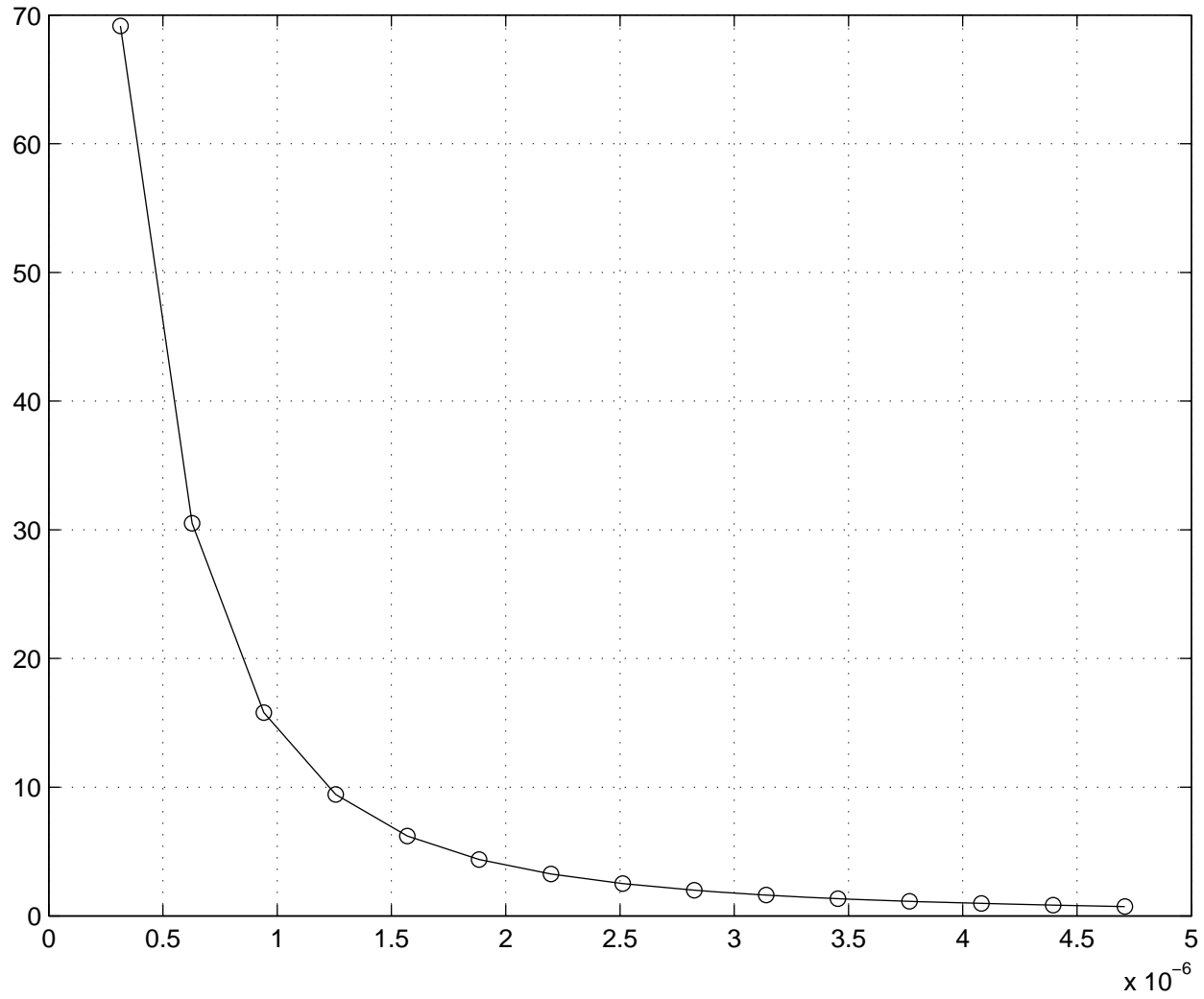


Uc for 45°



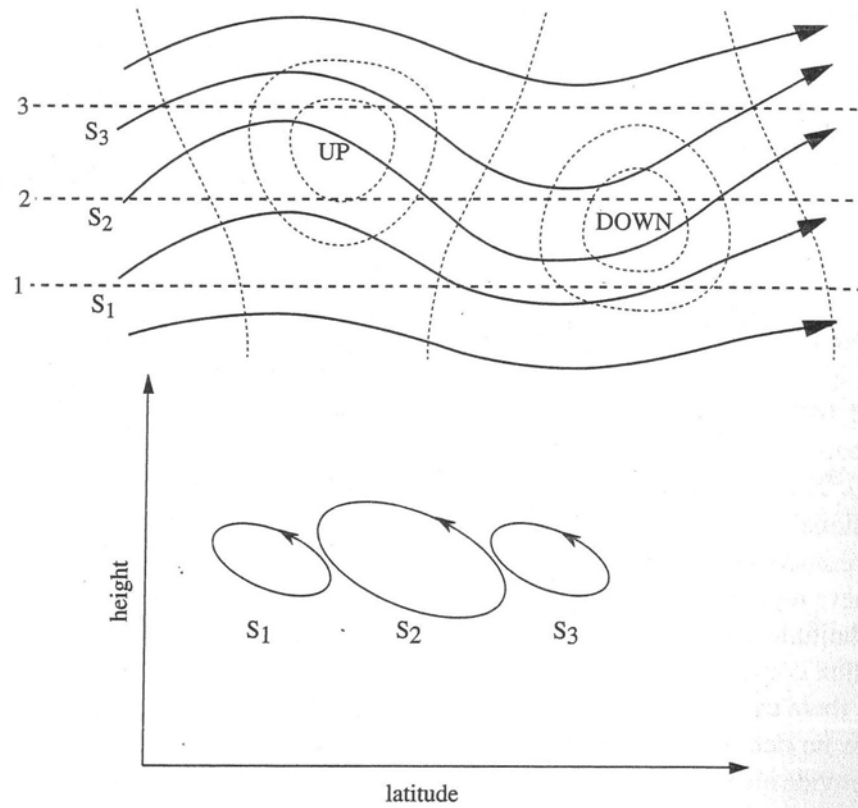


Fig. 12.5 Parcel motions for an adiabatic planetary wave in a westerly zonal flow. (a) Solid lines labeled S_1 , S_2 , S_3 , are parcel trajectories, heavy dashed lines are latitude circles, and light dashed lines are contours of vertical velocity field. (b) Projection of parcel oscillations on the meridional plane.

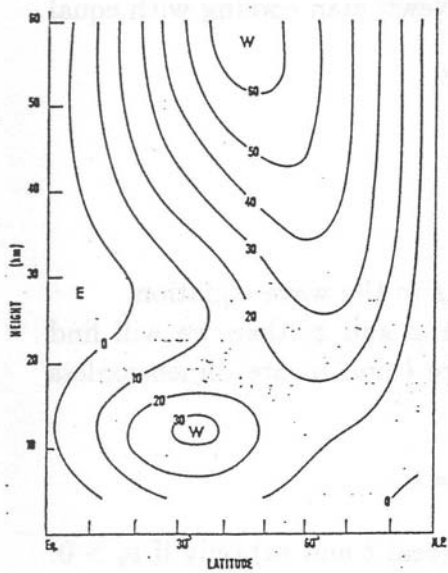


FIG. 1. The model basic state zonal wind distribution (m sec^{-1}) in the winter Northern Hemisphere.

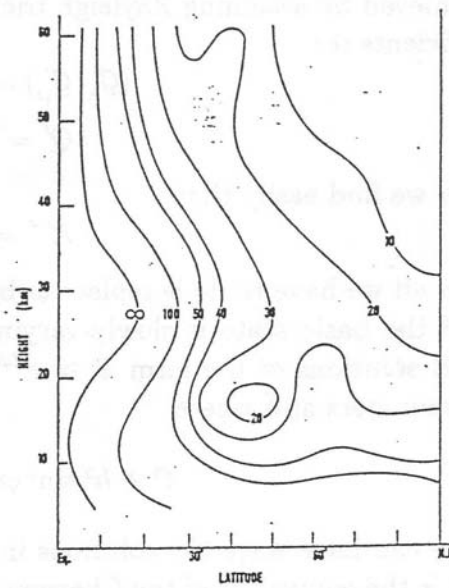


FIG. 3. The refractive index square Q_0 for the $m=0$ wave.

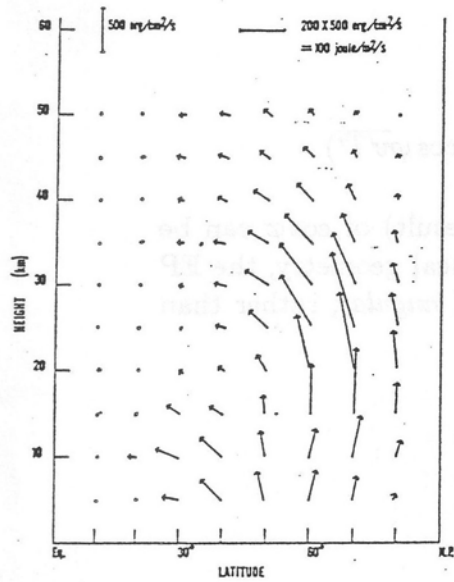


FIG. 13. Computed distribution of energy flow in the meridional plane associated with the $m=1$ wave shown in Fig. 5.

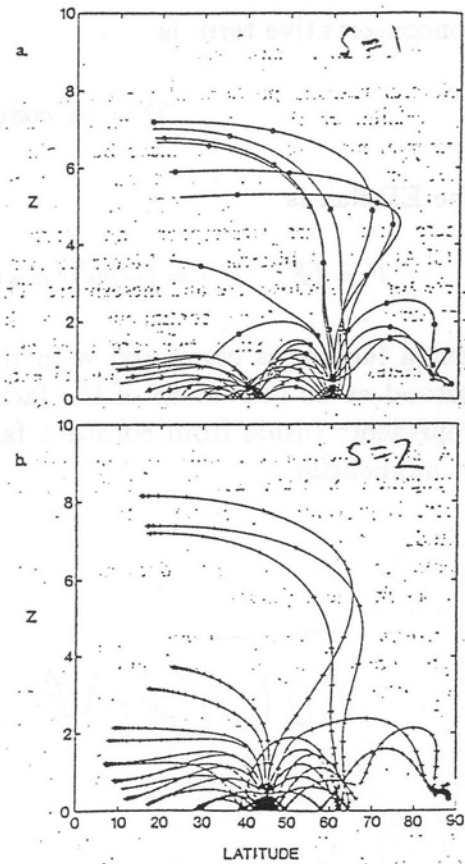
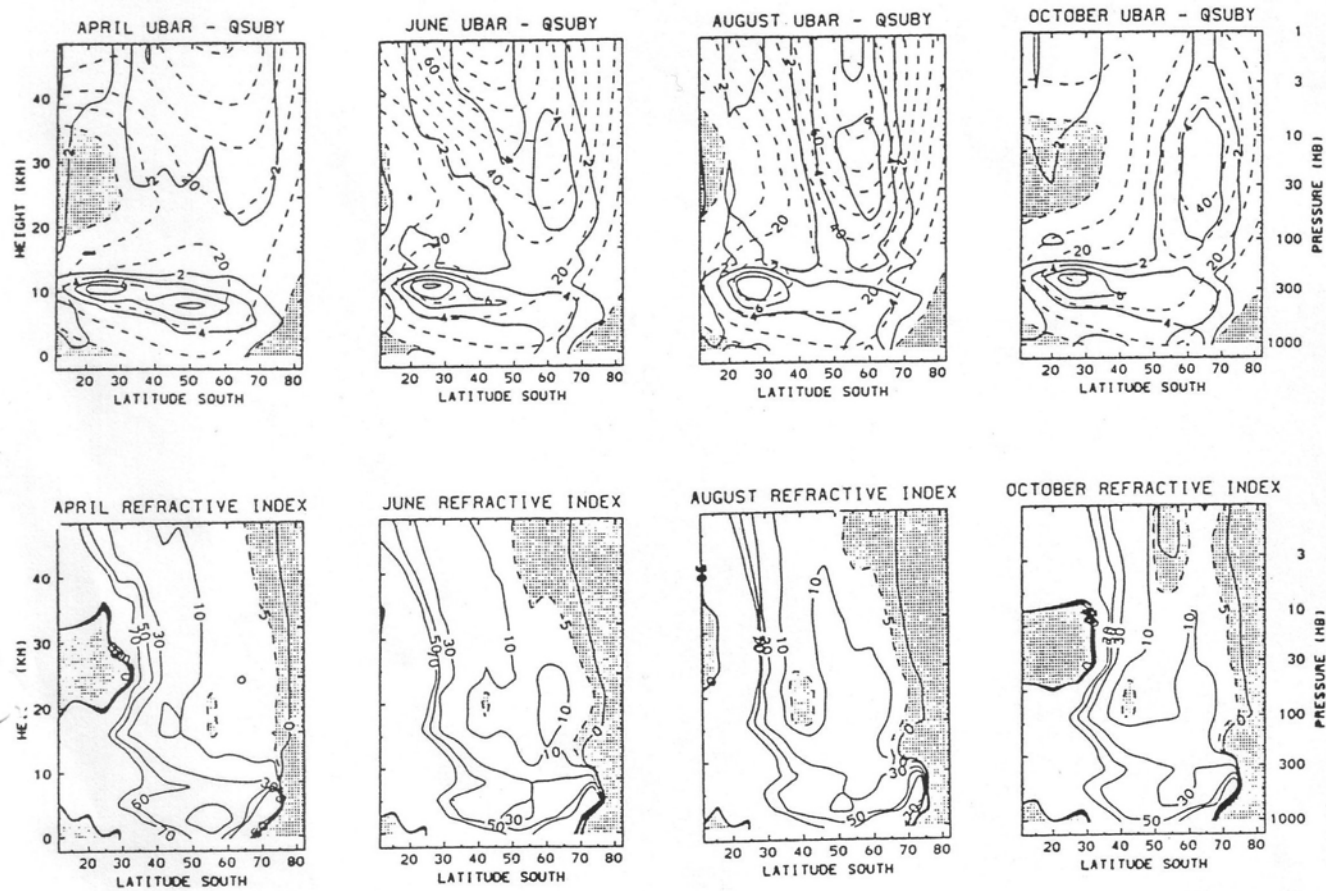
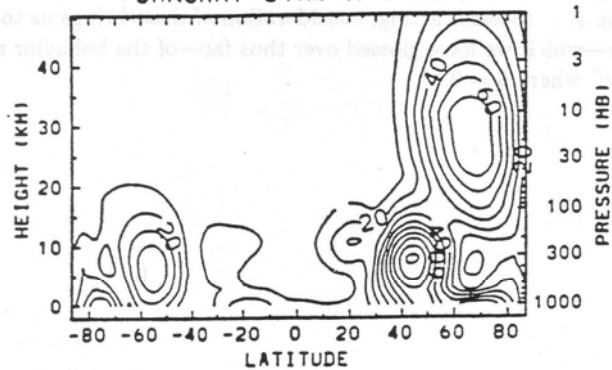


Figure 6.12: Arrows parallel to EP flux for matsuno's solution (left) and wave rays (parallel to c_g) for N Hem winter state (Karoly & Hoskins).

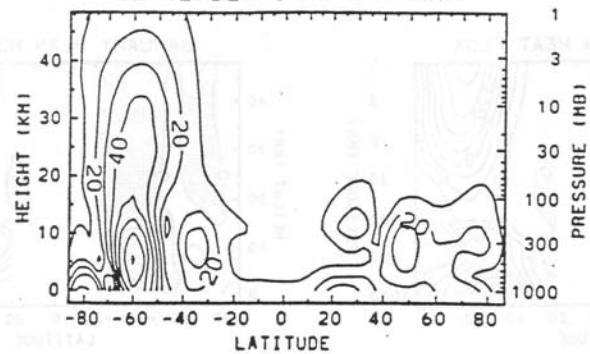


6.13 Fig. 8 (Top) Meridional cross sections of the zonal wind (dashed lines, contours of 10 m/s) and quasi-geostrophic potential vorticity gradient (solid lines, contours of $10^{-10} \text{ m}^{-1} \text{ s}^{-1}$) and (bottom), quasi-geostrophic

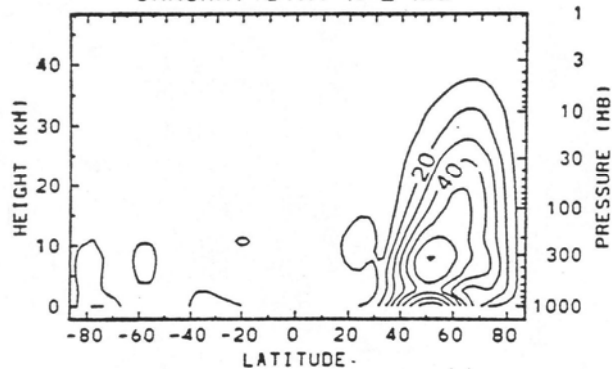
JANUARY STAT K=1 AMP



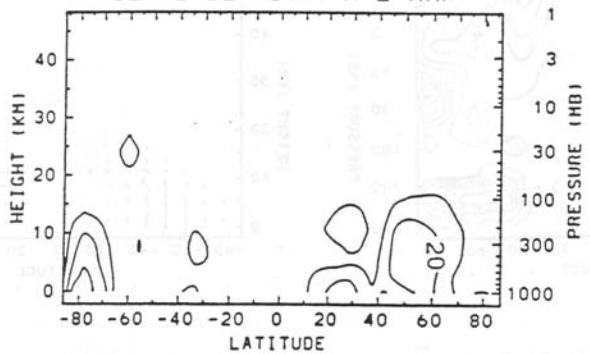
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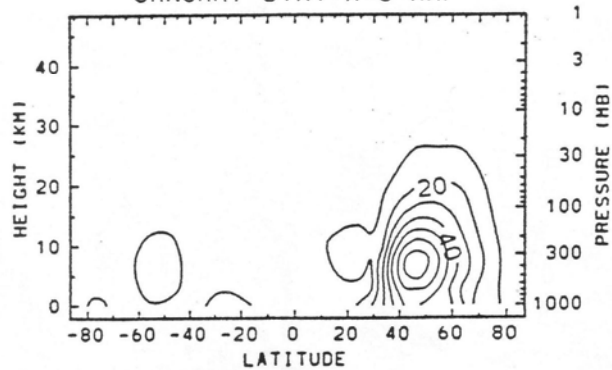
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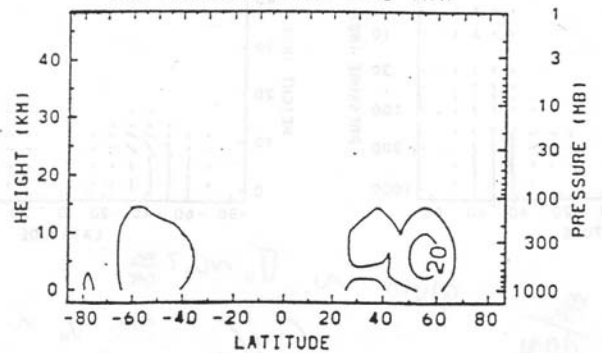
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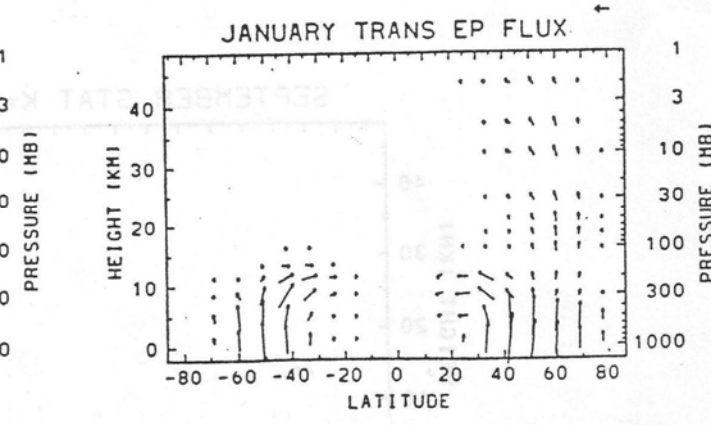
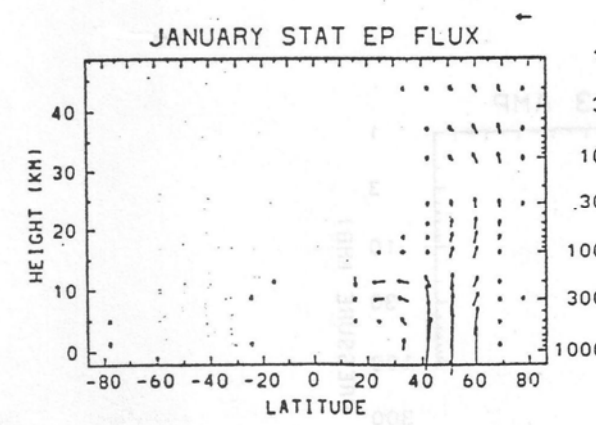
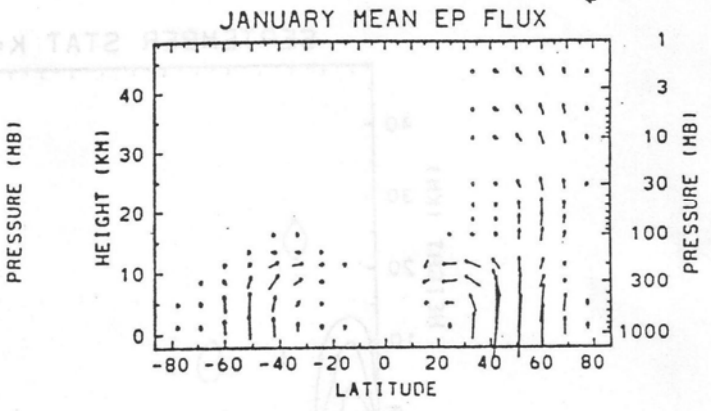
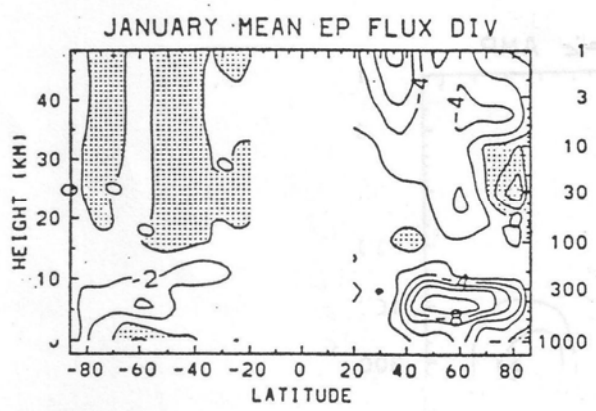
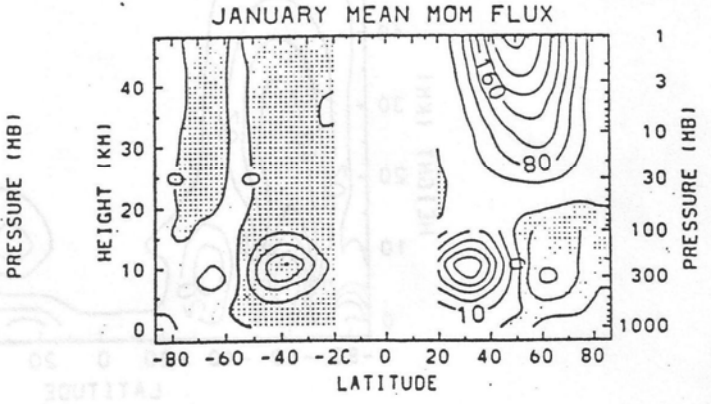
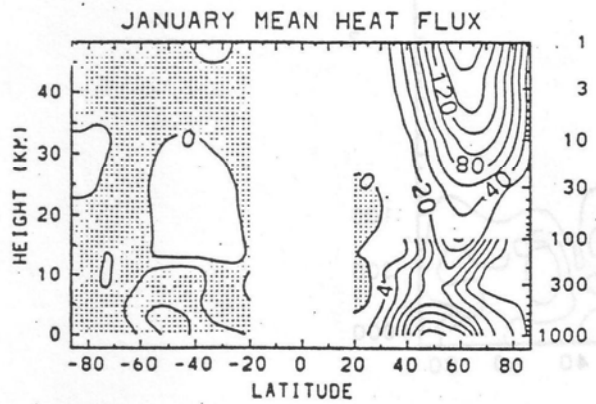


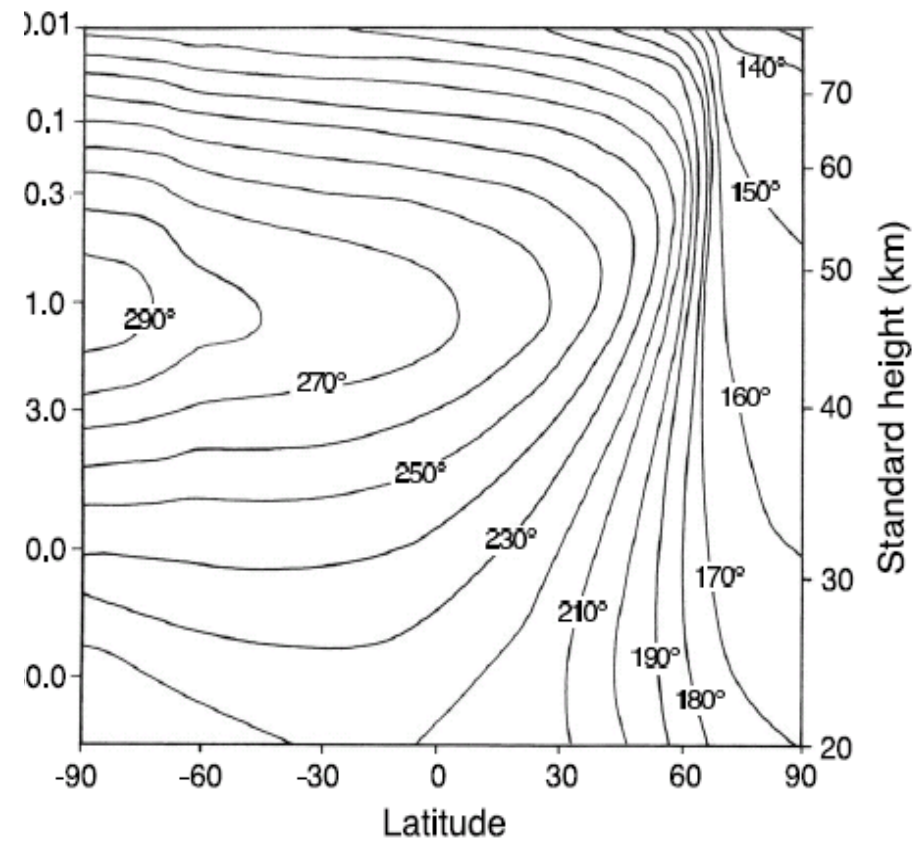
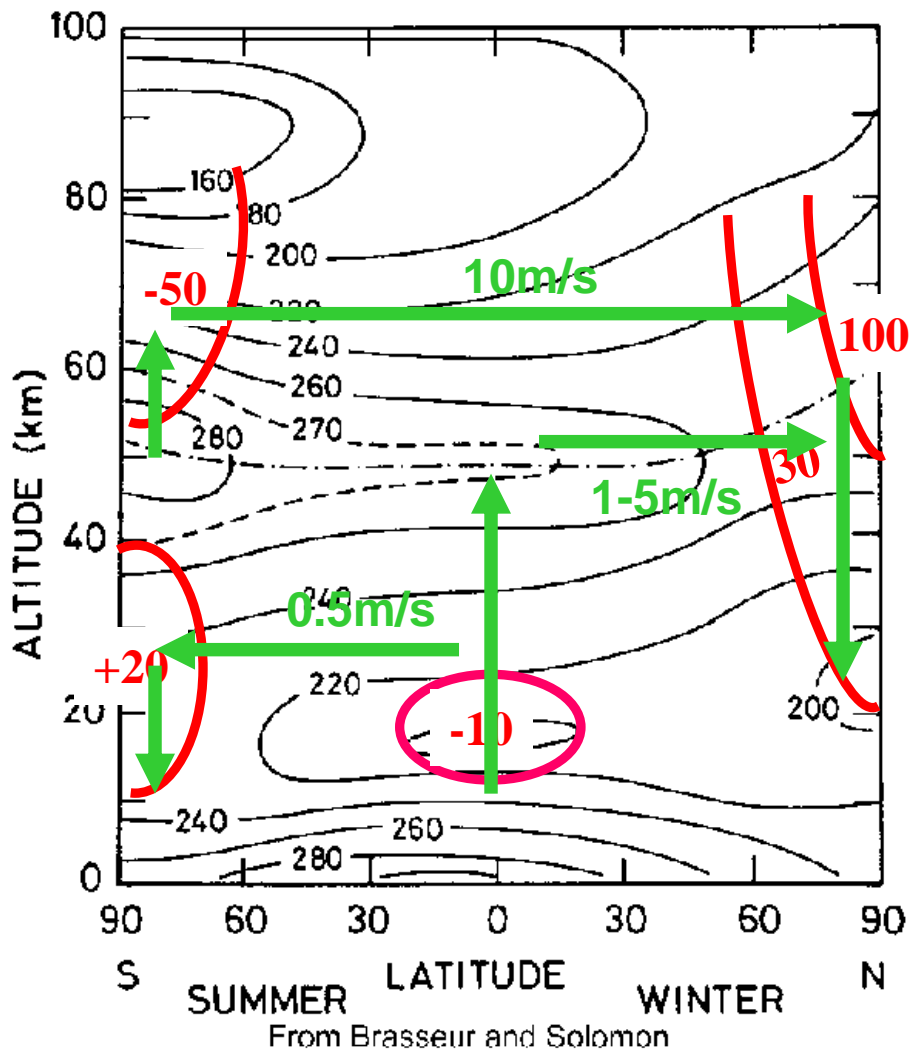
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SEPTEMBER STAT K=3 AMP







From Vallis (2006) Adapted from Fels (1985), with the help of K. Hamilton.

