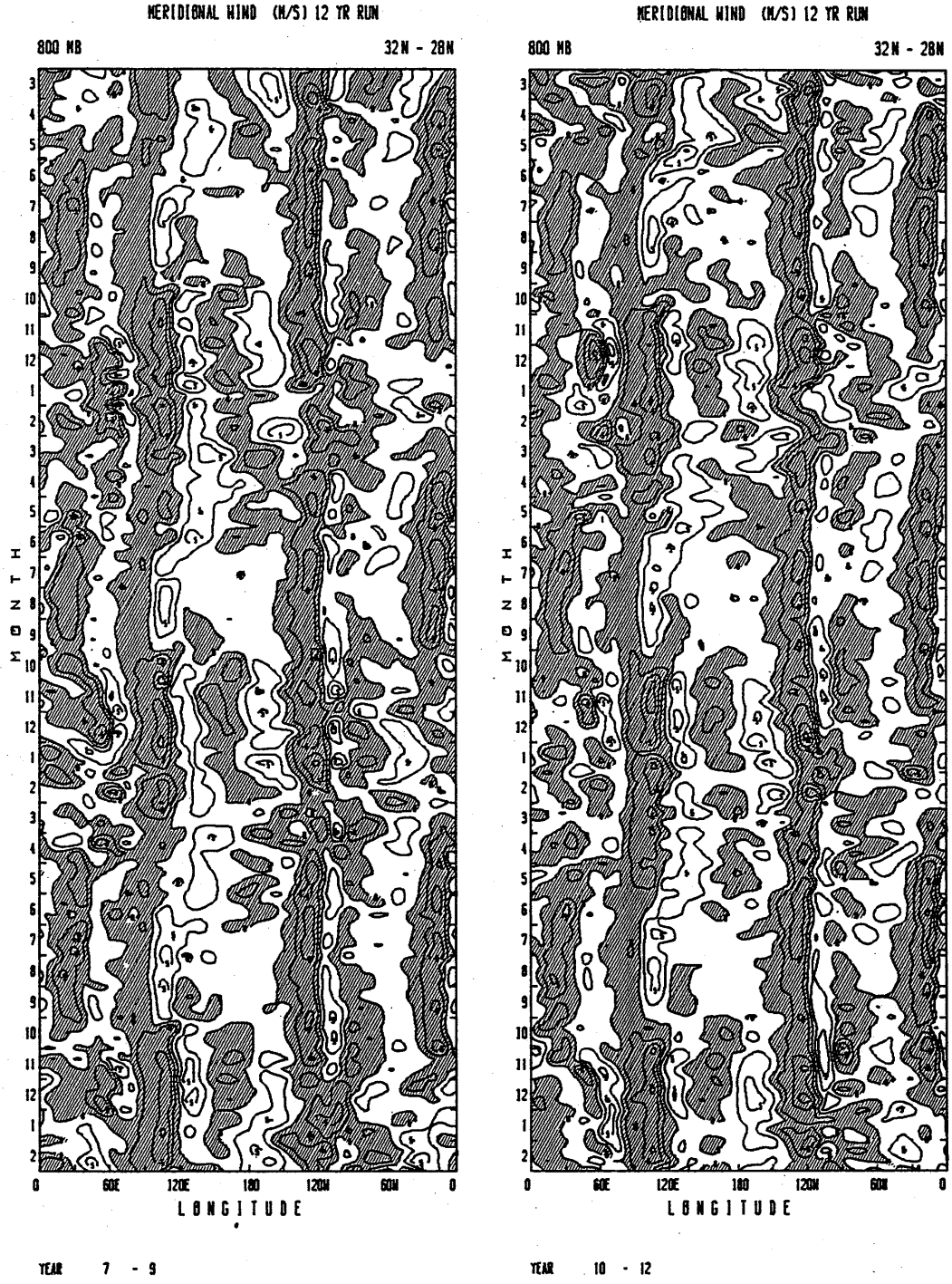

Fig. 5.4.1 (*Continued*)

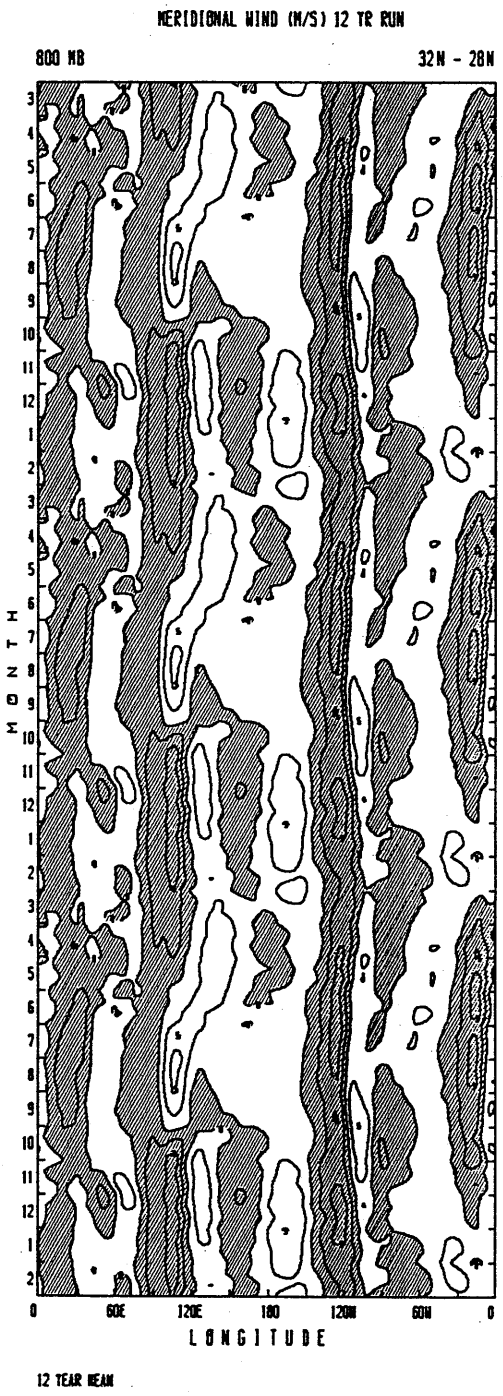

Fig. 5.4.2 Same as in Fig. 5.4.1 except for the 12-year mean field.

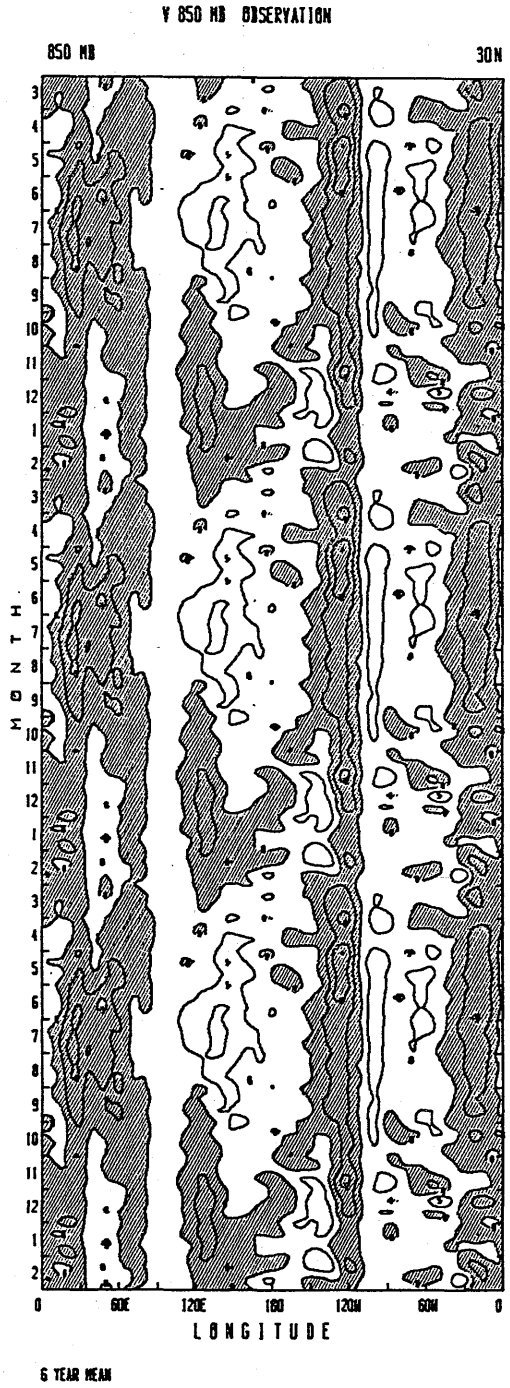

Fig. 5.4.3 Observed 6 year mean meridional winds at 850 mb, 30° N. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded. Observation is based on the NMC analysis during 1978-1983.

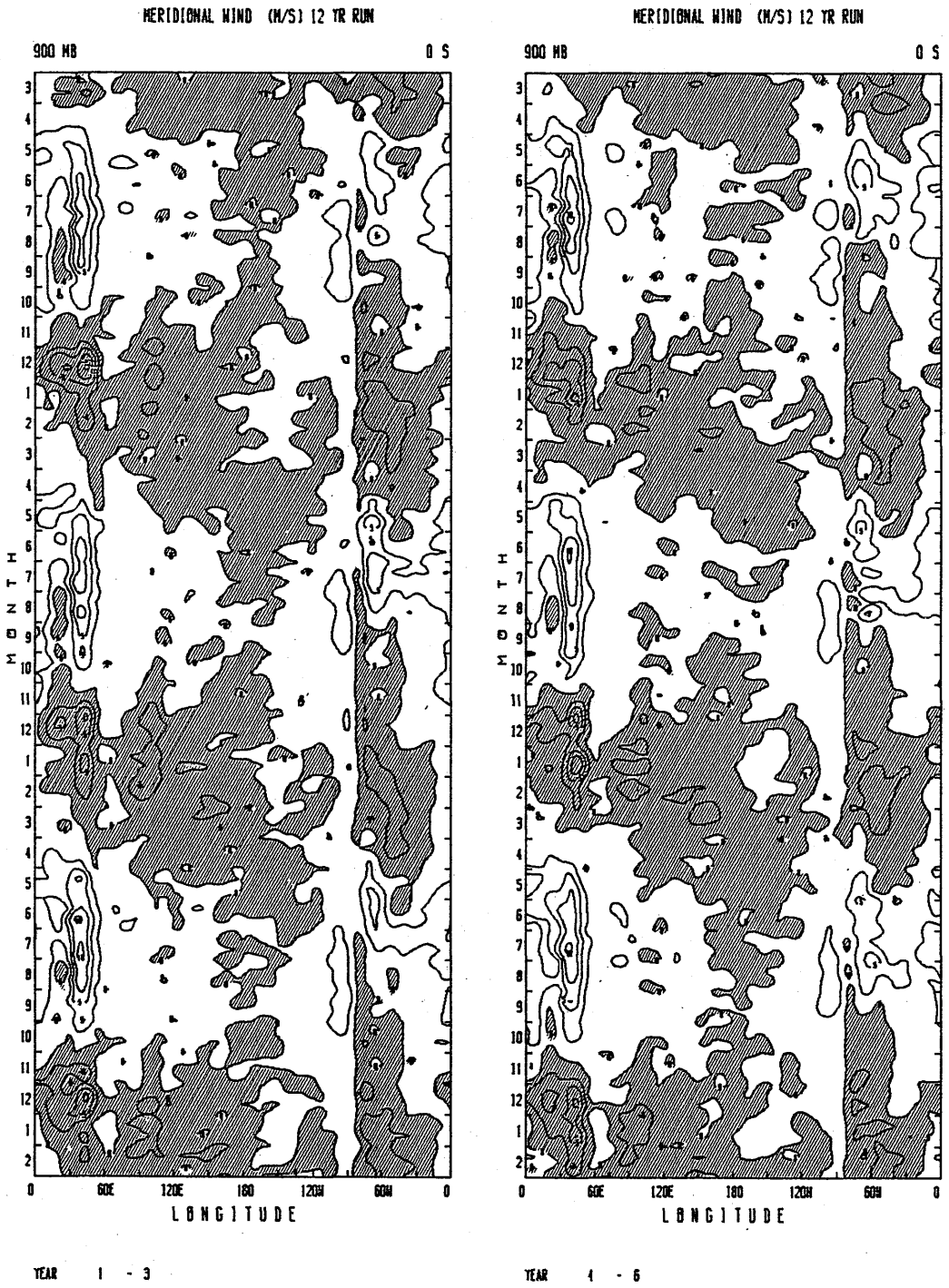

Fig. 5.4.4 Meridional winds at 900 mb at the equator. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded.

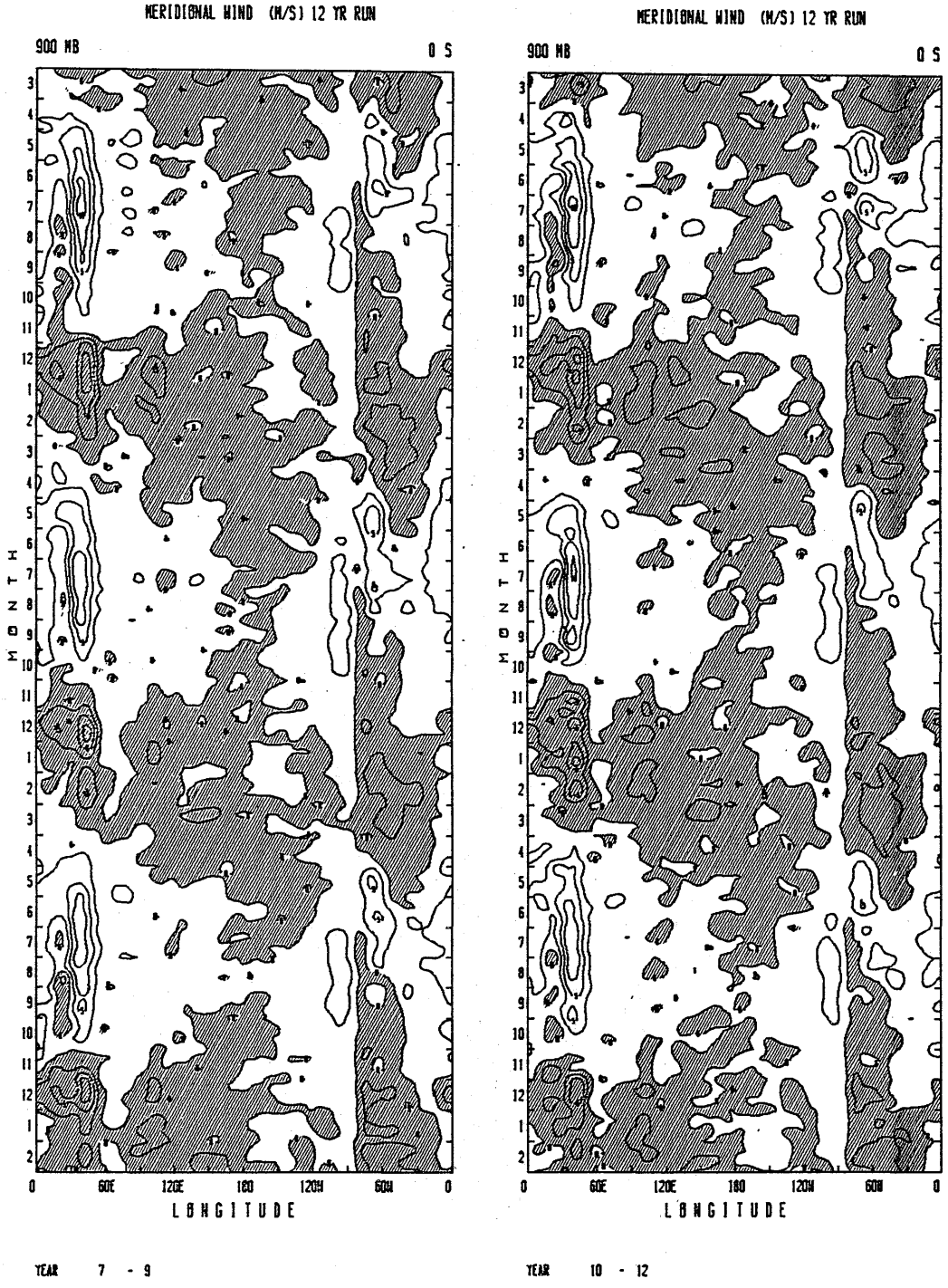

Fig. 5.4.4 (*Continued*)

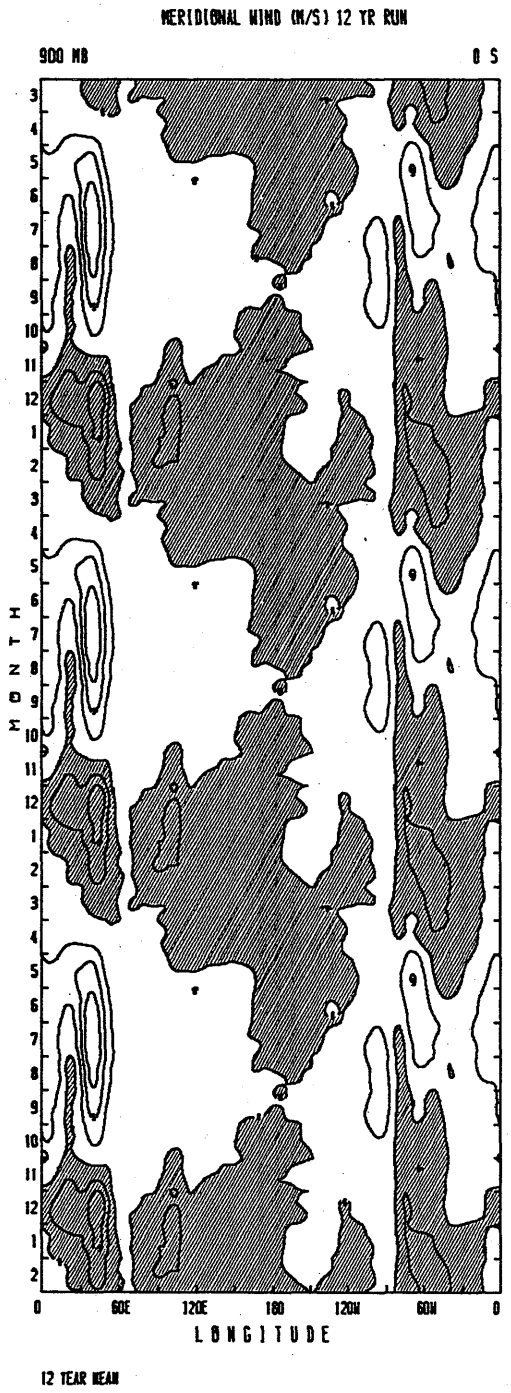

Fig. 5.4.5 Same as in Fig. 5.4.1 except for the 12-year mean field.

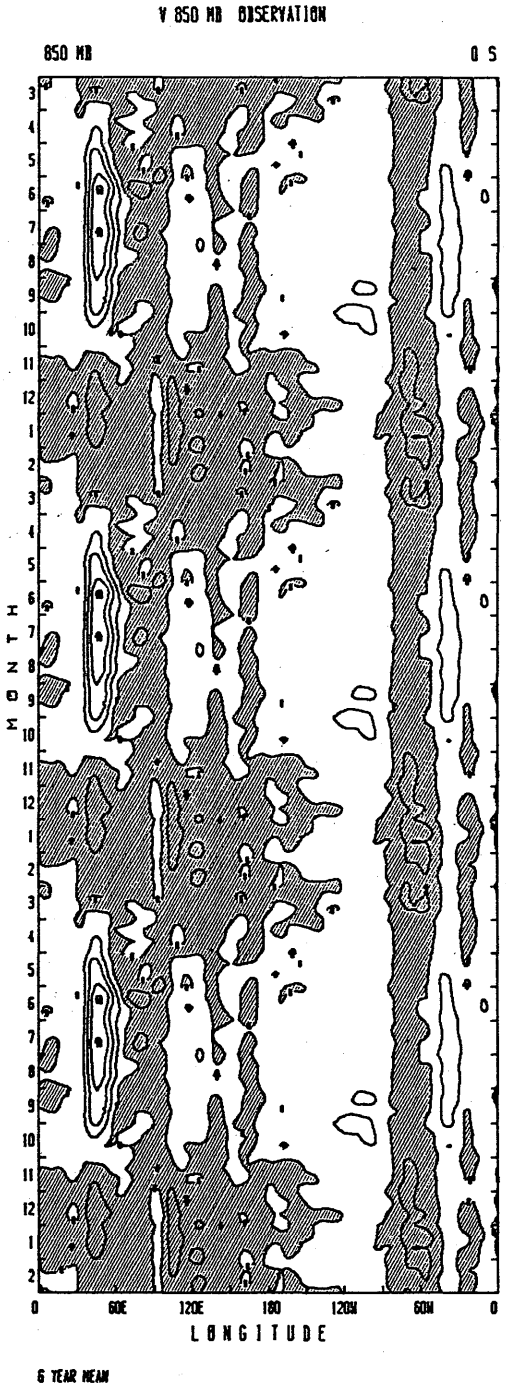

Fig. 5.4.6 Observed 6-year mean meridional winds at 850 mb, equator. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded. Observation is based on the NMC analysis during 1978-1983.

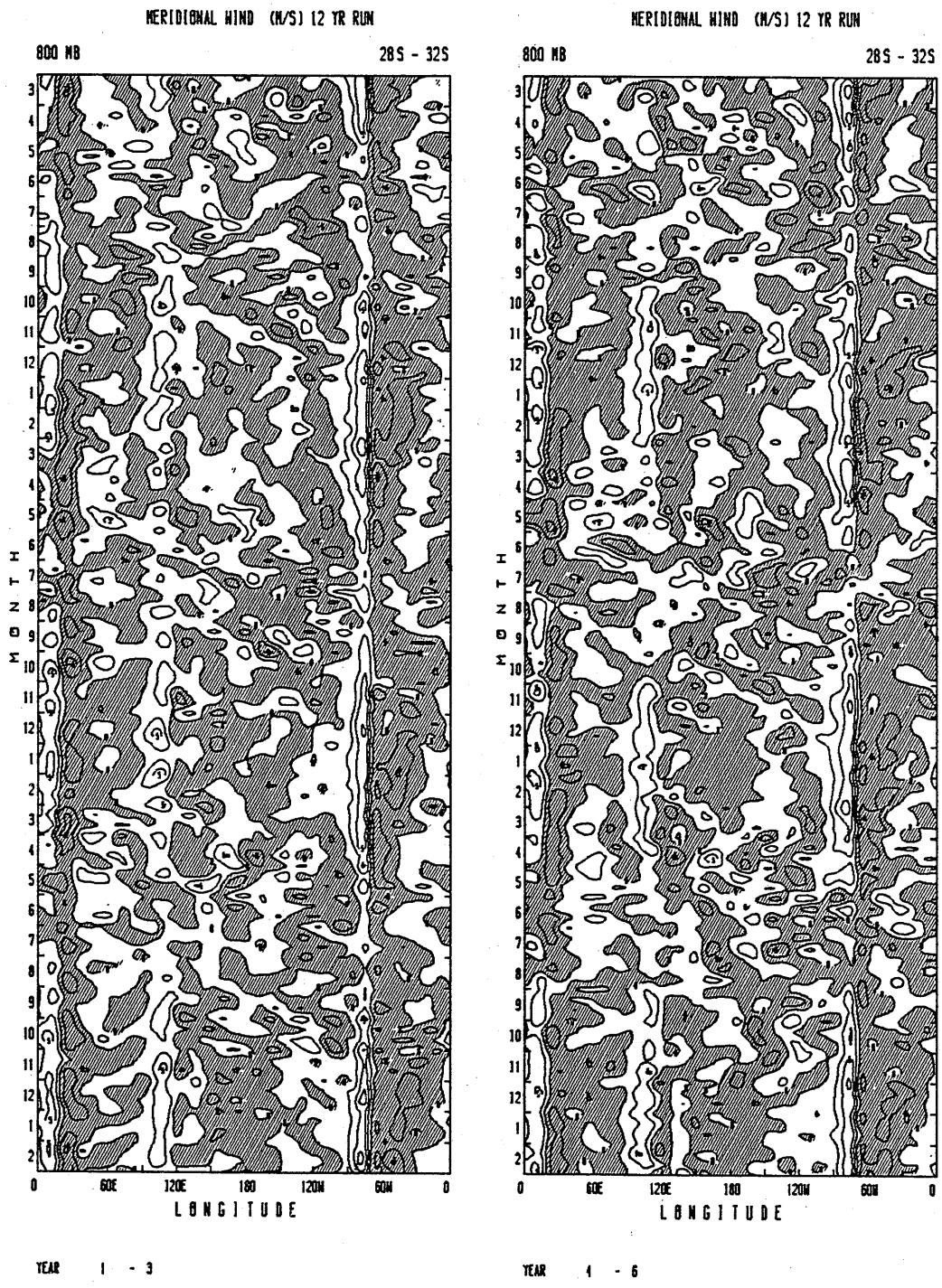

Fig. 5.4.7 Meridional winds at 800 mb, 30° S. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded.

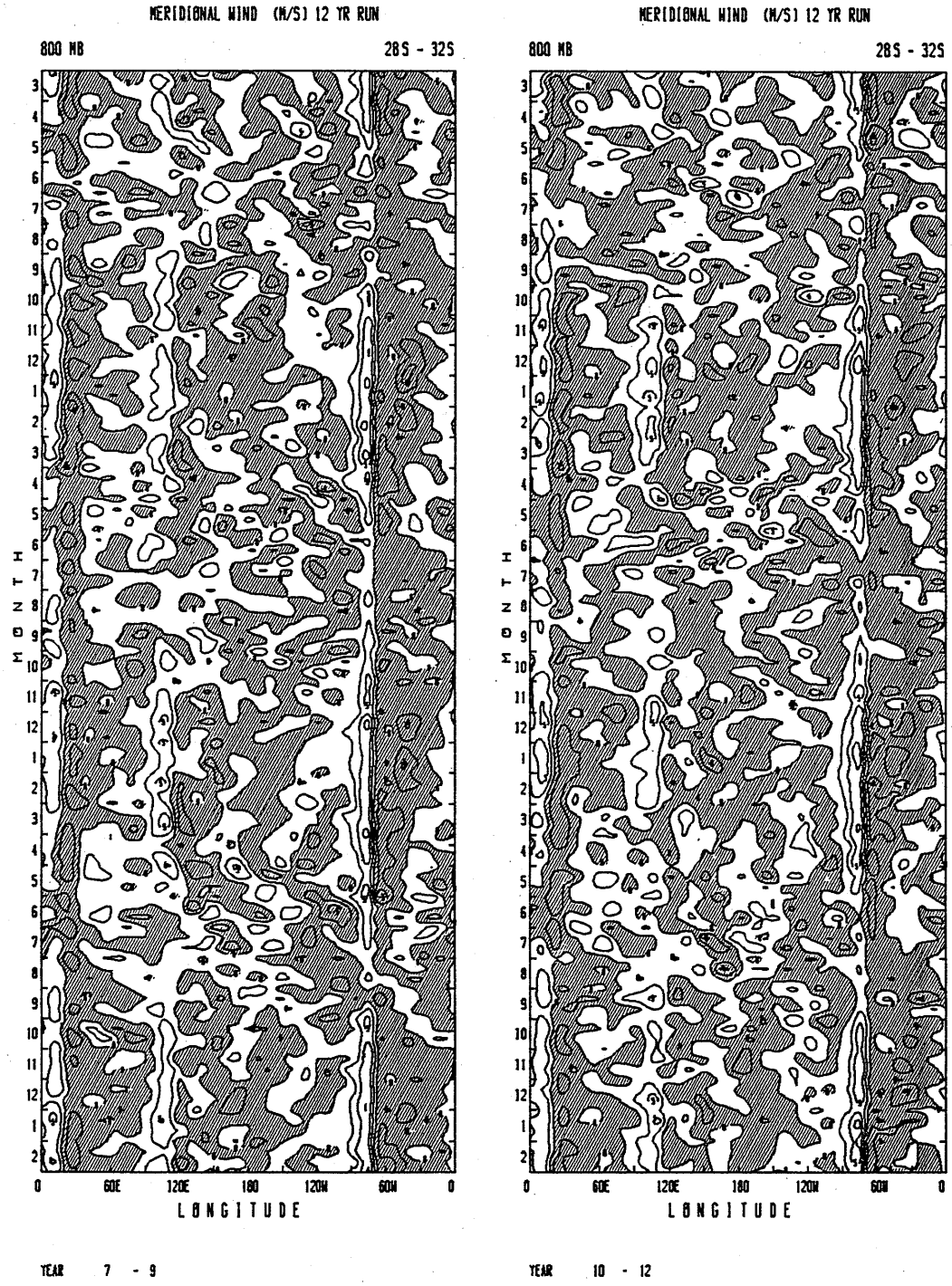

Fig. 5.4.7 (*Continued*)

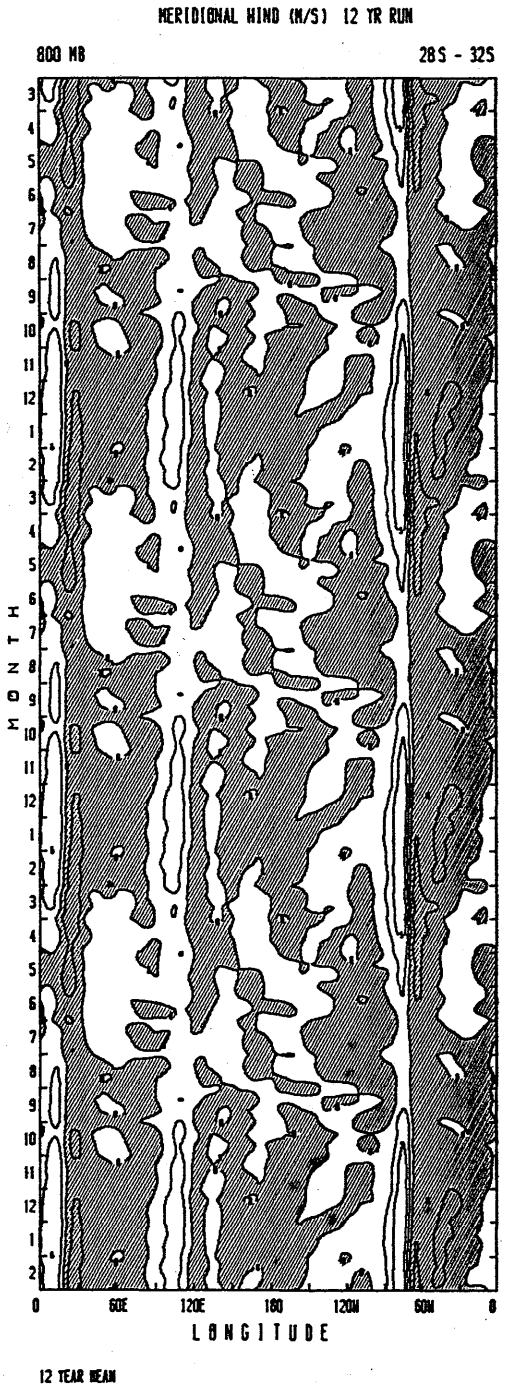

Fig. 5.4.8 Same as in Fig. 5.4.7 except for the 12-year mean field.

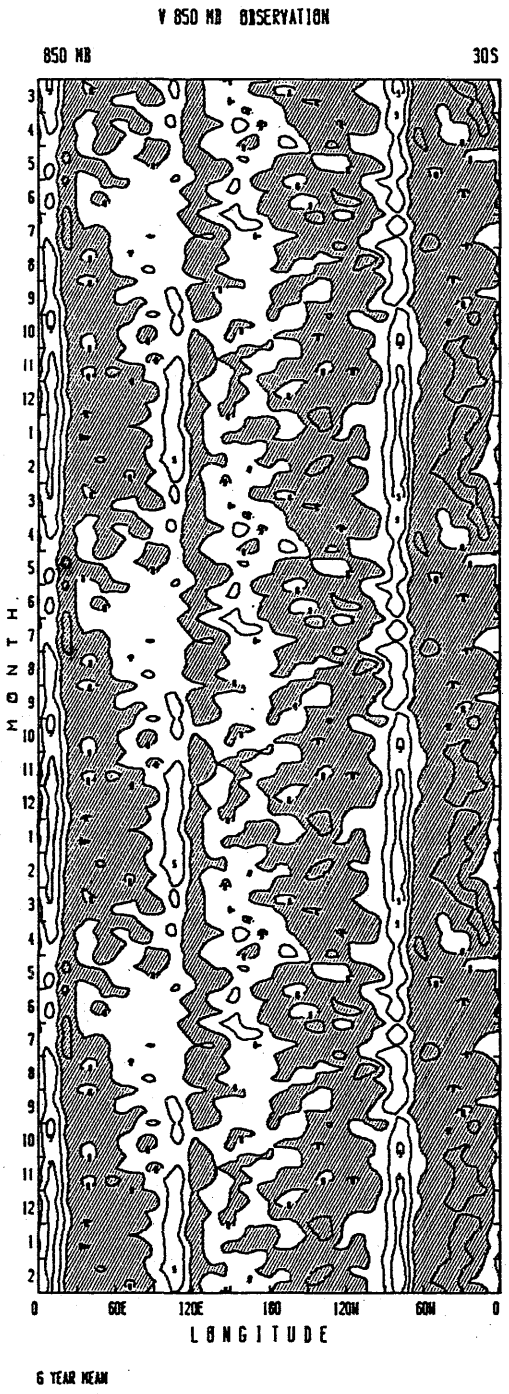

Fig. 5.4.9 Observed 6-year mean meridional winds at 850 mb, 30° S. Contour interval is 2.5 m s^{-1}. Negative values (northerlies) are shaded. Observation is based on the NMC analysis during 1978-1983.

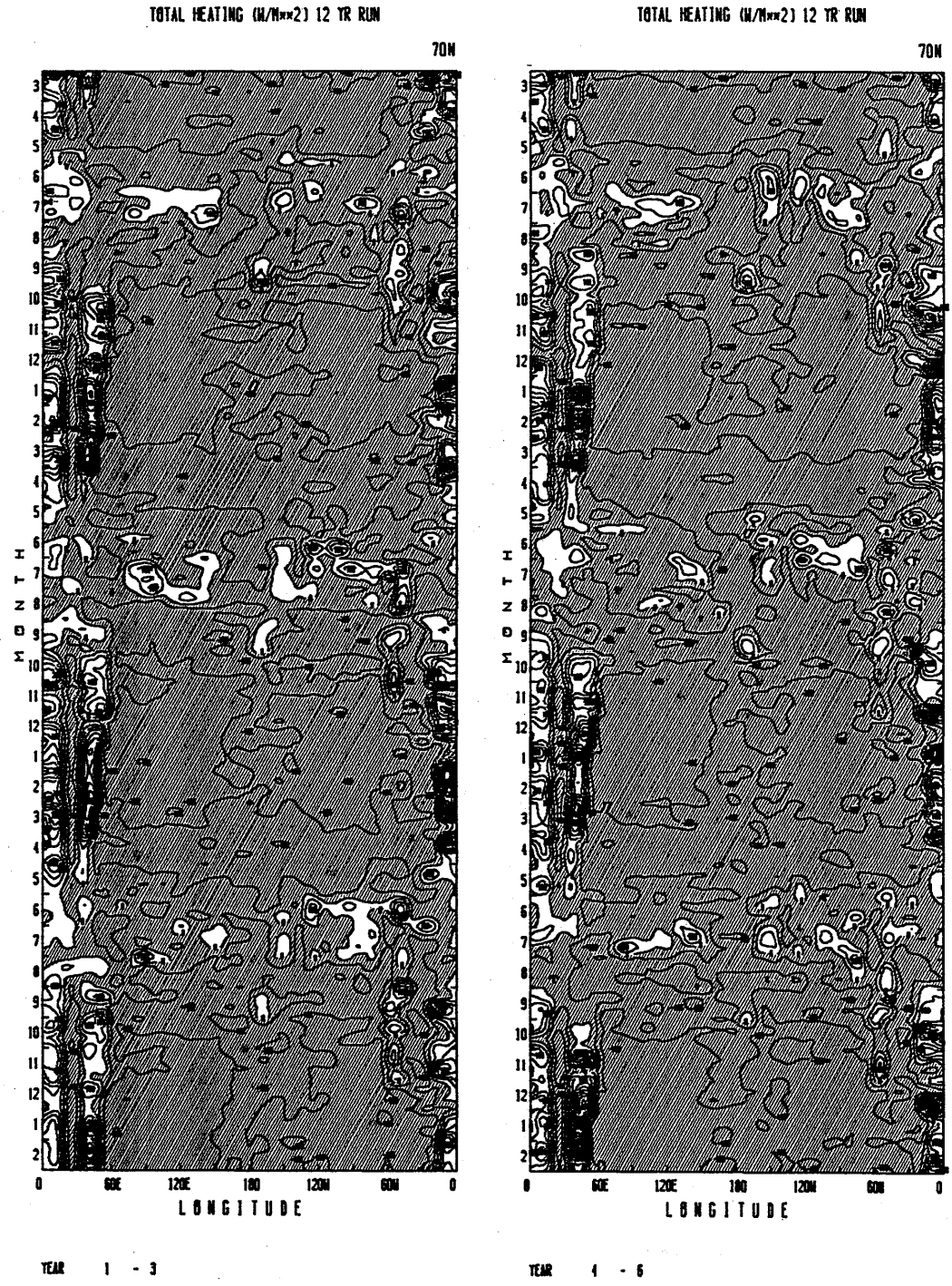

Fig. 5.5.1 Total diabatic heating rate for total air column at 70° N. Contour interval is 50 W m^{-2}. Negative values (cooling) are shaded.

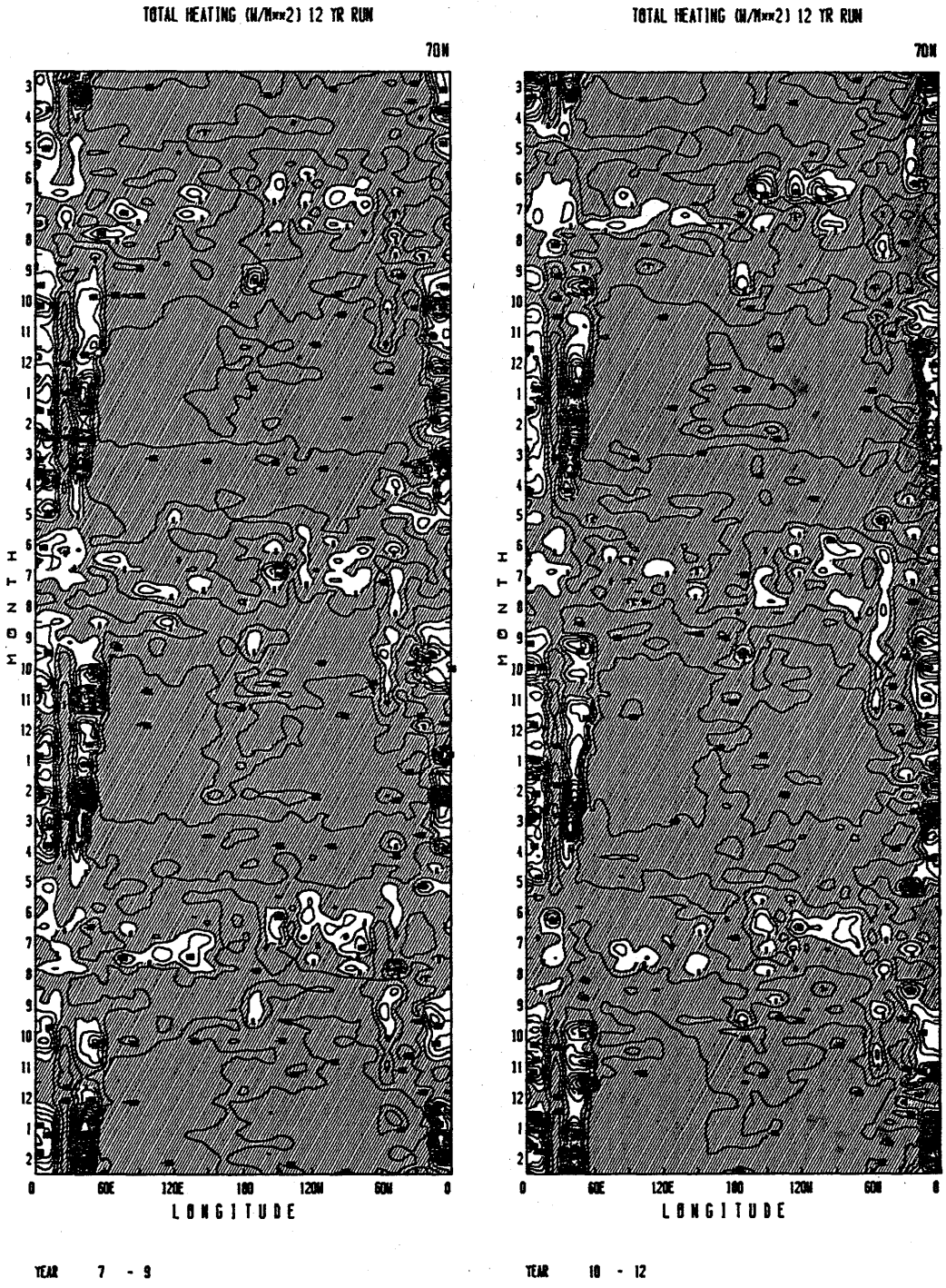

Fig. 5.5.1 (*Continued*)

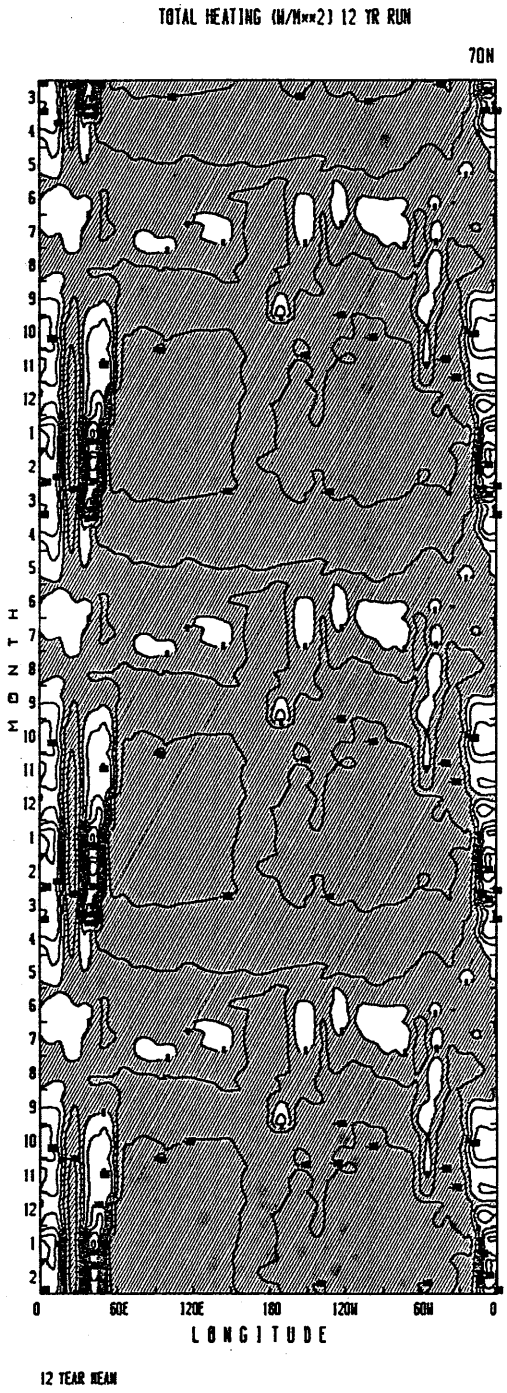

Fig. 5.5.2 12-year mean of total diabatic heating rate for total air column at 70° N. Contour interval is 50 W m^{-2}. Negative values are shaded.

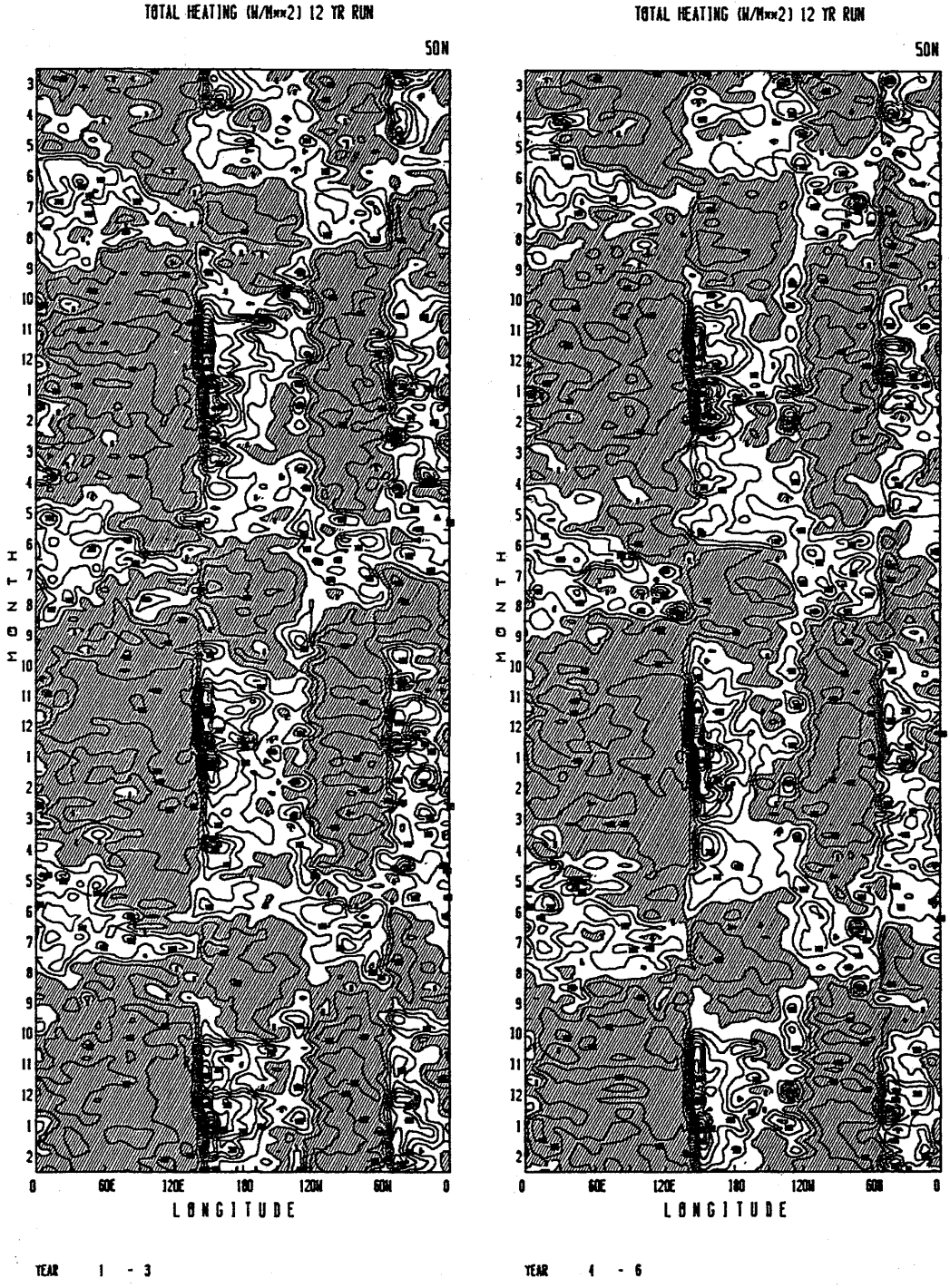

Fig. 5.5.3 Same as in Fig. 5.5.1 except for 50° N.

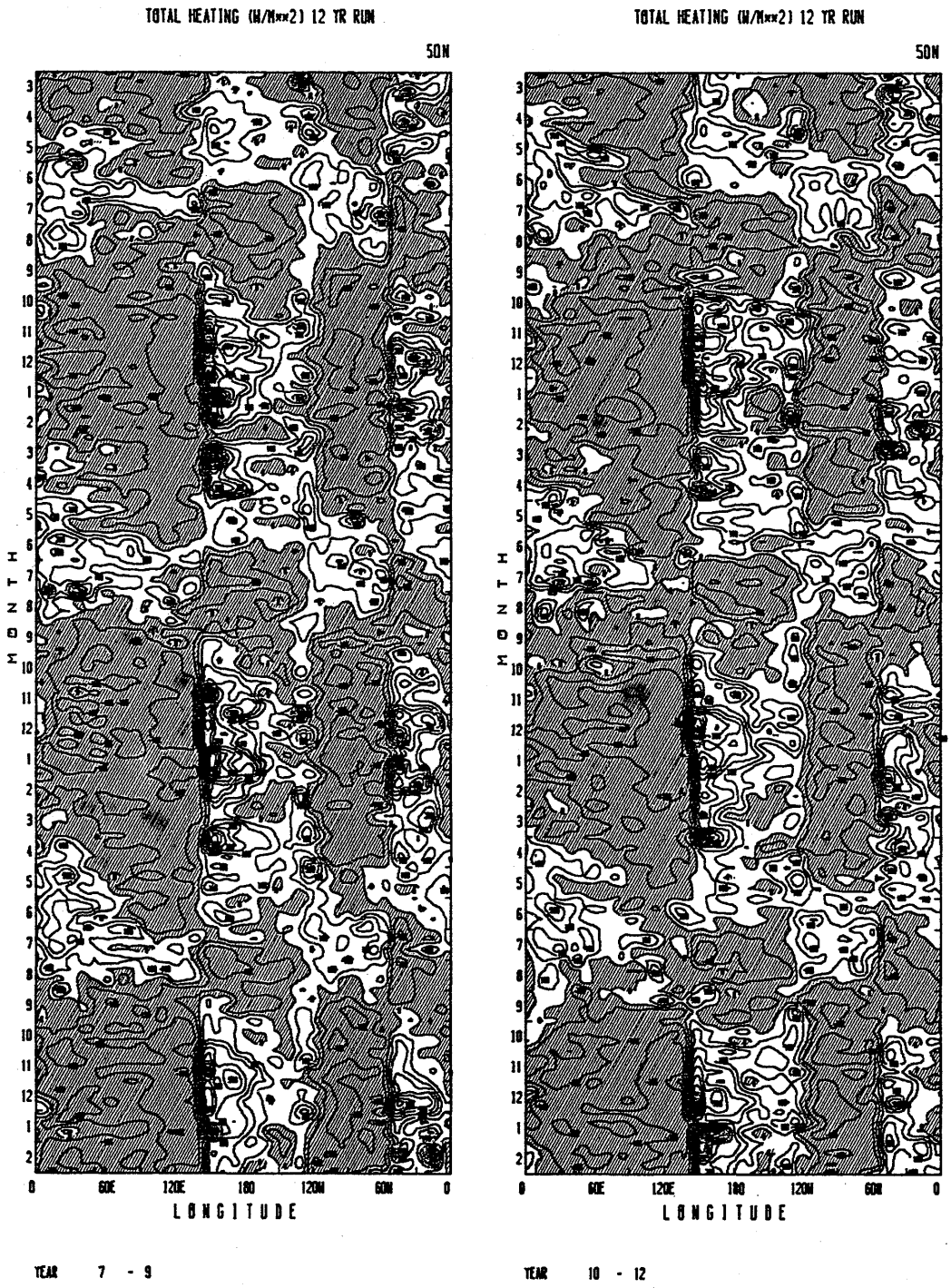

Fig. 5.5.3 (*Continued*)

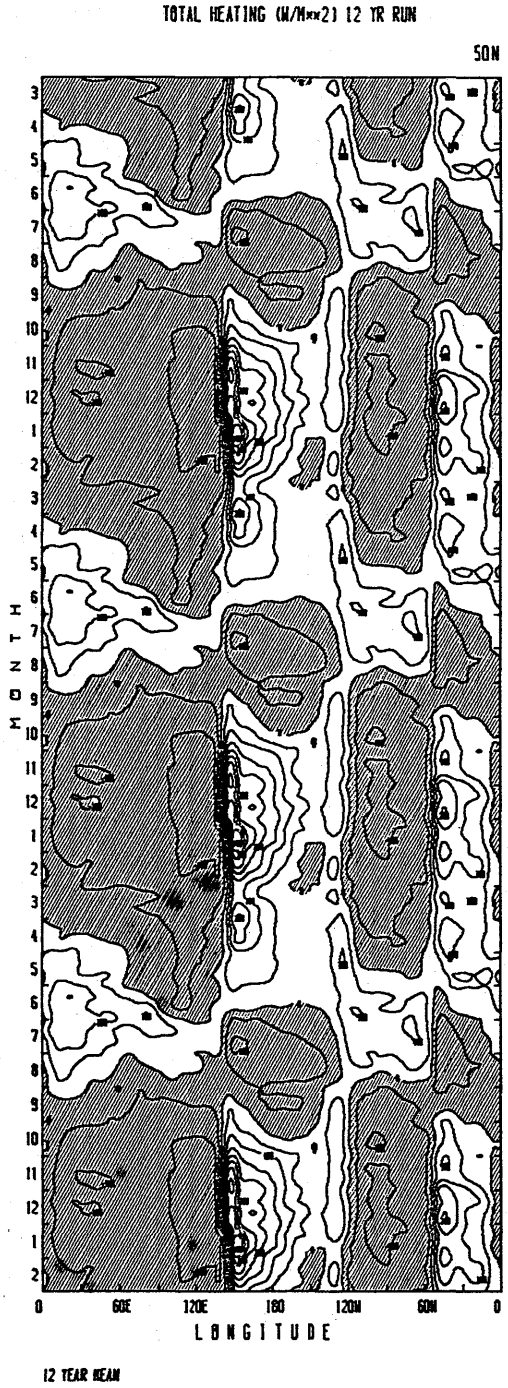

Fig. 5.5.4 Same as in Fig. 5.5.2 except for 50° N.

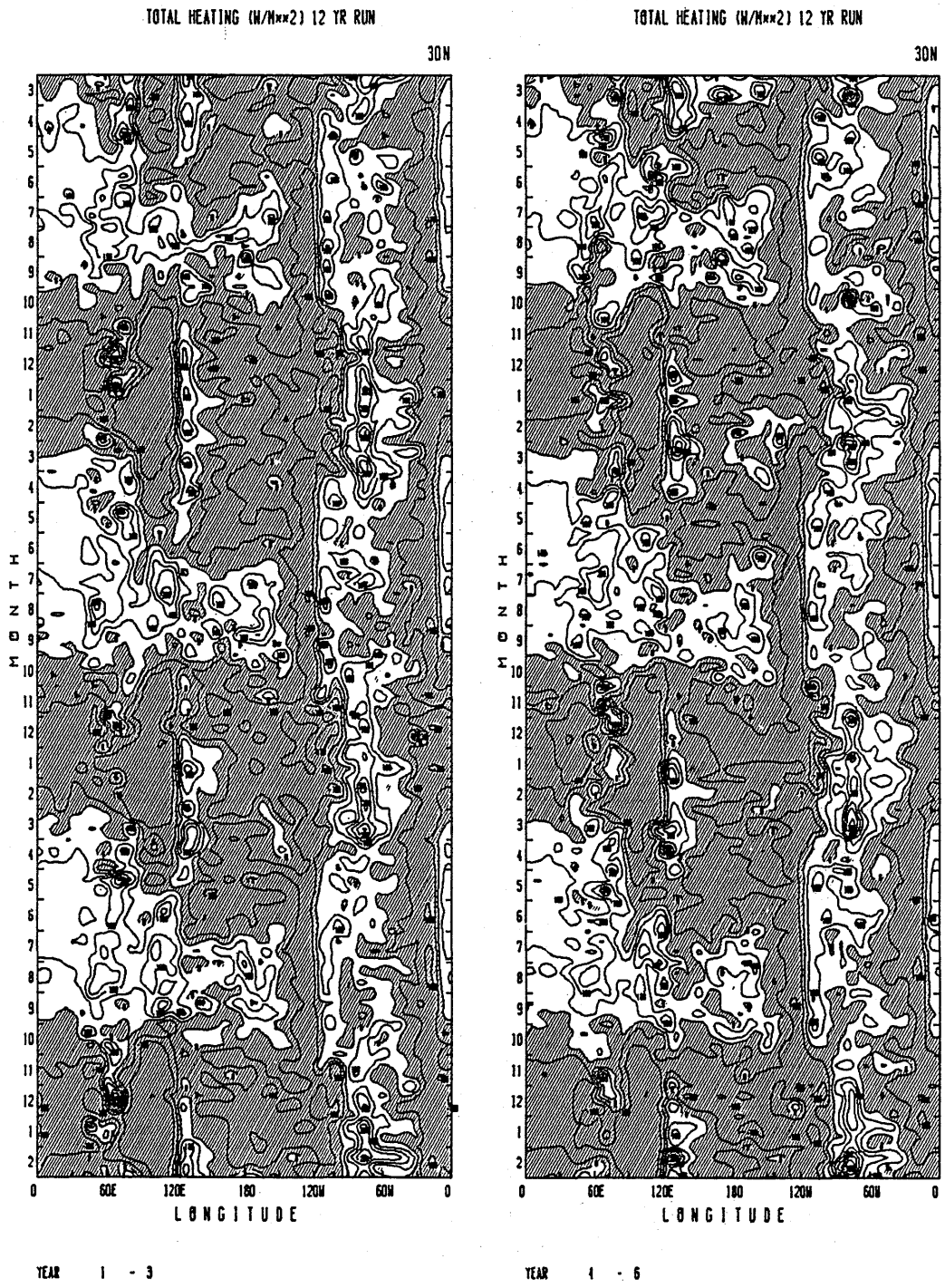

Fig. 5.5.5 Same as in Fig. 5.5.1 except for 30° N.

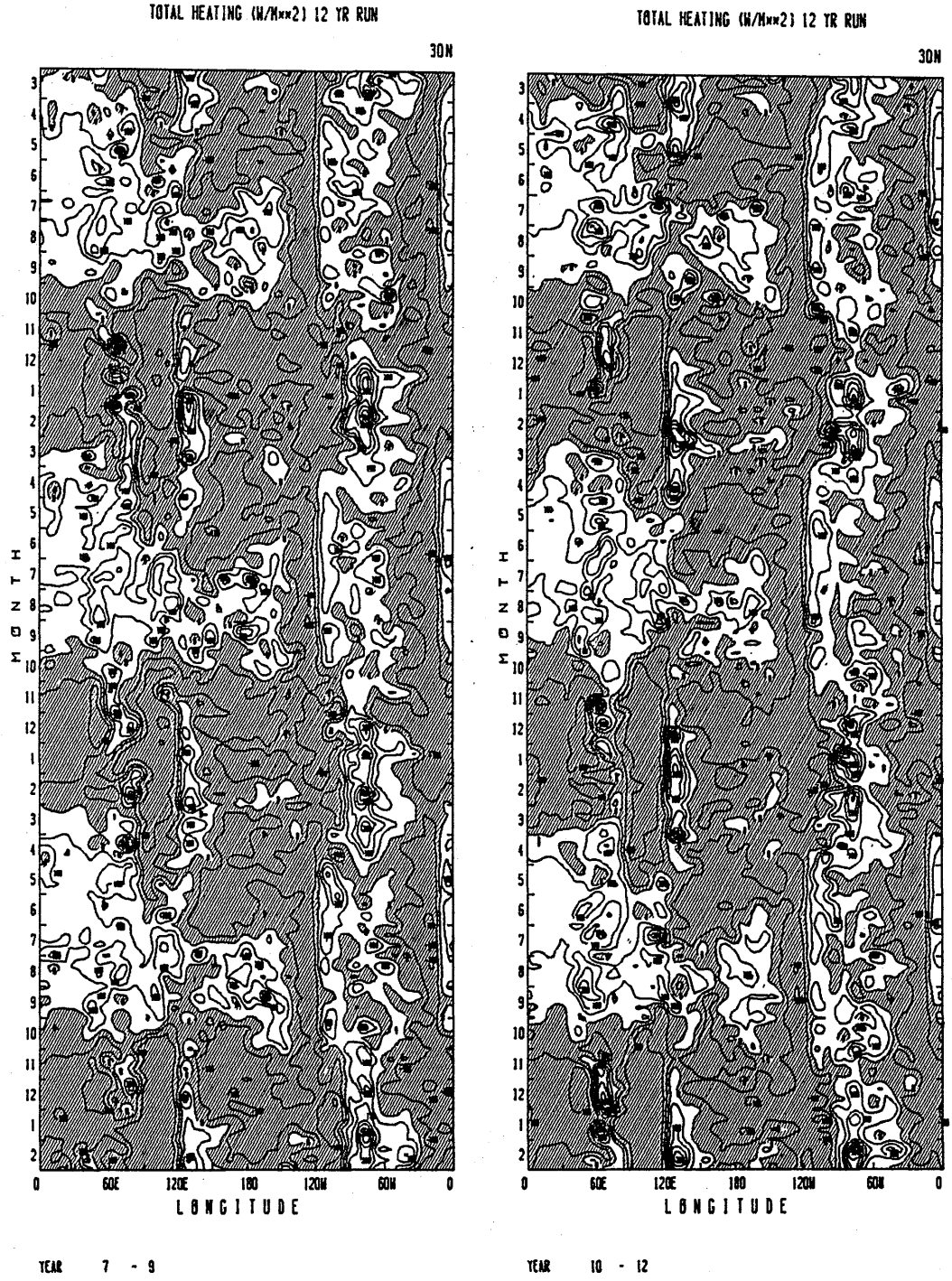

Fig. 5.5.5 (*Continued*)

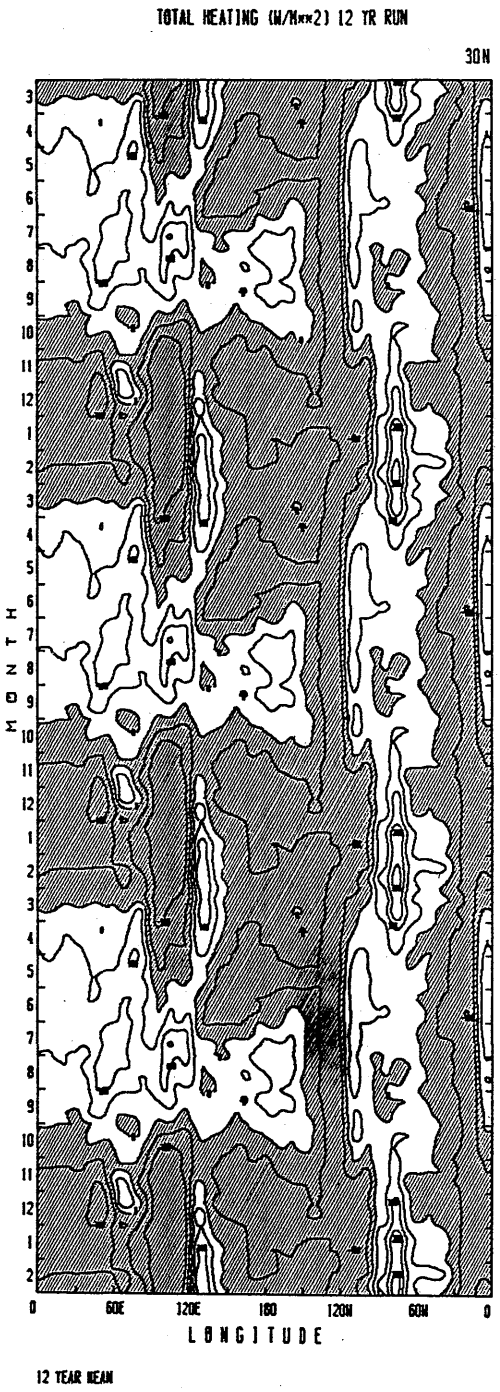

Fig. 5.5.6 Same as in Fig. 5.5.2 except for 30° N.

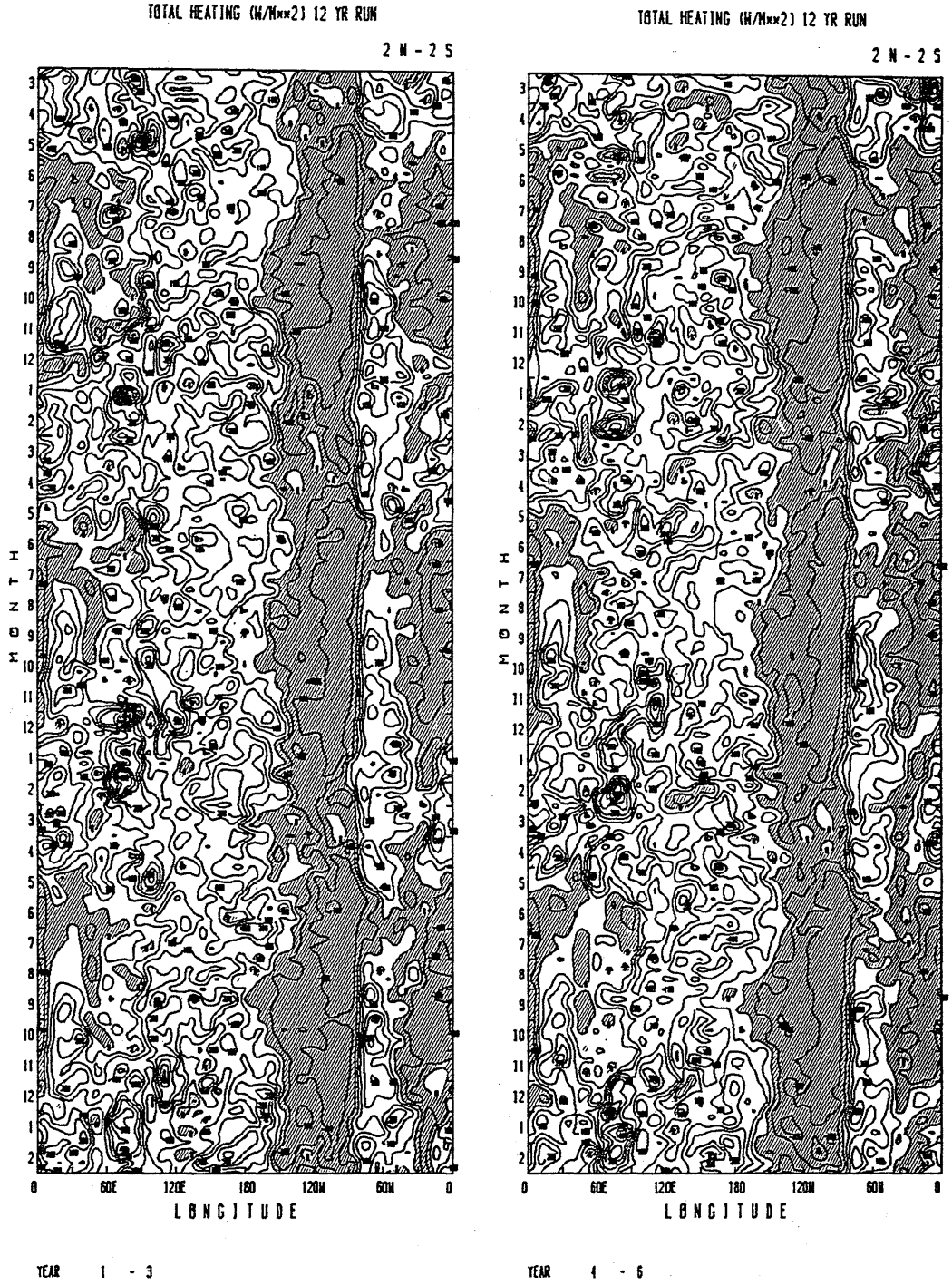

Fig. 5.5.7 Same as in Fig. 5.5.1 except for the equator.

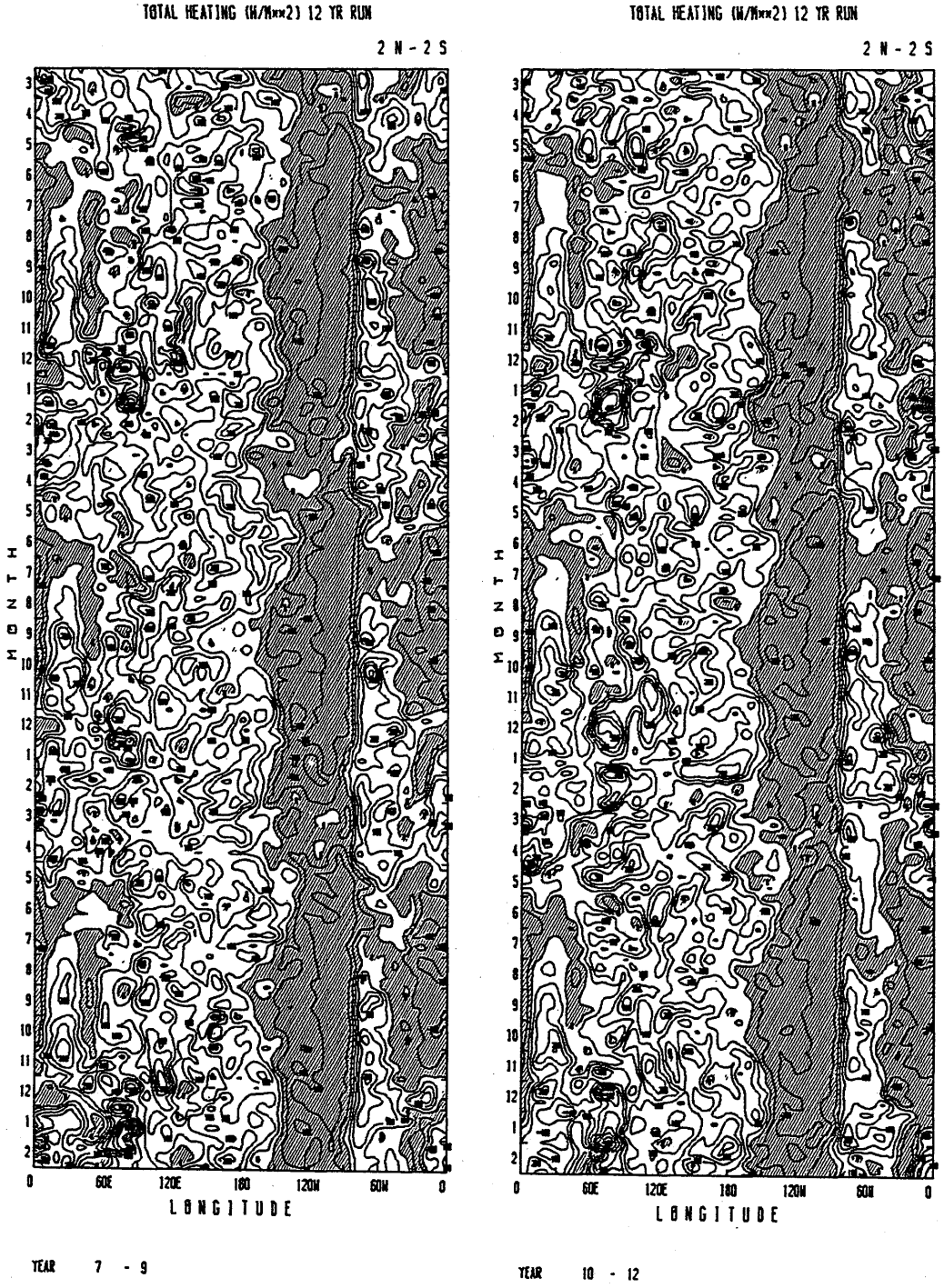

Fig. 5.5.7 (*Continued*)

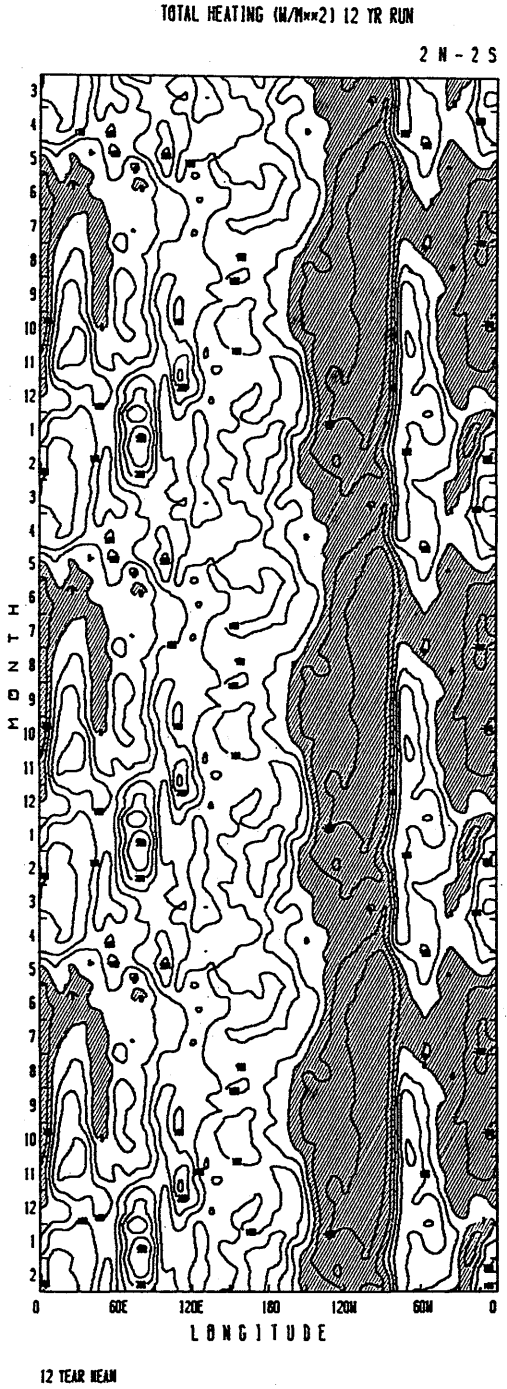

Fig. 5.5.8 Same as in Fig. 5.5.2 except for the equator.

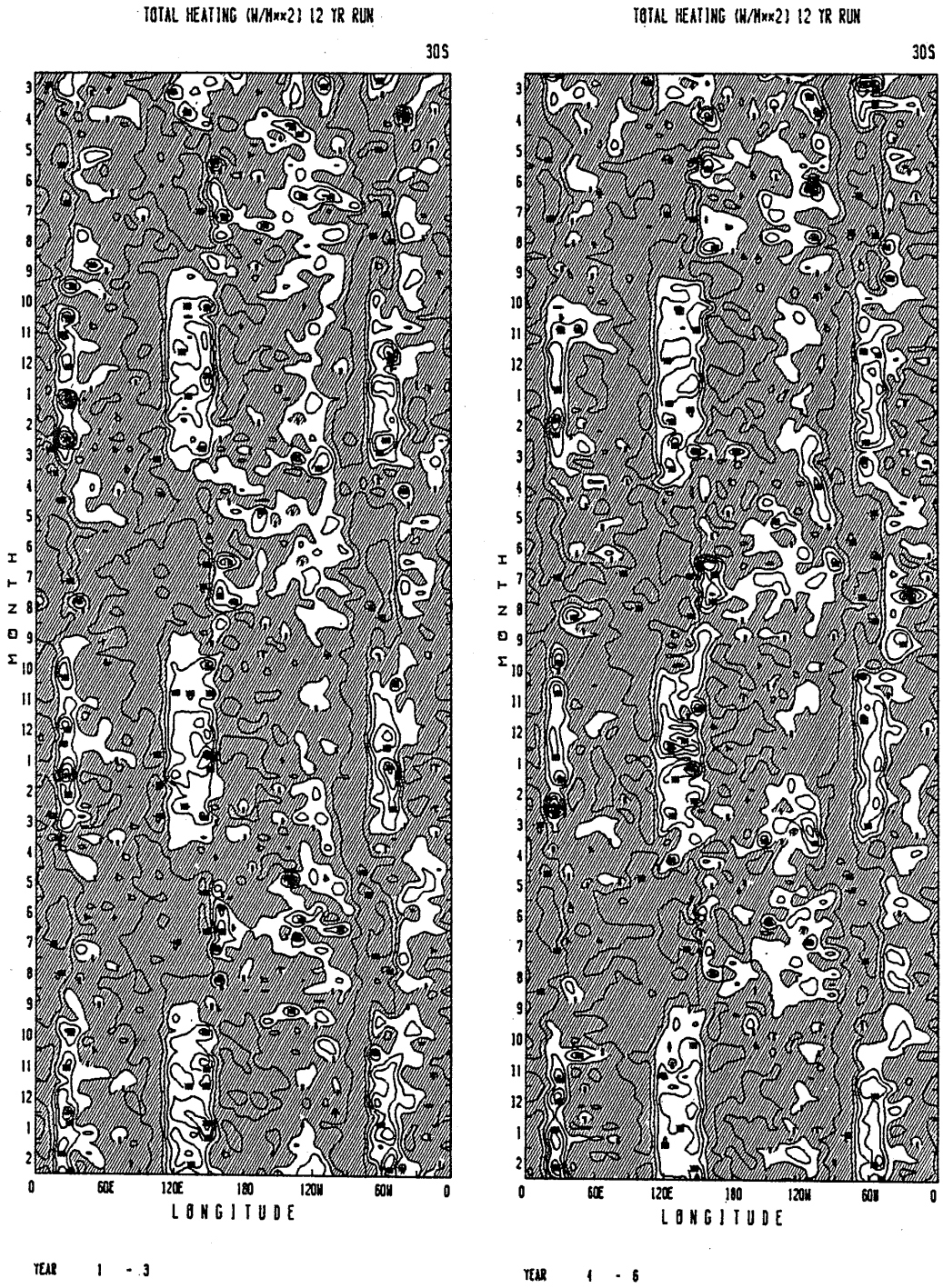

Fig. 5.5.9 Same as in Fig. 5.5.1 except for 30° S.

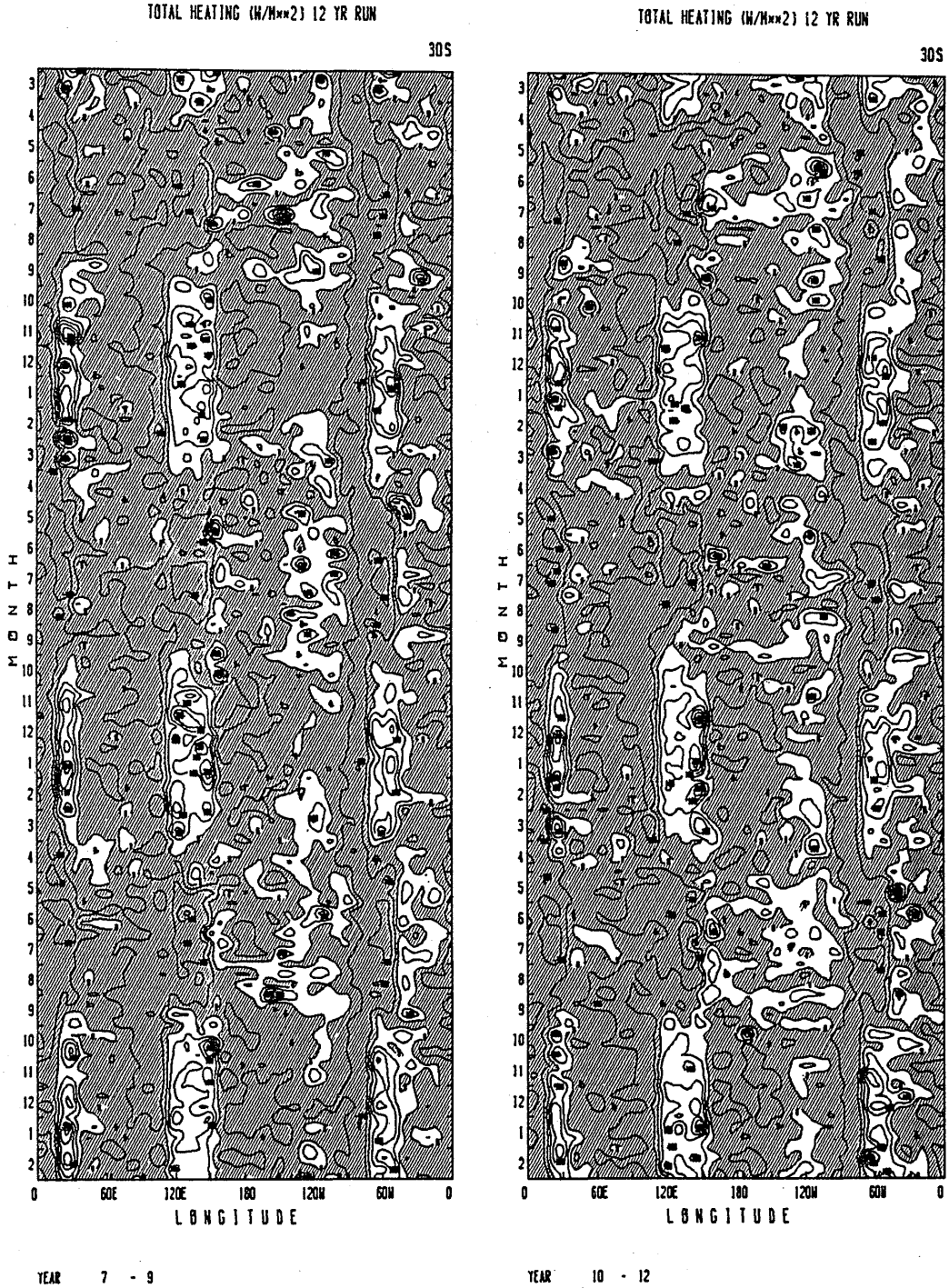

Fig. 5.5.9 (*Continued*)

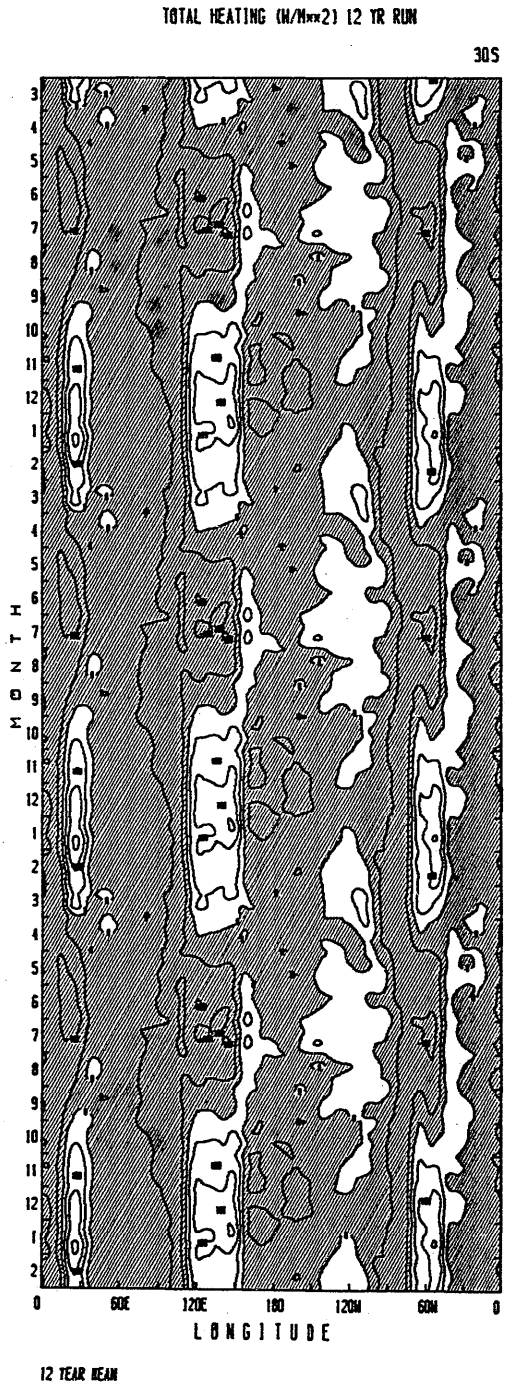

Fig. 5.5.10 Same as in Fig. 5.5.2 except for 30° S.

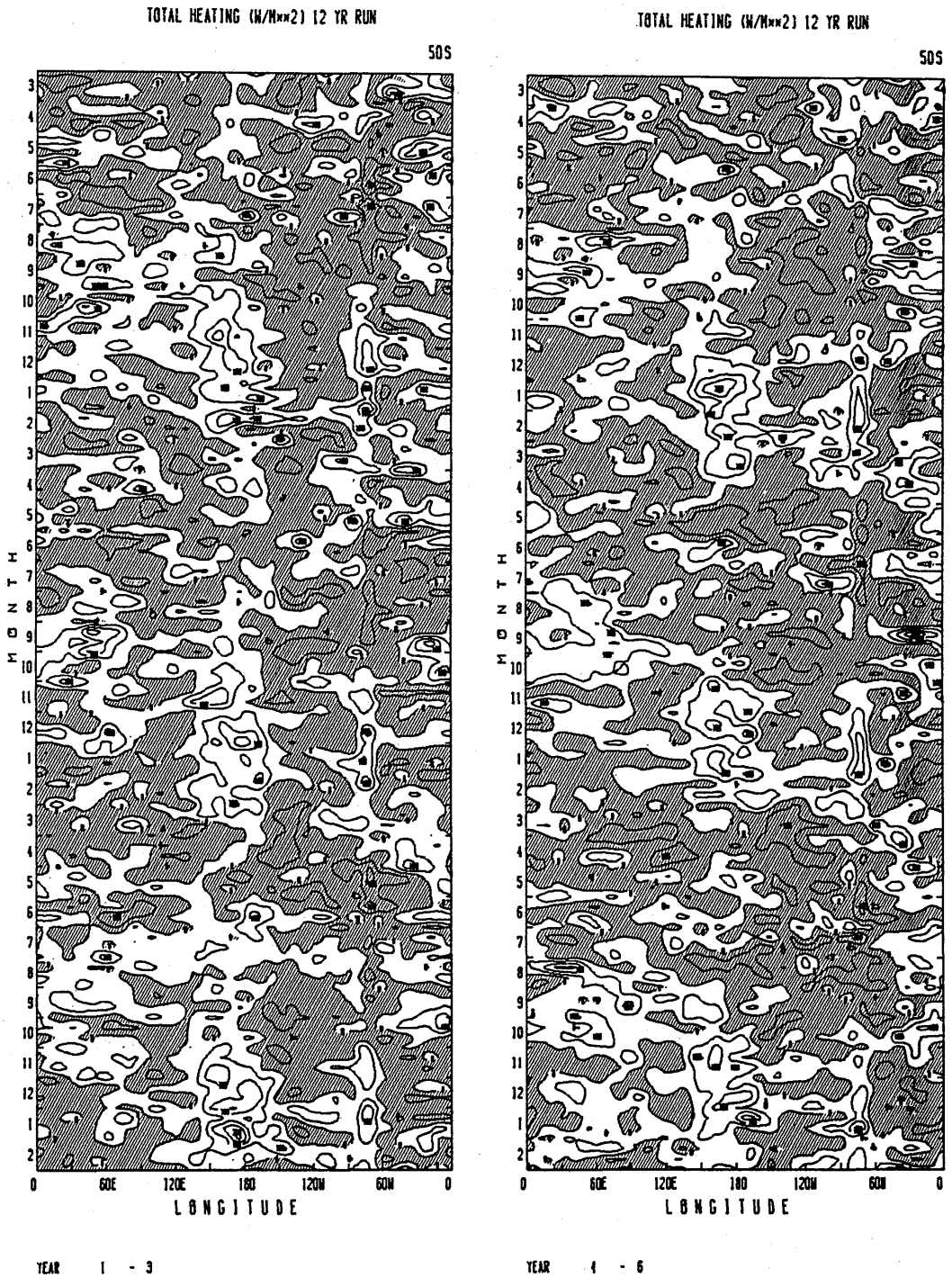

Fig. 5.5.11 Same as in Fig. 5.5.1 except for 50° S.

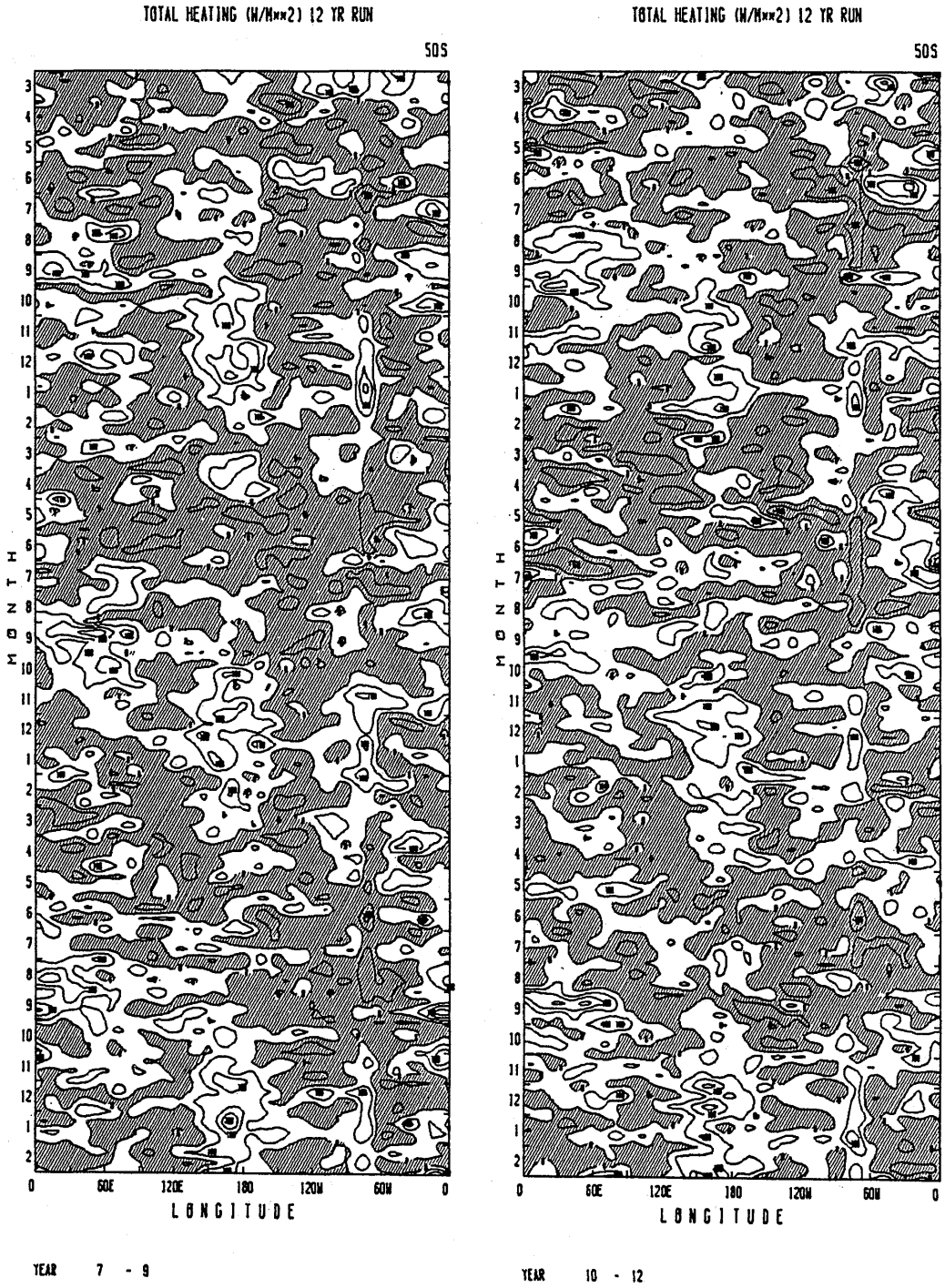

Fig. 5.5.11 (*Continued*)

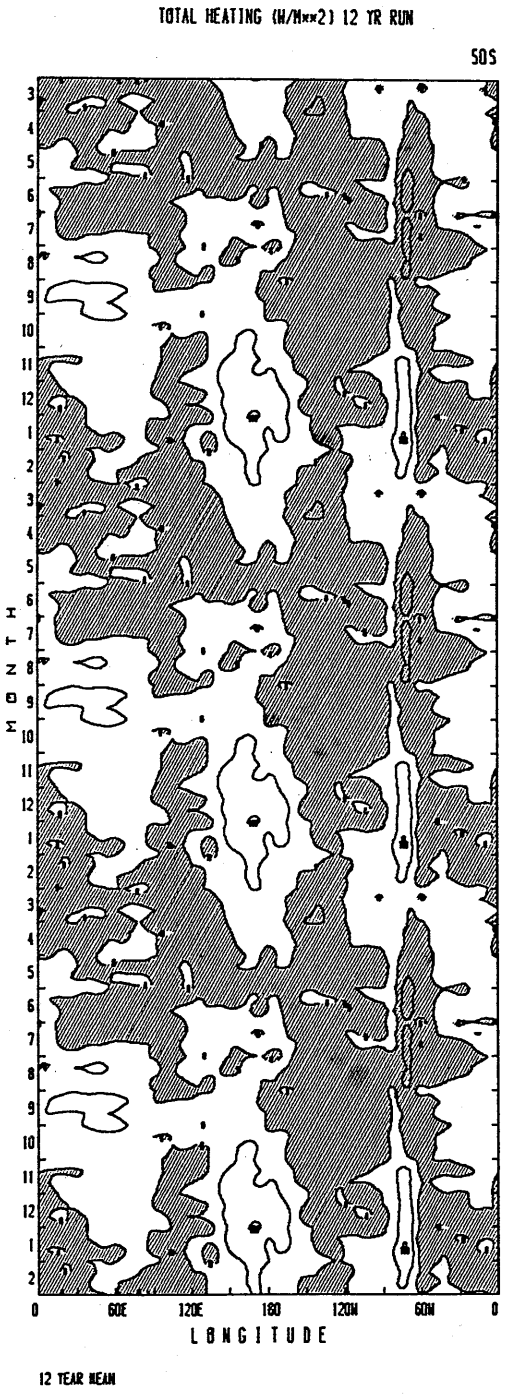

Fig. 5.5.12 Same as in Fig. 5.5.2 except for 50° S.

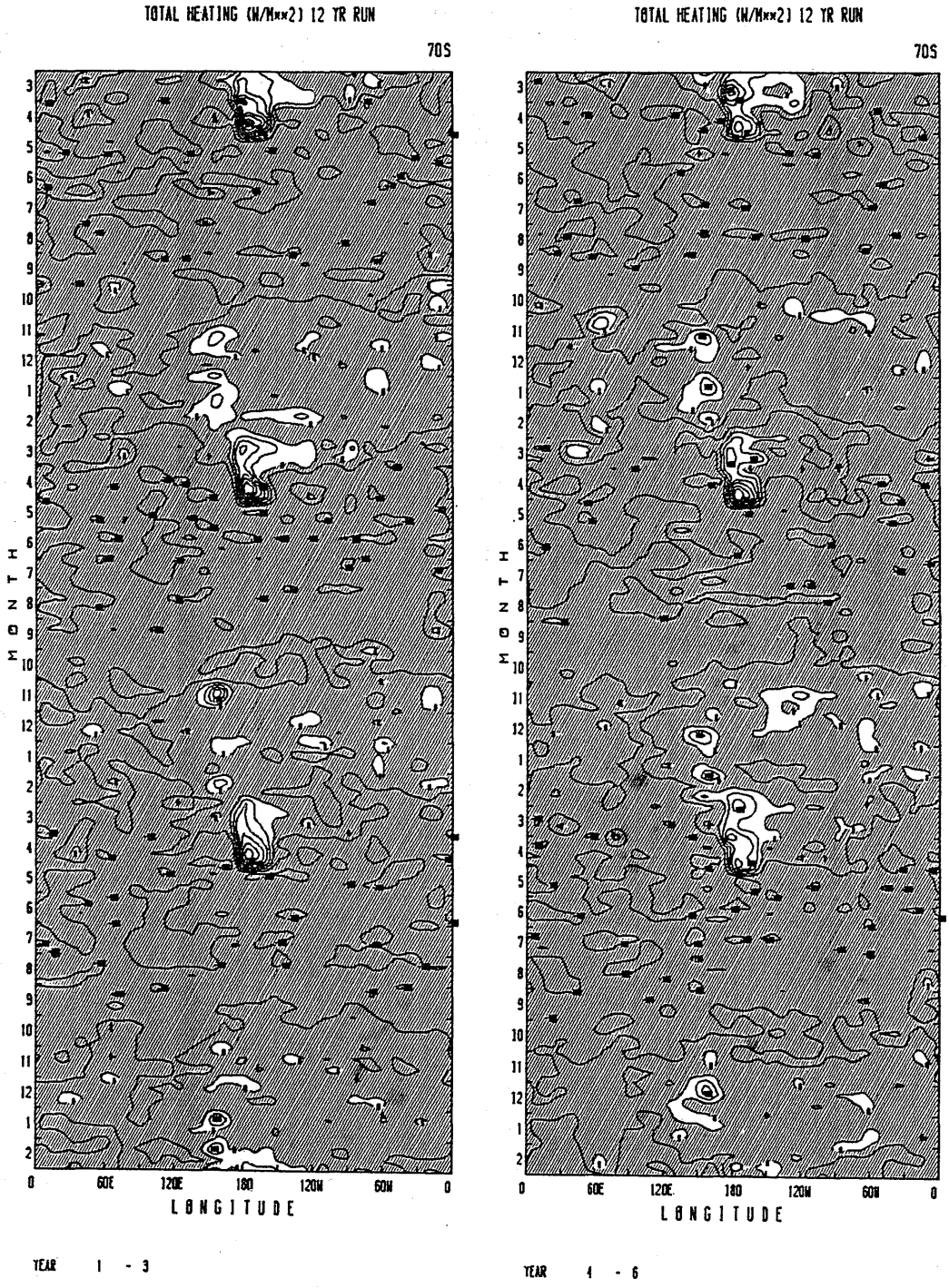

Fig. 5.5.13 Same as in Fig. 5.5.1 except for 70° S.

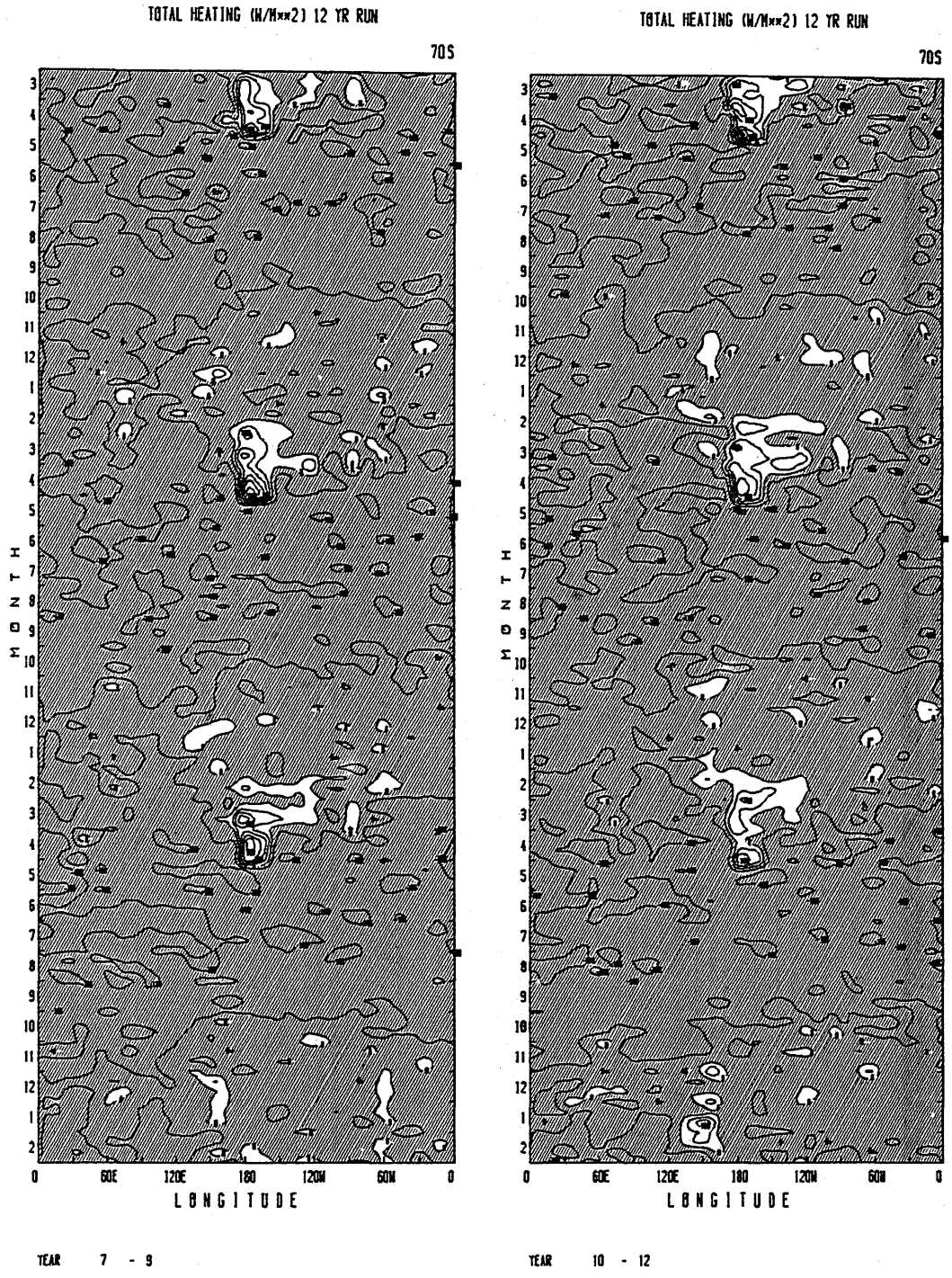

Fig. 5.5.13 (*Continued*)

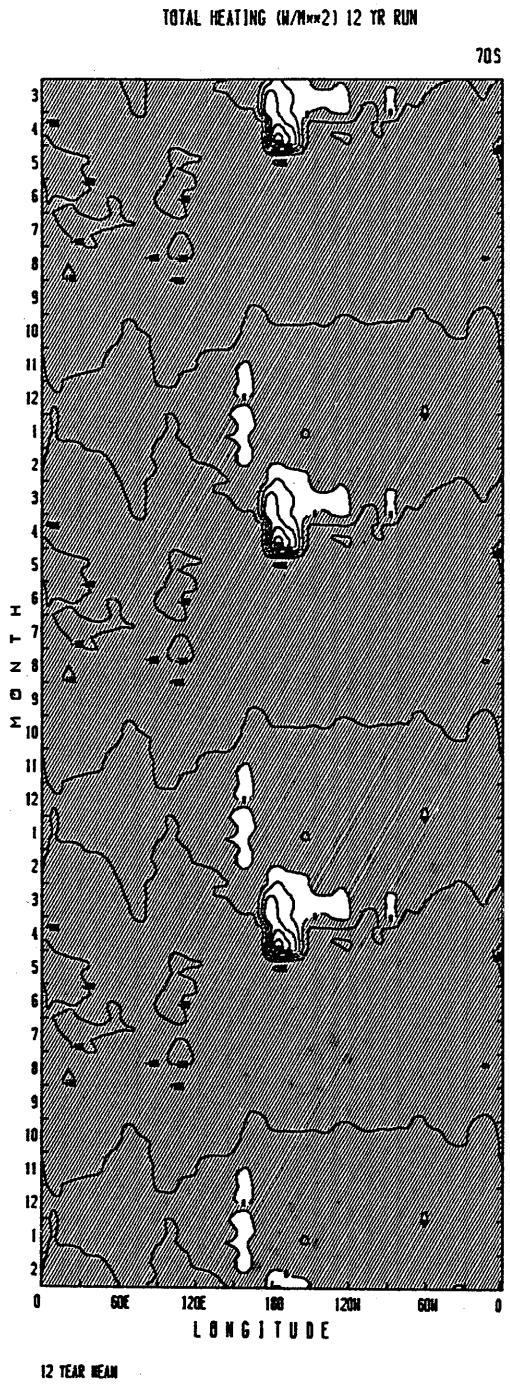

Fig. 5.5.14 Same as in Fig. 5.5.2 except for 70° S.

気 象 研 究 所

1946年（昭和21年）設立

所 長：理博　関　口　理　郎

予報研究部	部 長：理博	相 原	正 彦
台風研究部	部 長：	正 村	敬 三
物理気象研究部	部 長：	植 村	八 郎
応用気象研究部	部 長：	真 島	恒 裕
気象衛星研究部	部 長：	鯉 沼	正 一
地震火山研究部	部 長：理博	市 川	政 治
海洋研究部	部 長：理博	飯 田	隼 人
高層物理研究部	部 長：理博	村 松	久 史
地球化学研究部	部 長：水産博	川 原 田	裕

気象研究所技術報告は，気象学，海洋学，地震学，その他関連の地球科学の分野において，気象研究所職員が得た研究成果に関し、技術報告，資料報告及び総合報告を掲載する。

気象研究所技術報告は，1978年（昭和53年）以降，必要の都度刊行される。

昭和62年１月31日発行　ＩＳＳＮ　0386－4049
編集兼発行所　気 象 研 究 所
茨城県筑波郡谷田部町長峰１－１
印 刷 所　株式会社　エリート印刷
茨城県牛久市柏田町3269