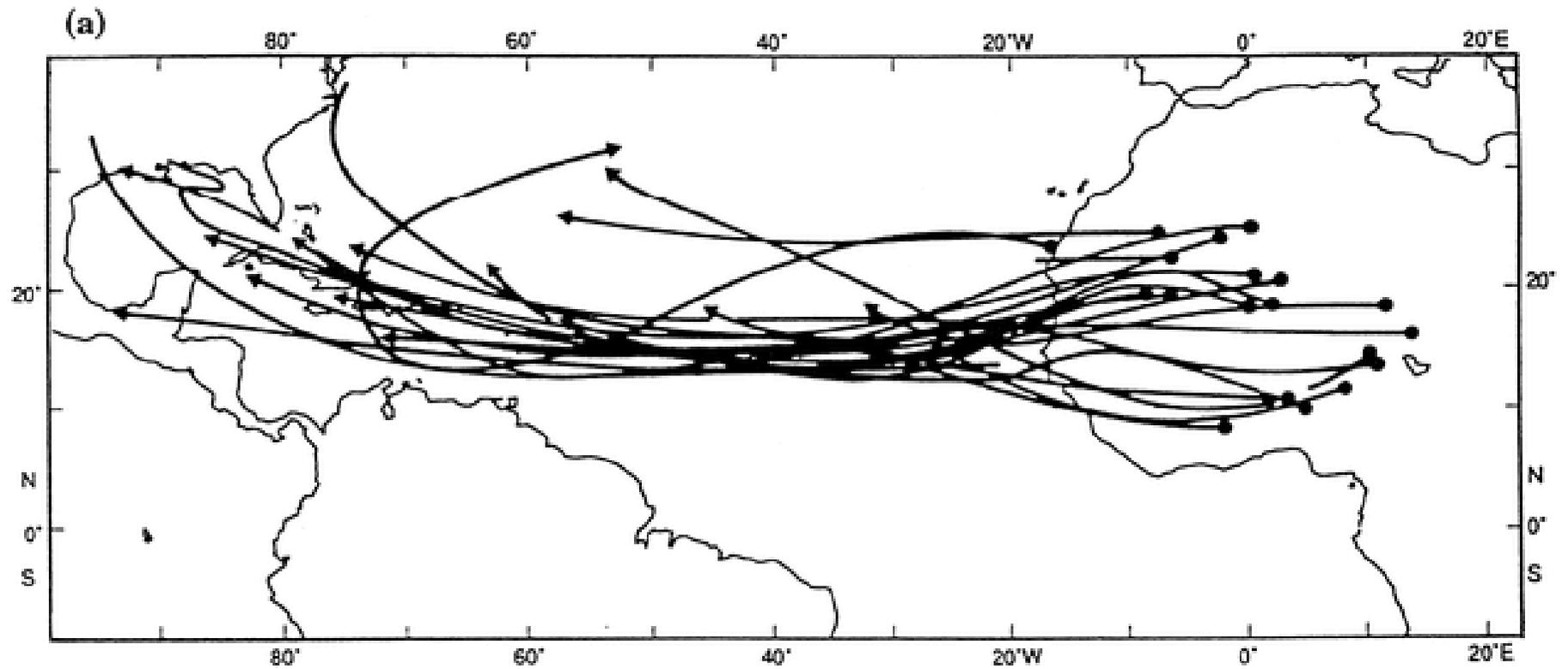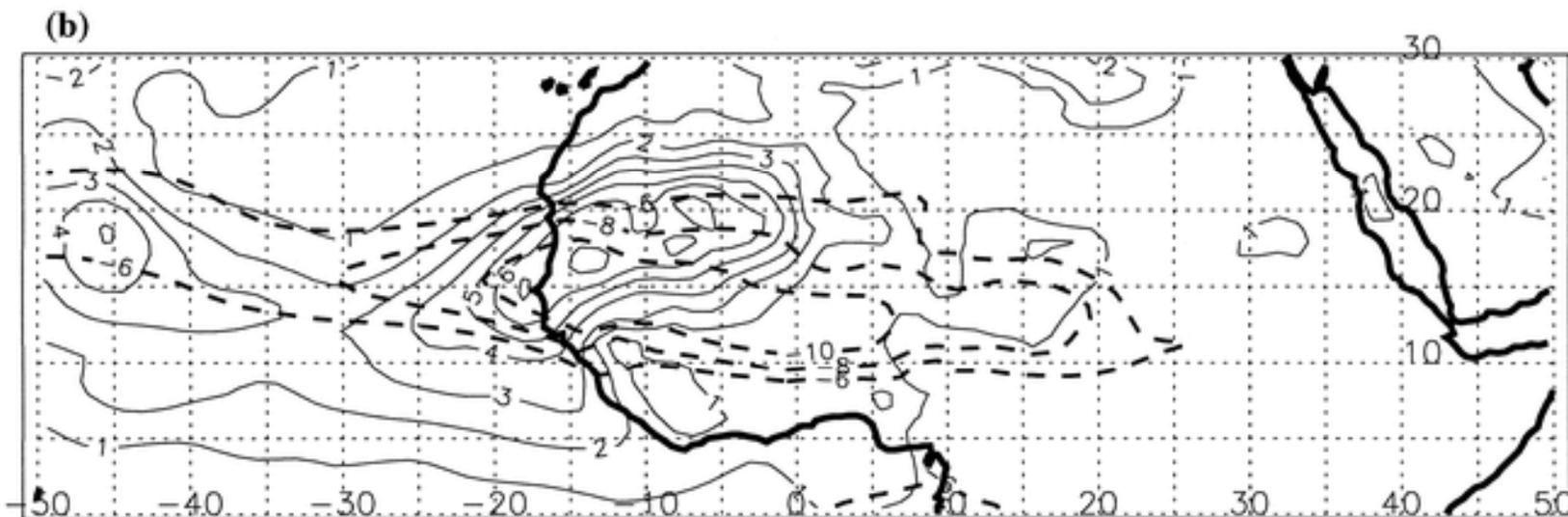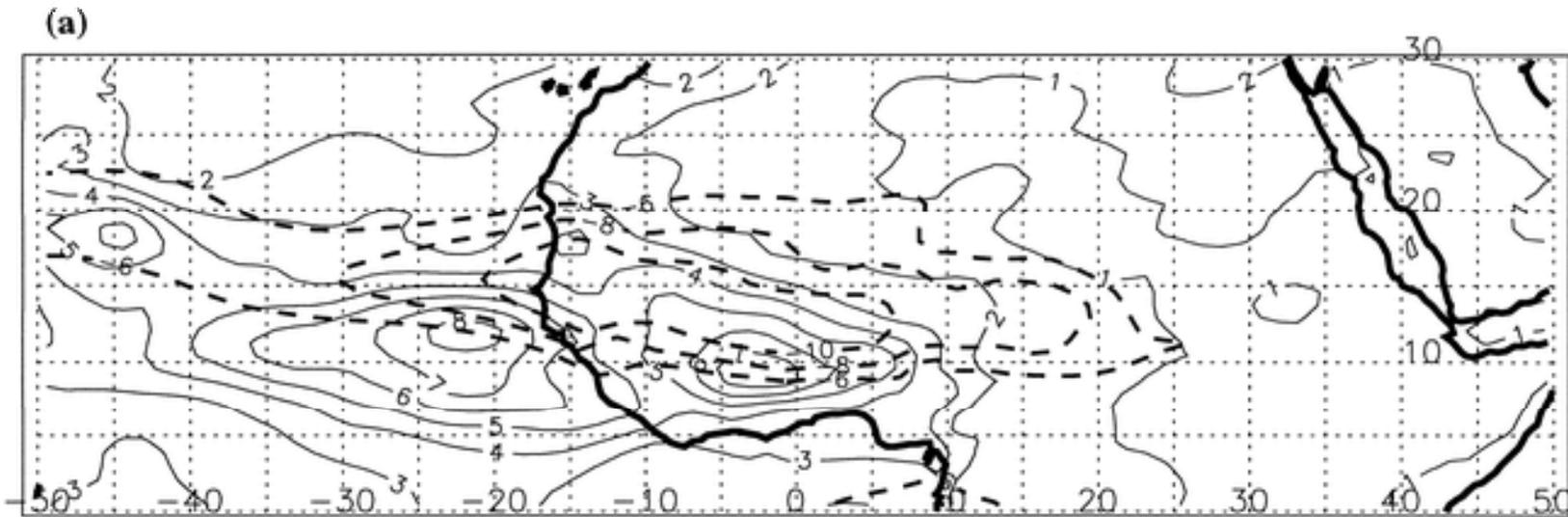Eleven images have been removed due to copyright restrictions. Please see the images in: Riehl, H. "Waves in the easterlies." University of Chicago Misc. Report No. 17, 1948, p. 79.
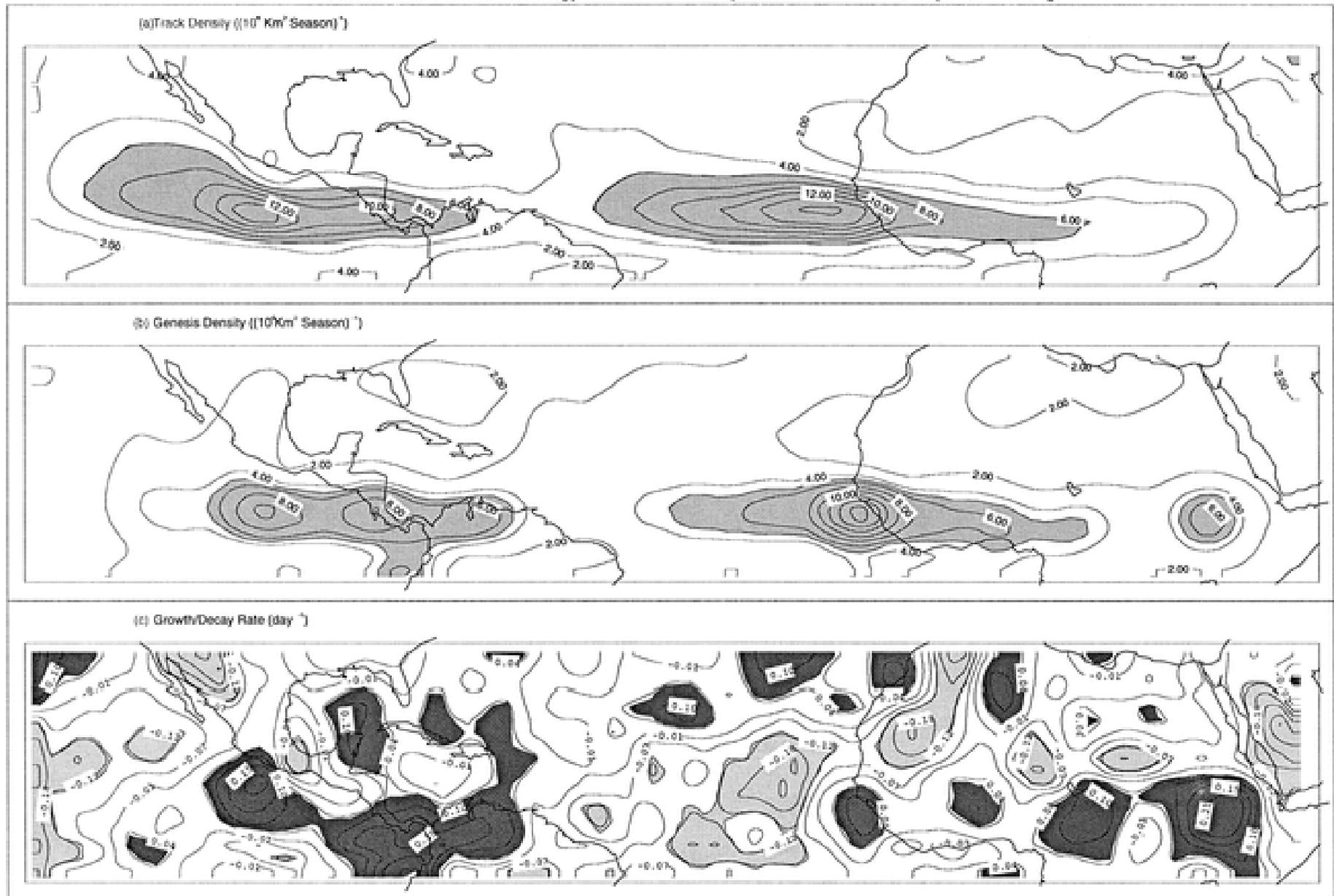
AEW tracks, August-September, 1985

(a)

Pytharoulis and Thorncroft, 1999

Kinetic energy density from Aug-Sept 1995 at 700 hPa (top) and 950 hPa (bottom). (From Pytharoulis and Thorncroft, 1999)
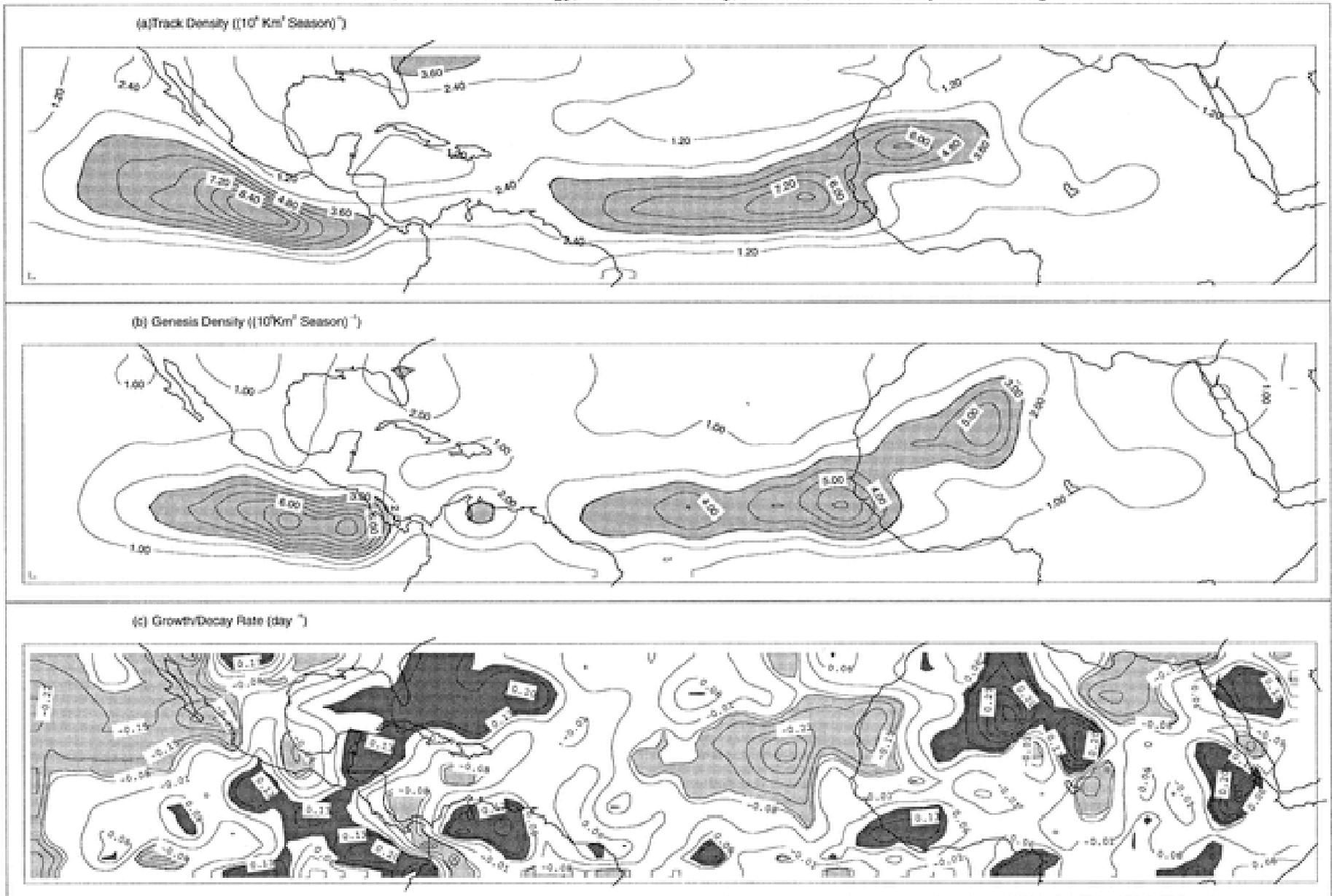
ECMWF, 1979-98, Climatology, MJJASO, Vorticity, 600hPa, +ve, T>=2 days, D>=10 deg.

(a) Track Density ([10^6 Km^2 Season]$^{-1}$)

(b) Genesis Density ([10^{6}Km^2 Season]$^{-1}$)

(c) Growth/Decay Rate (day^{-1})

Thorncroft and Hodges, *J. Climate*, 2001

ECMWF, 1979-98 Climatology, MJJASO, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.

(a) Track Density ((10^6 Km² Season)⁻¹)

(b) Genesis Density ((10^6 Km² Season)⁻¹)

(c) Growth/Decay Rate (day⁻¹)

Thorncroft and Hodges, *J. Climate*, 2001
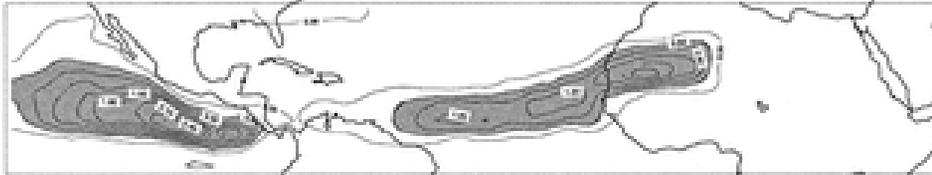
5

850 hPa vorticity. Thorncroft and Hodges, *J. Climate*, 2001

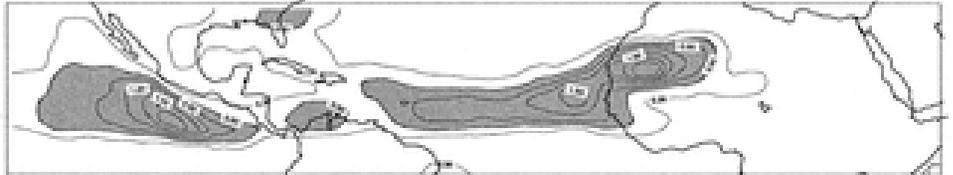ECMWF, May, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.
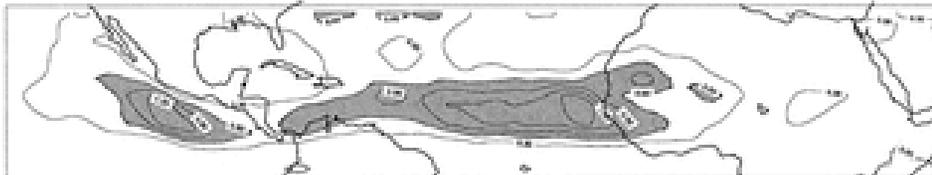
ECMWF, June, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.
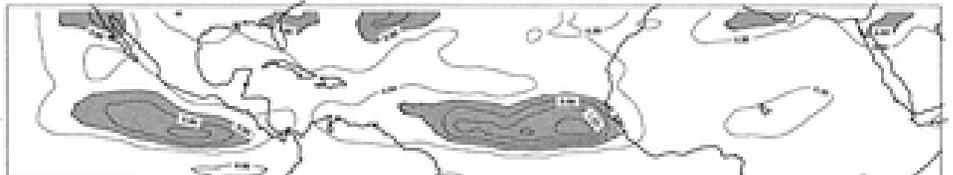
ECMWF, July, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.

ECMWF, August, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.

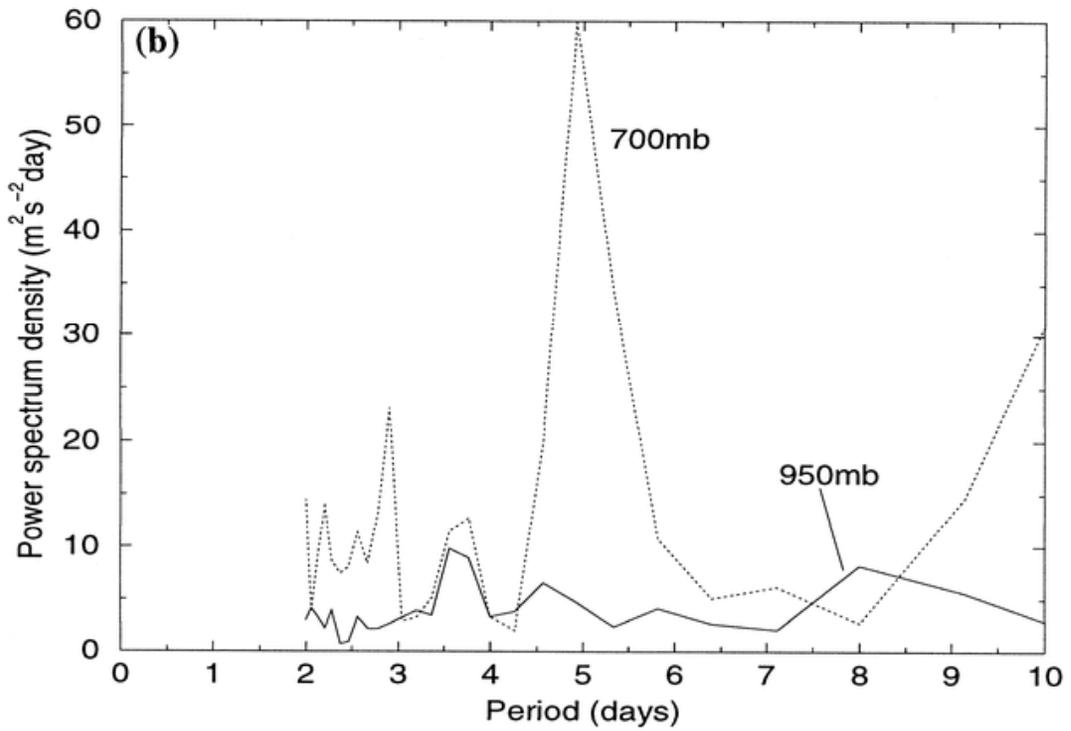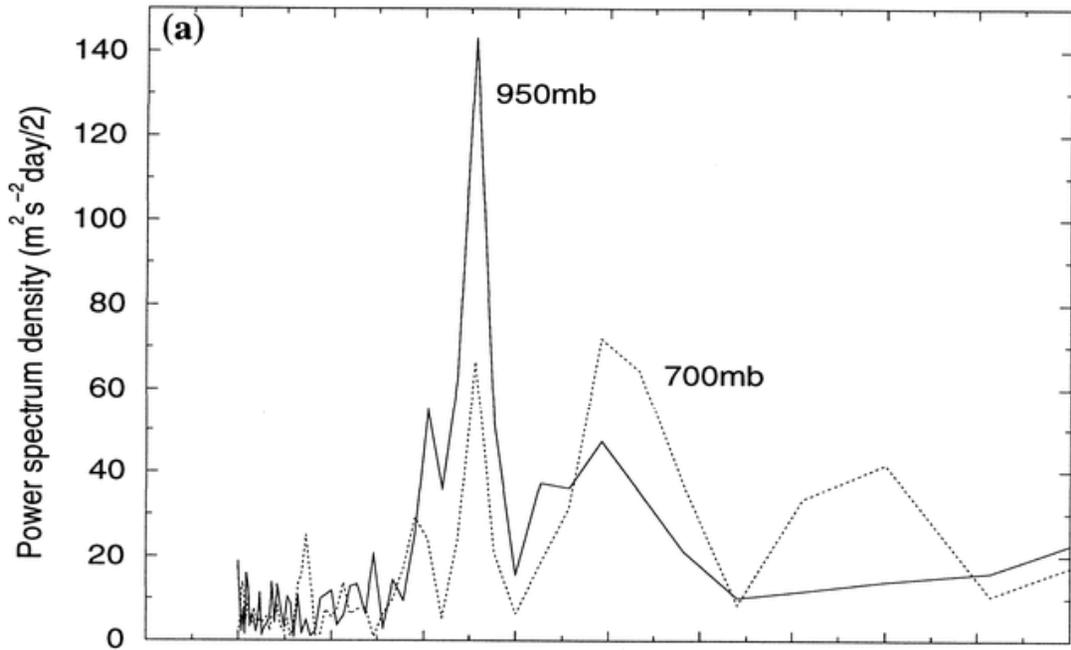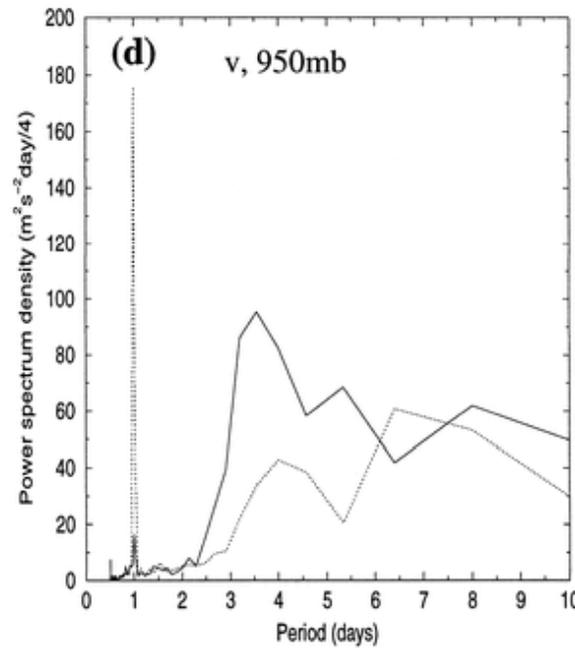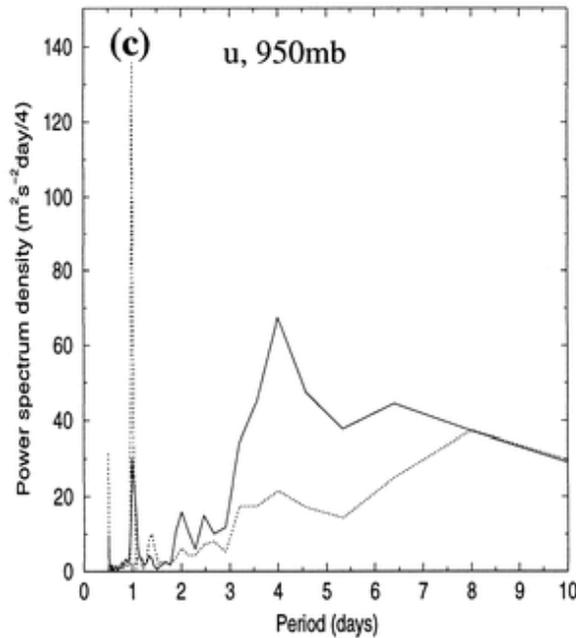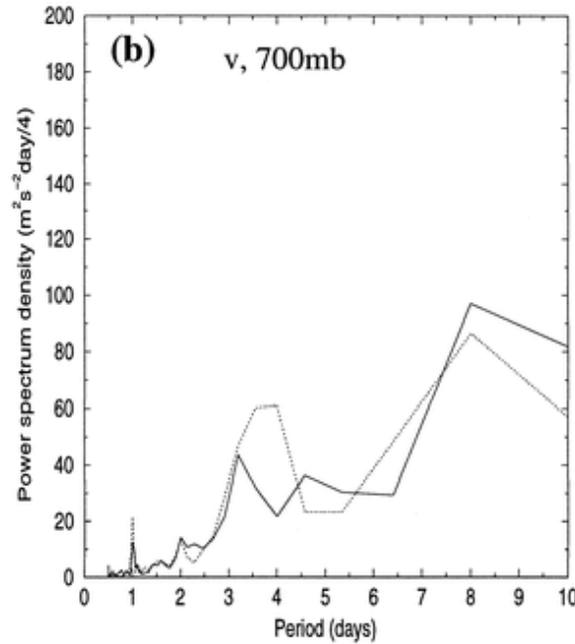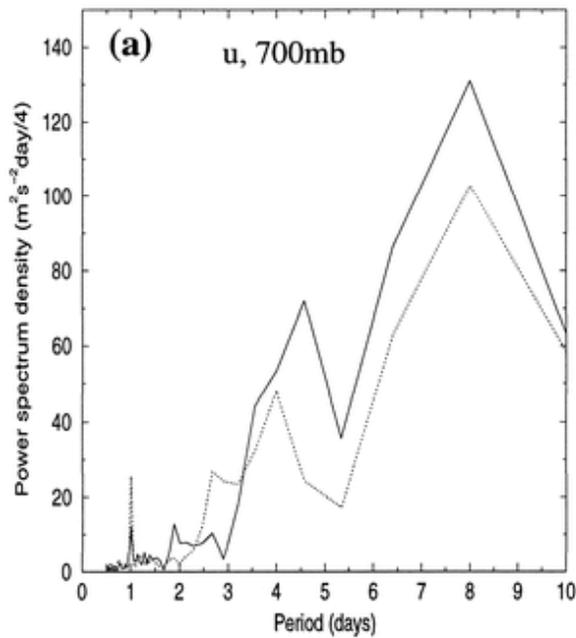ECMWF, September, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.

ECMWF, October, 1979-98, Vorticity, 850hPa, +ve, T>=2 days, D>=10 deg.

Power spectra of *v* at Dakar (top) and Bamako (bottom) from May to October 1995. From Pytharoulis and Thorncroft, 1999
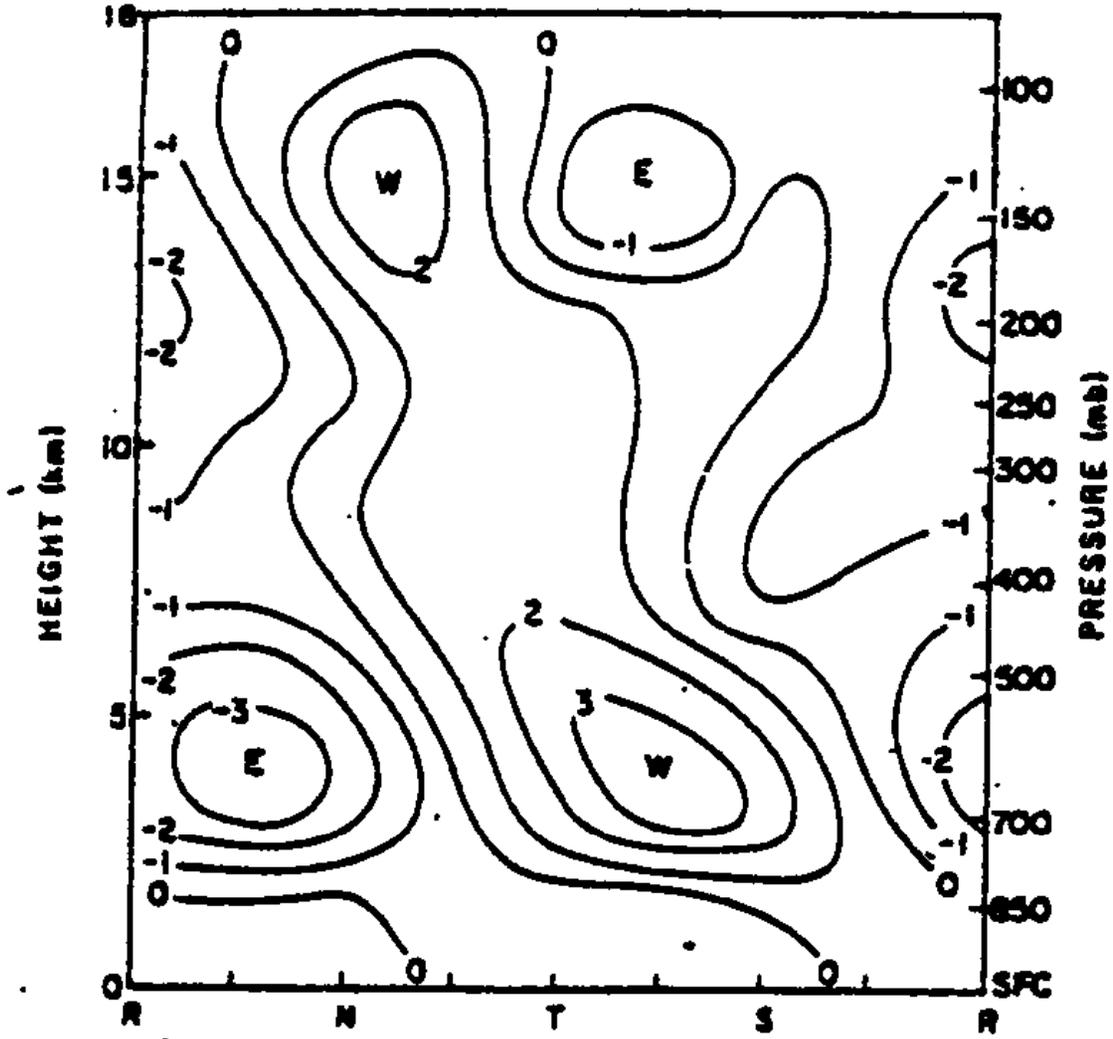
Power spectral density at 14.6 N 16.9 W (solid and 12 N, 16.9 W (dashed), from UKMO analysis data. Pytharoulis and Thorncroft, 1999

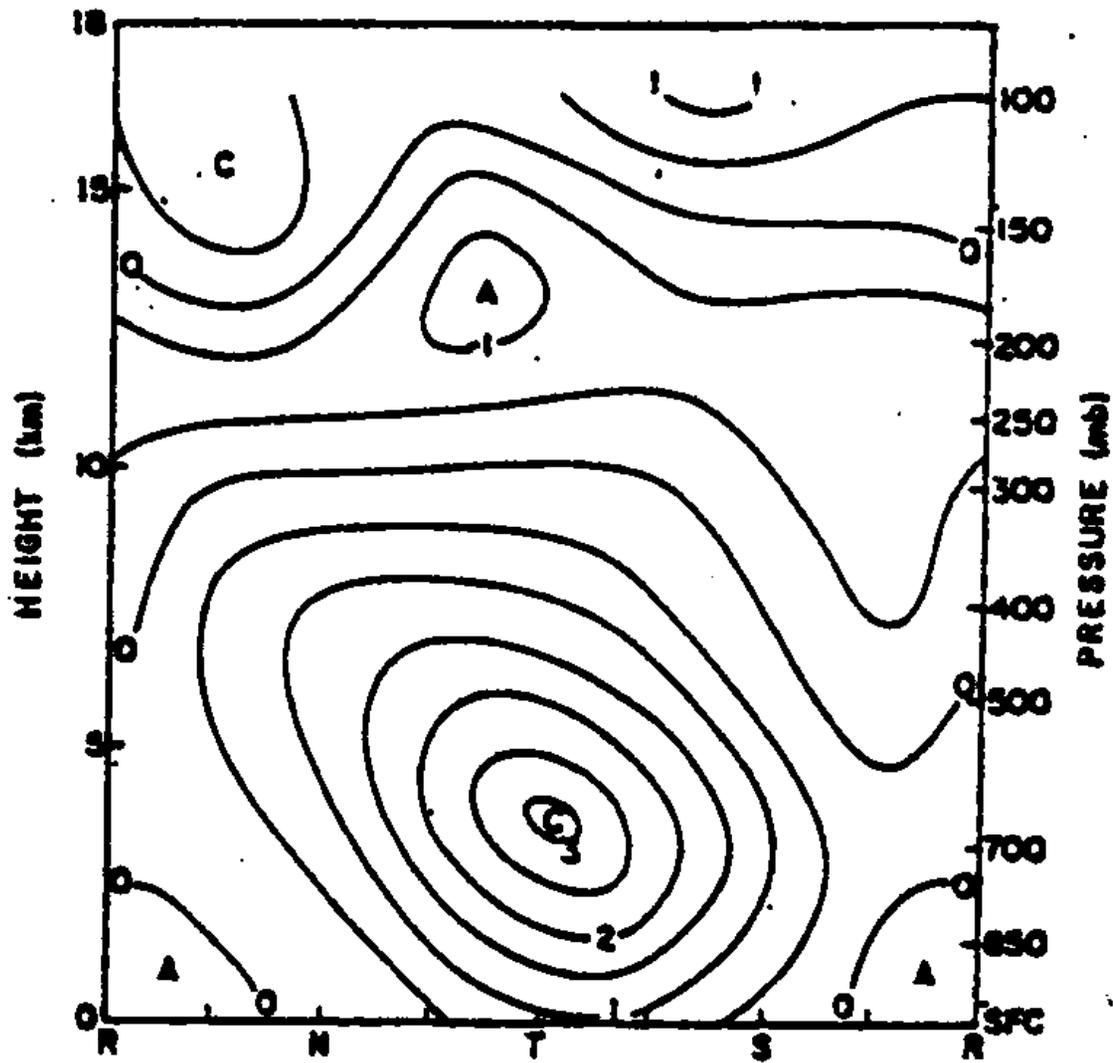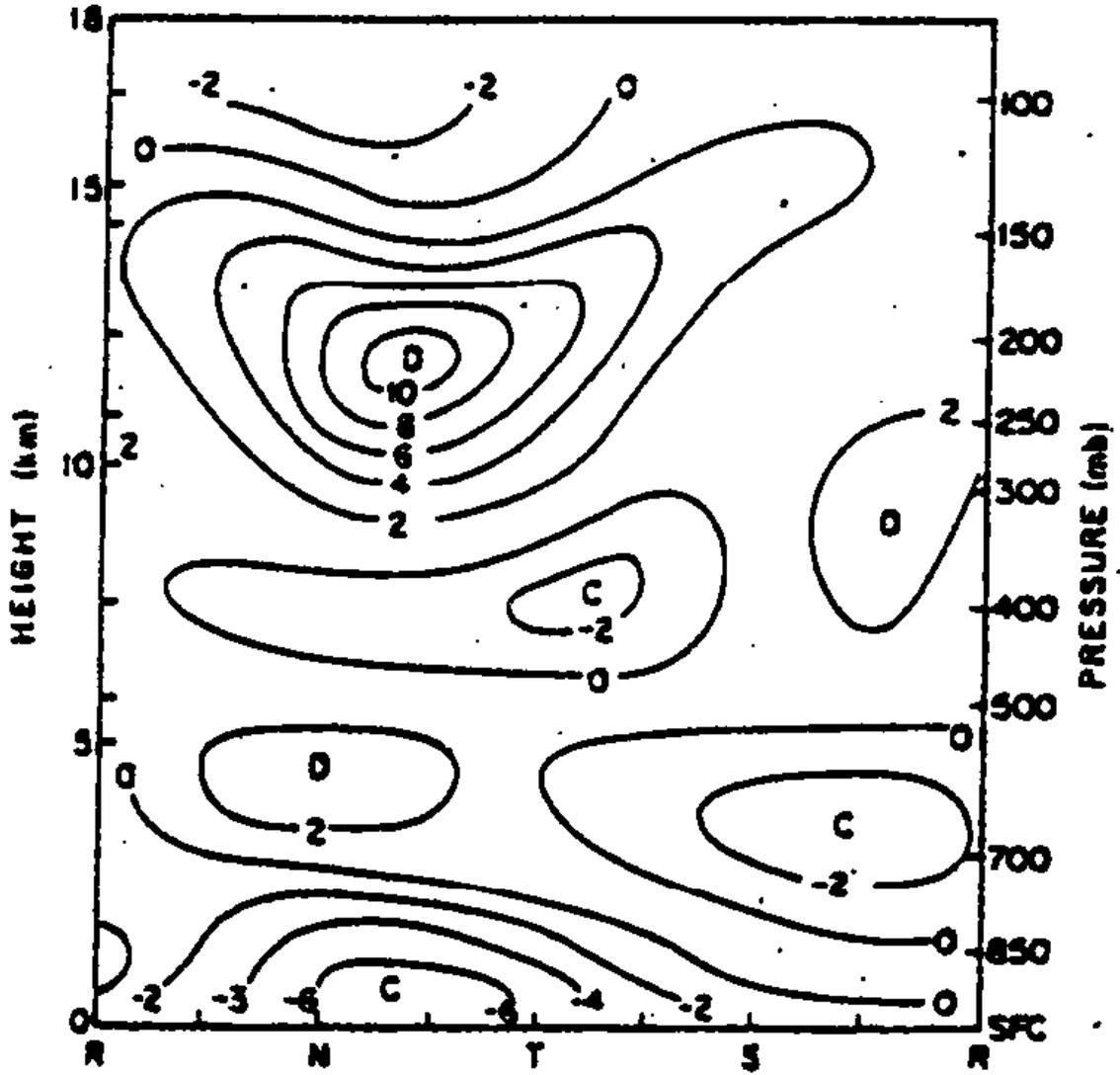# Composites from Reed et al., 1977, *Mon. Wea. Rev.*

(a)

(b)

U
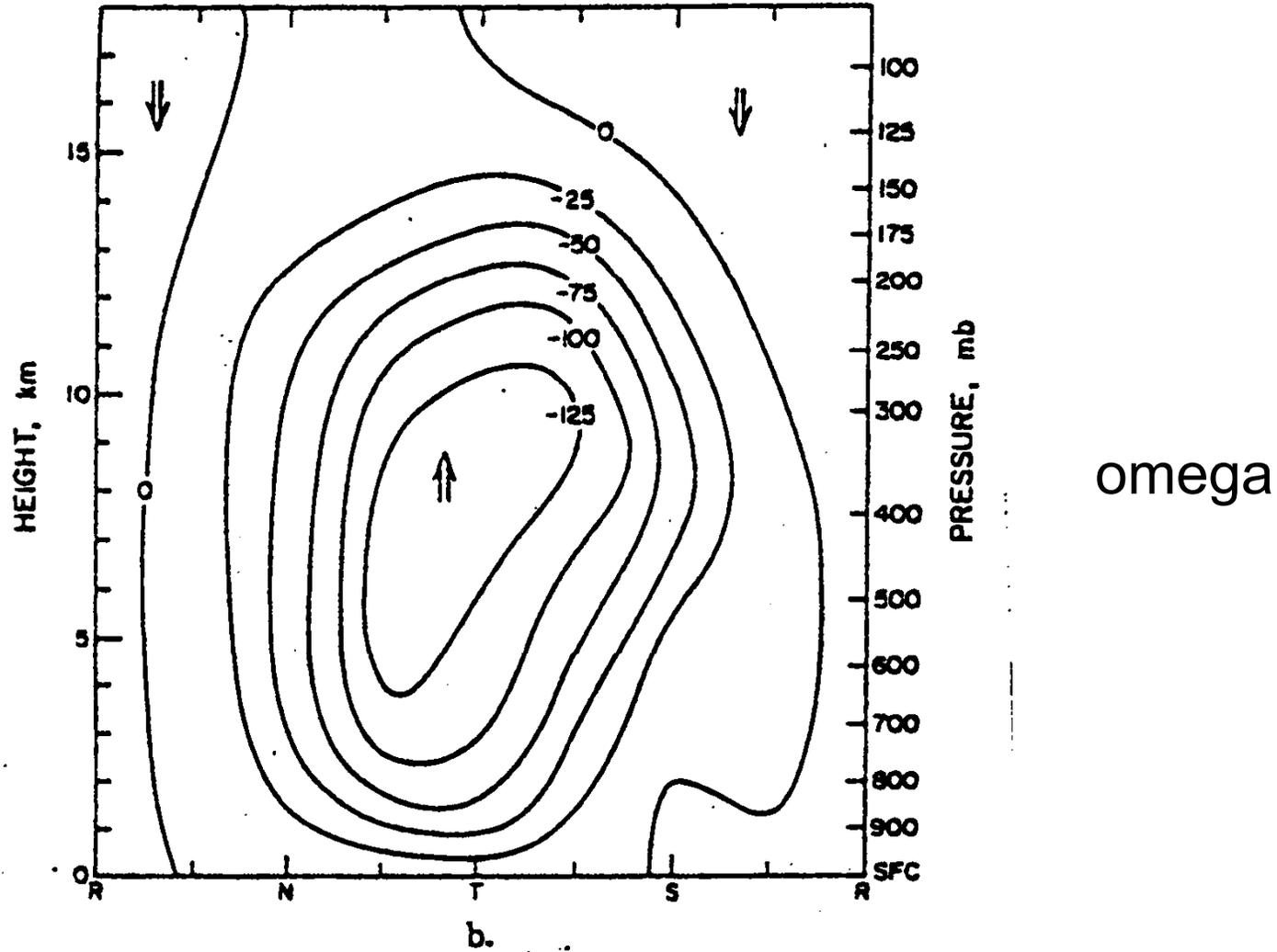
vorticity

(c)

11

divergence

(d)

omega
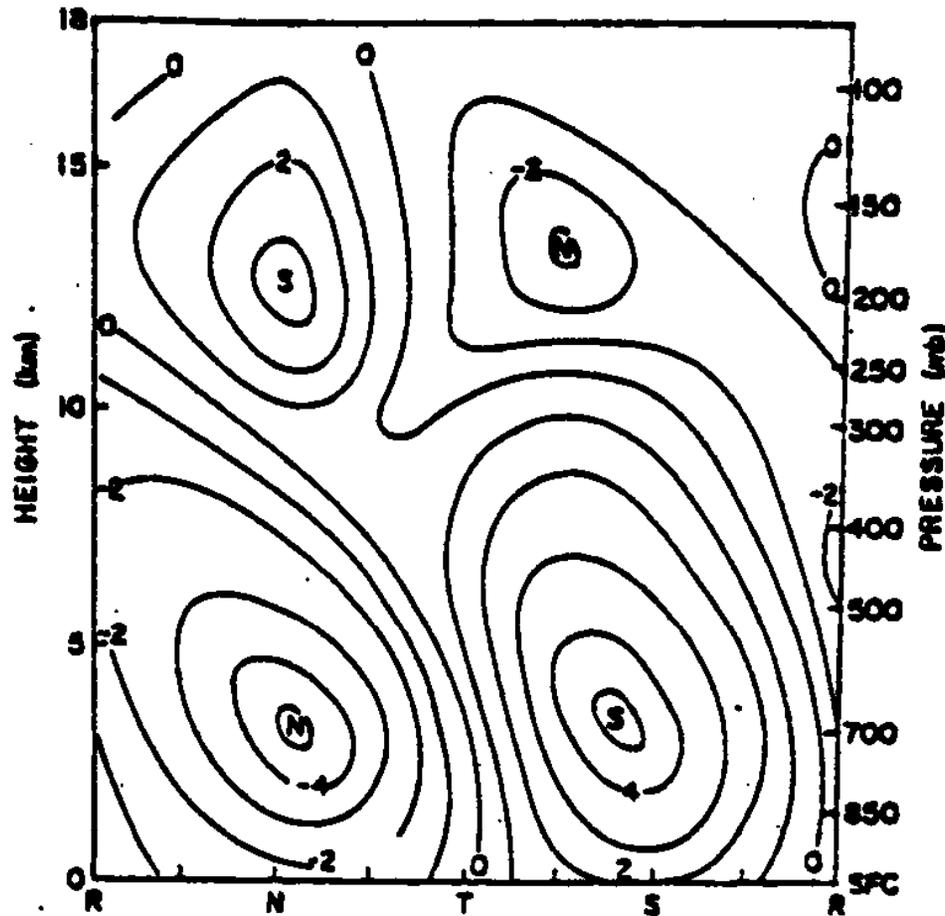
FIG. 8. Composite of horizontal velocity divergence (10^{-6} sec^{-1}) for KEP, a., and corresponding vertical p velocity (10^{-5} mb sec^{-1}), b. (Analyzed values give approximate displacement in millbars per day.) See Fig. 4 for further explanation.

Meteosat brightness temperature averaged over June-October, 1984-1995. From Thorncroft and Hodges, *J. Climate*, 2001
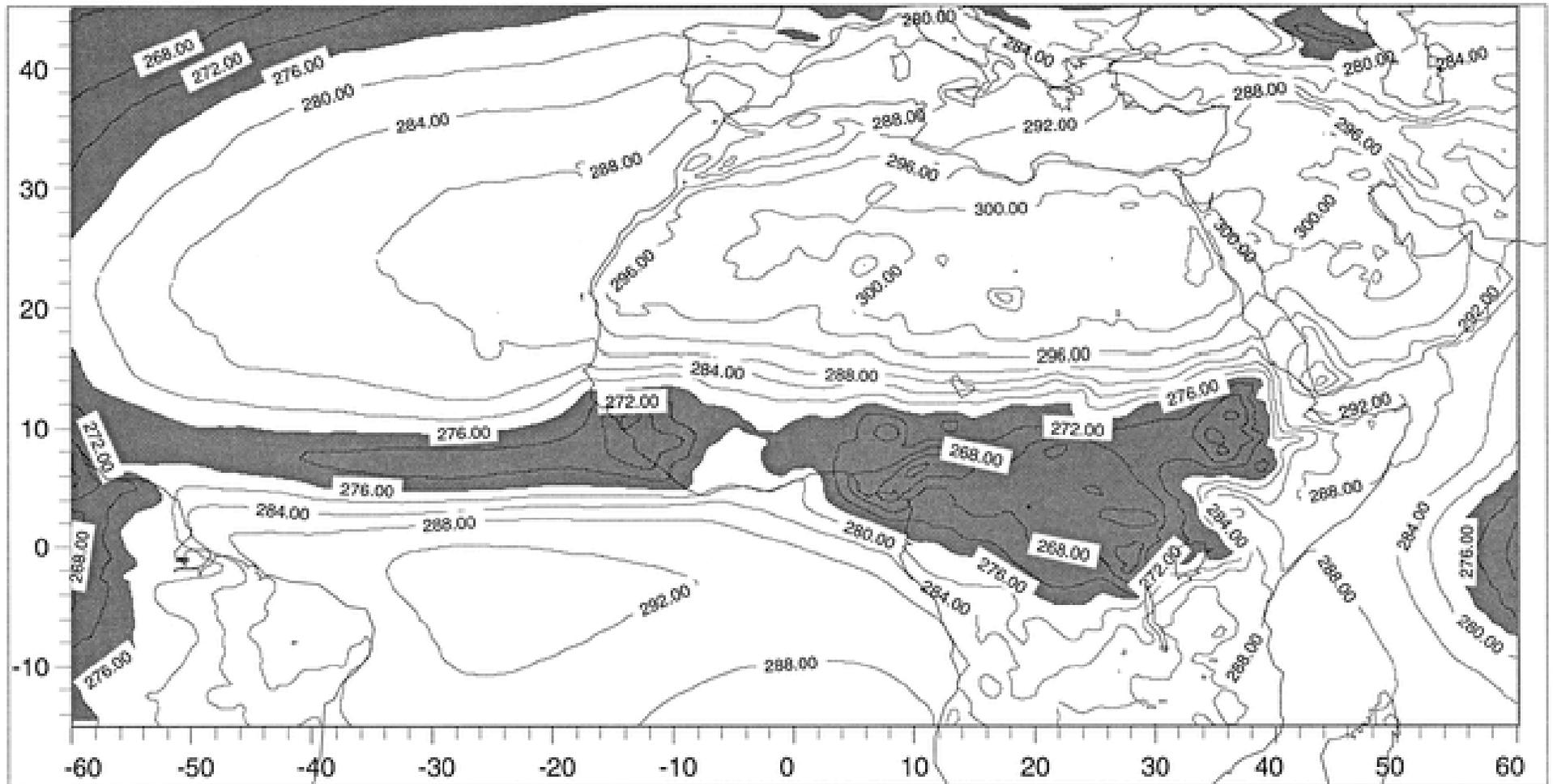
12.811 Tropical Meteorology

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