

## ORDINARY CELLS

- short-lived (30-60 min)
- move with the mean wind

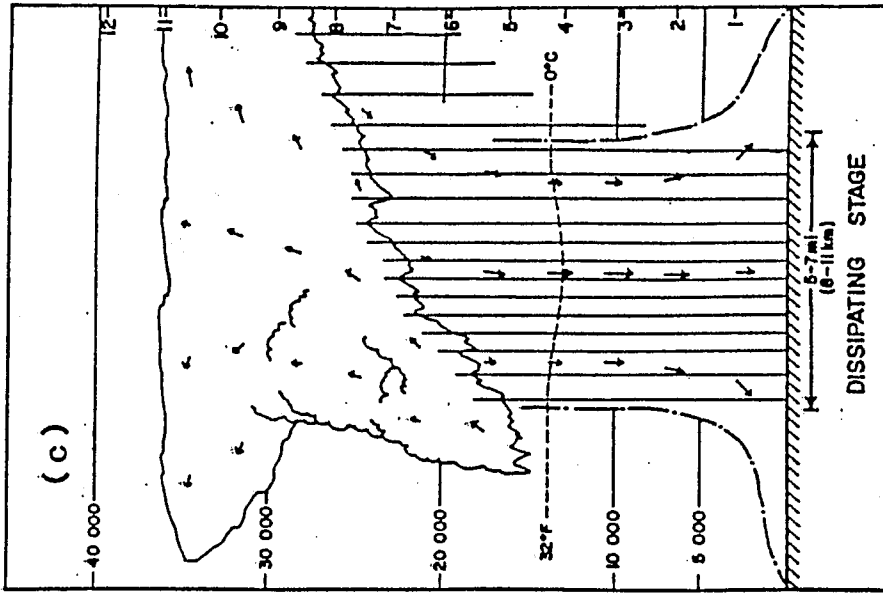
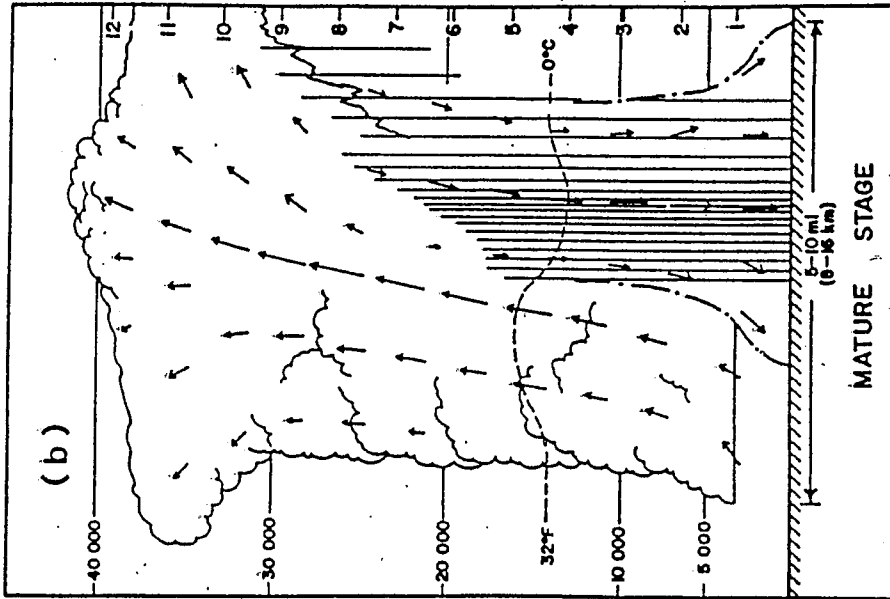
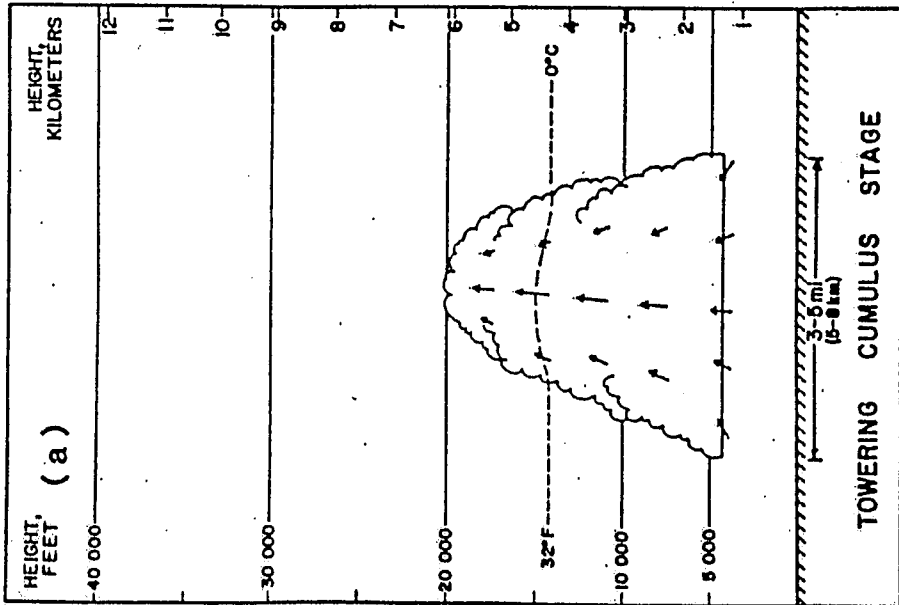
## MULTICELLS

- group of ordinary cells
- cells move with the mean wind
- system propagates discretely, with new cell growth often on a preferred flank

## SUPERCELLS

- quasi-steady (often > 2 h)
- rotational updraft
- continuous motion to right (left) of mean wind
- BWER, hook echo?, tornado?, large hail

bounded  
weak  
echo  
region



Ordinary Cells

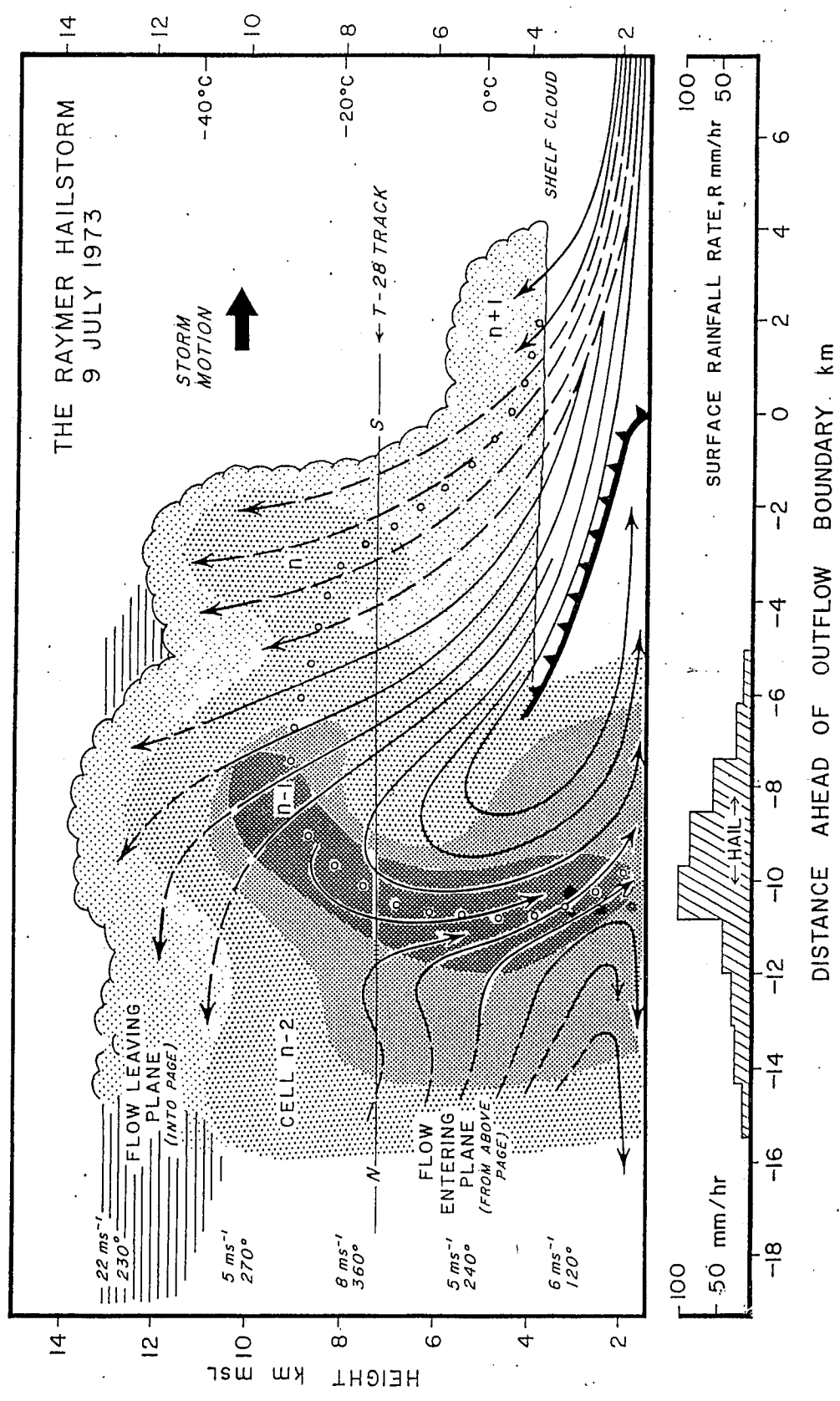
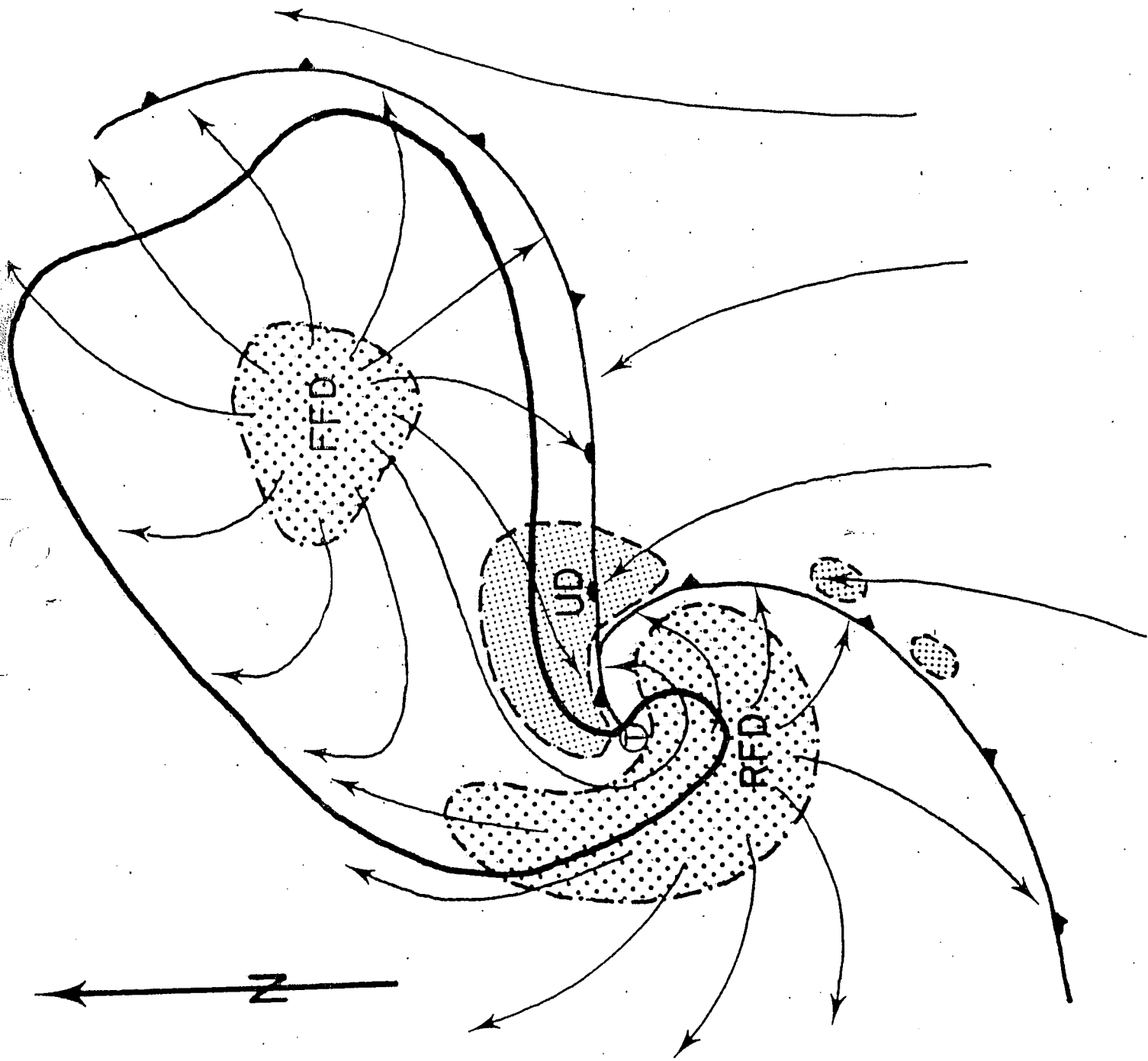
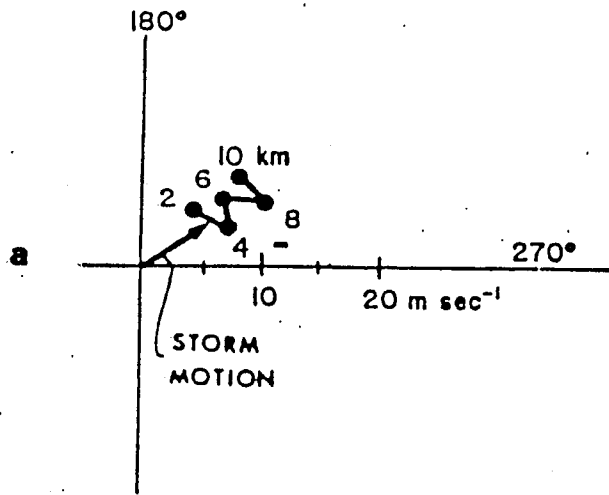


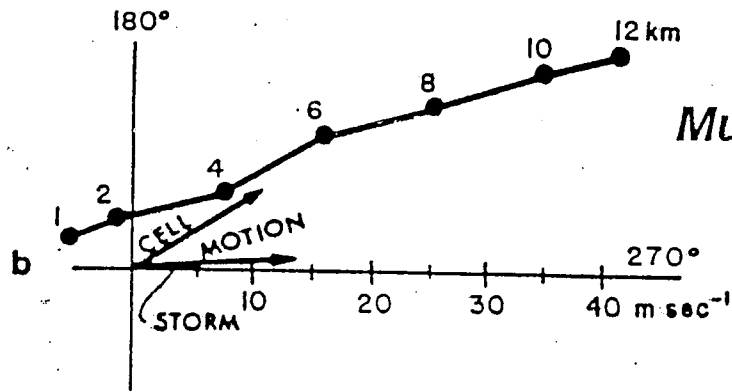
Figure 15.2  
Multiple cells



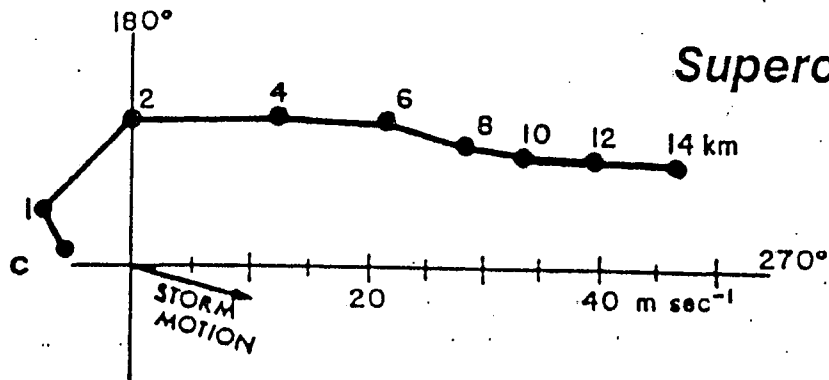
Chisholm and Renick (1972)



**Ordinary Cells**



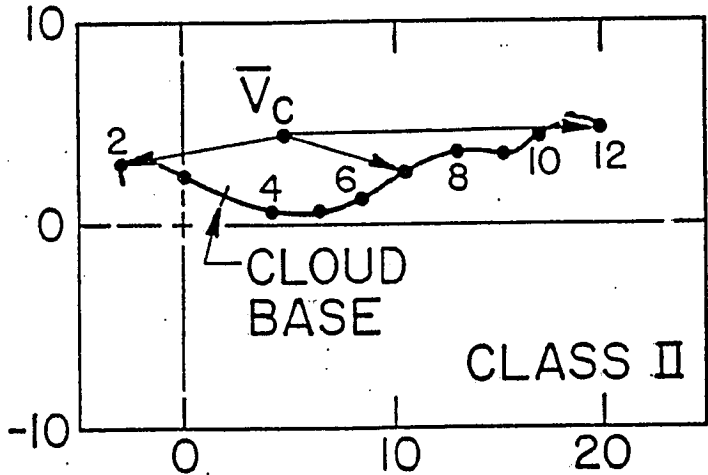
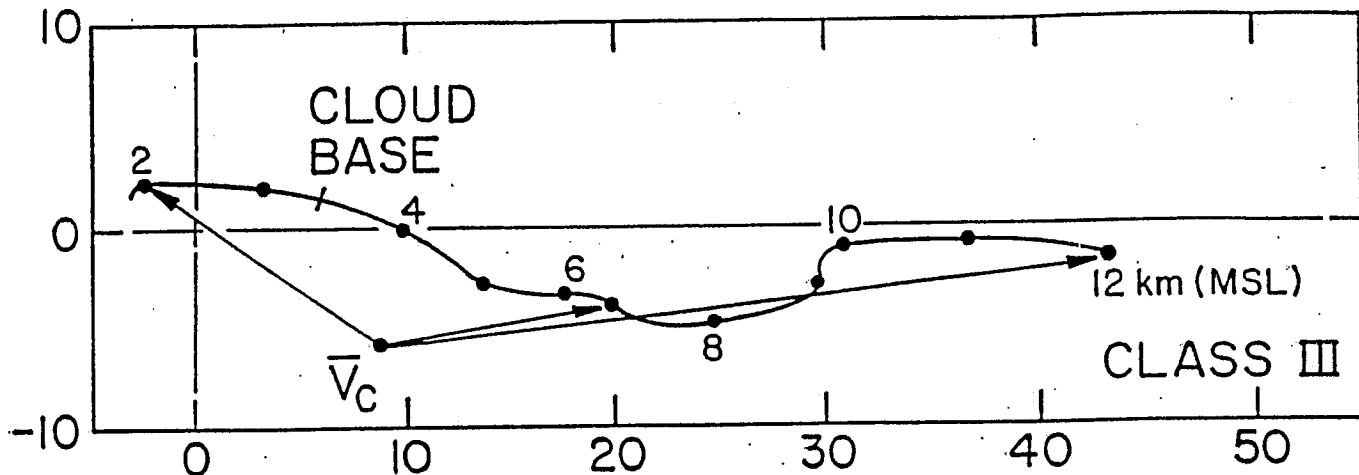
**Multicells**



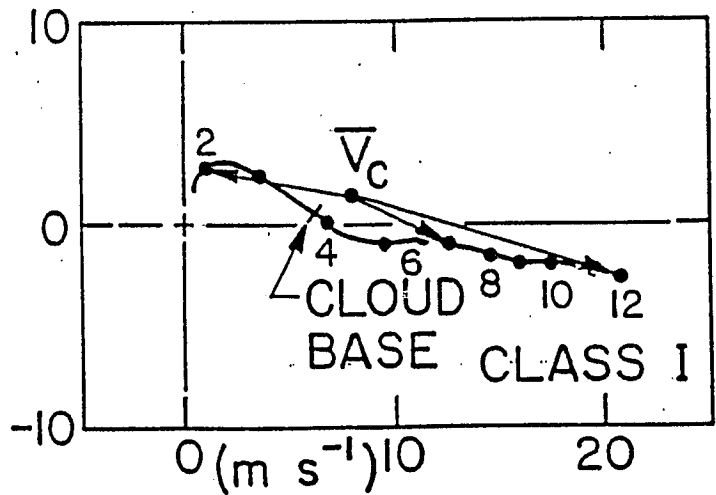
**Supercells**

Fankhauser and Mohr (1977)

Long-lived cells



Multicells



Ordinary Cells

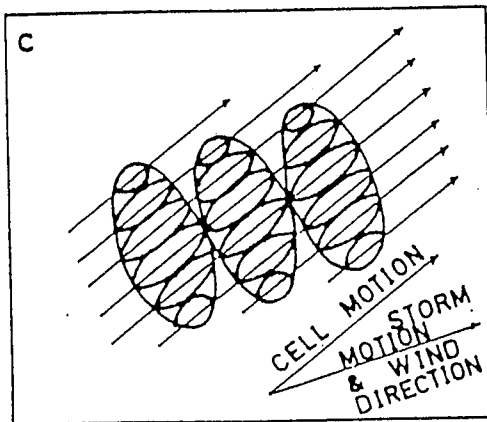
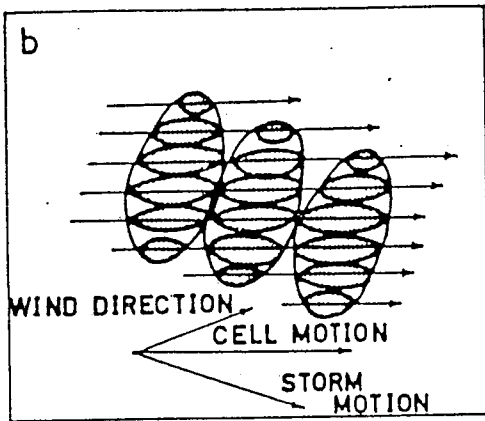
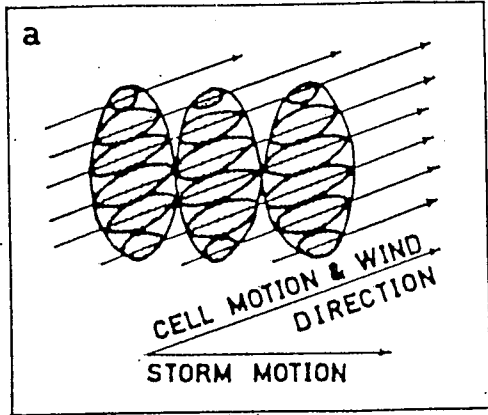
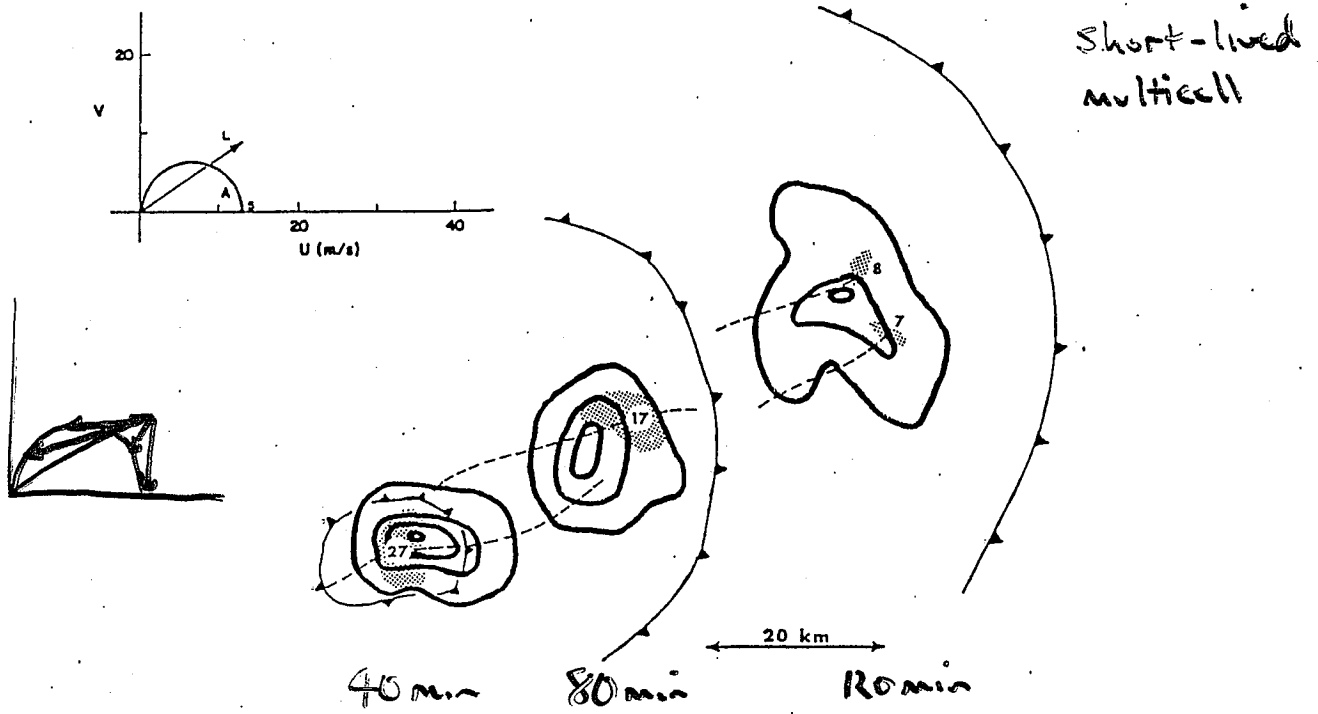


Figure 15.3

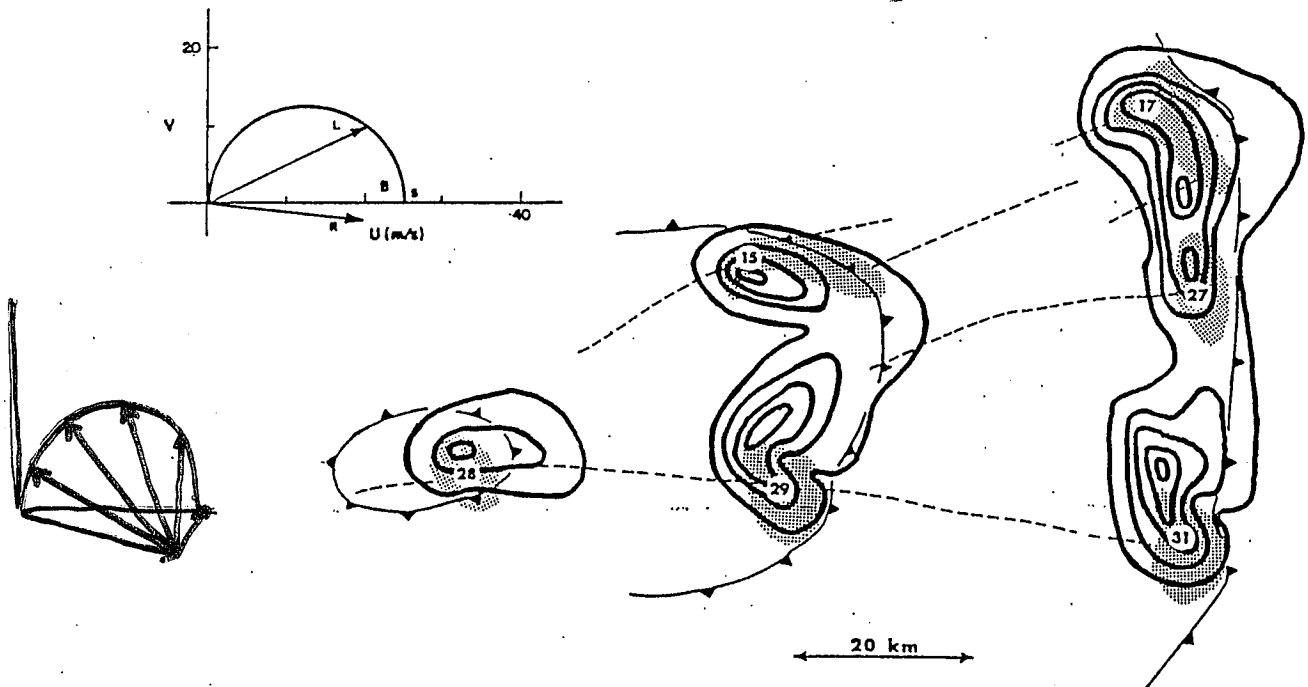
Movement of multiple cells

(a)  $R=89$



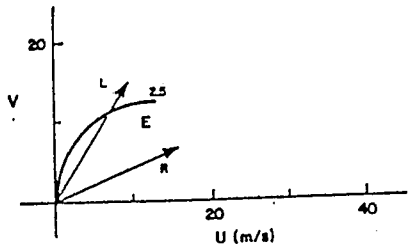
(b)  $R=22$

Supercell on South end of multicellular line

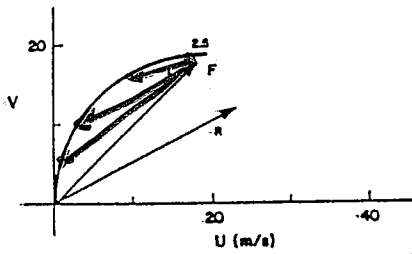
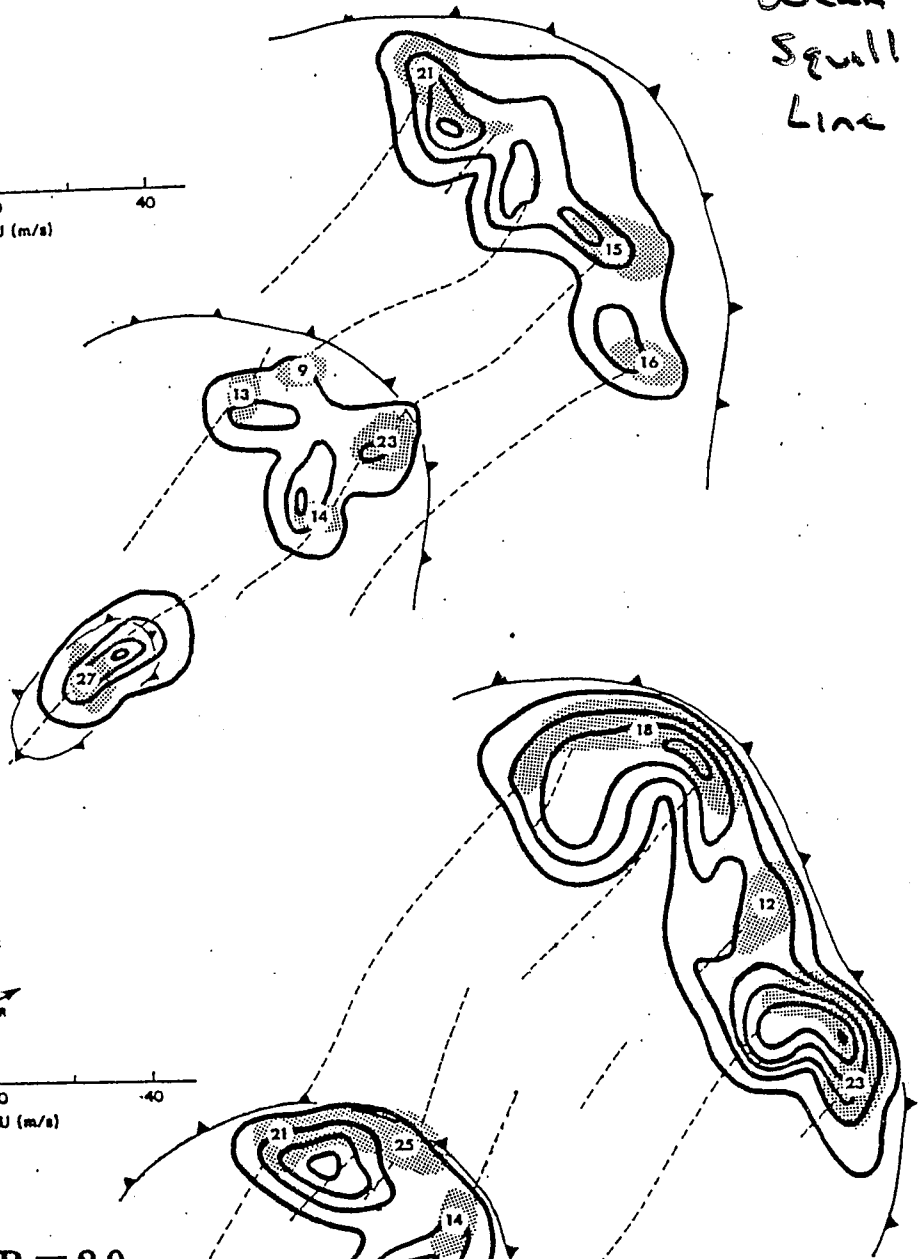




(e)  $R=34$

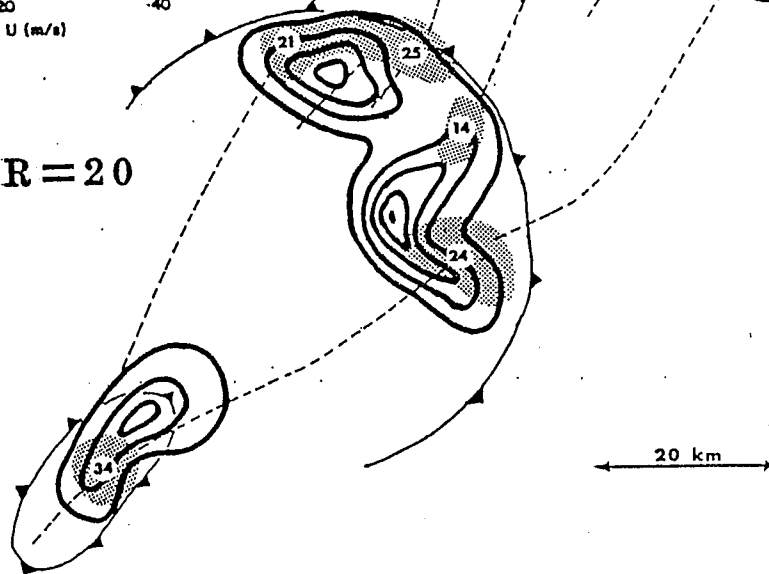


Weak  
Squall  
Line



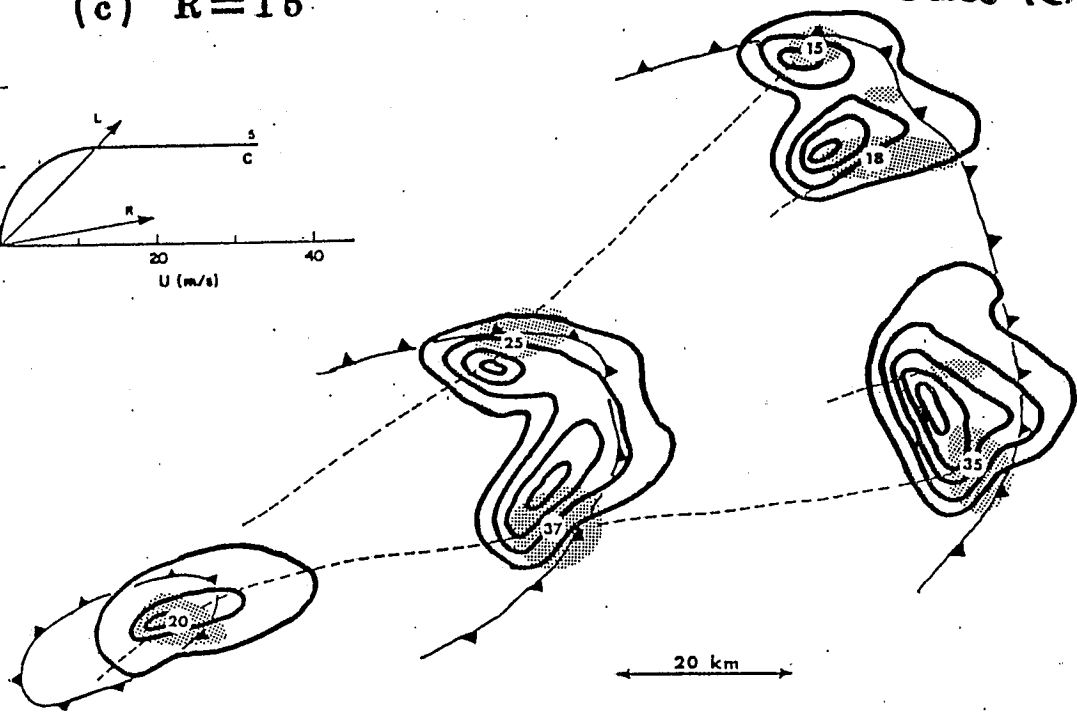
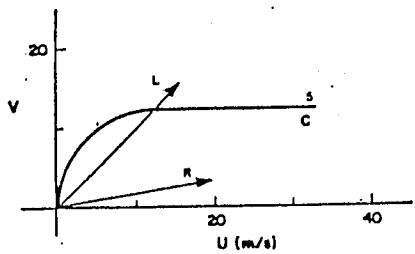
(f)  $R=20$

Squall  
Line



Right-Flank Supercell Split from  
Wester-left Flank  
S form

(c)  $R=15$



(d)  $R=14$

Right Flank Supercell

