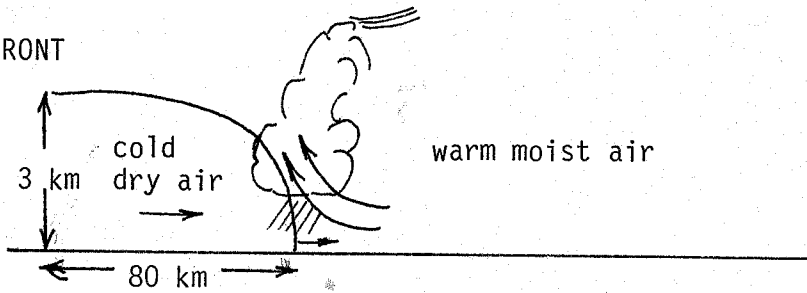


FRONTS

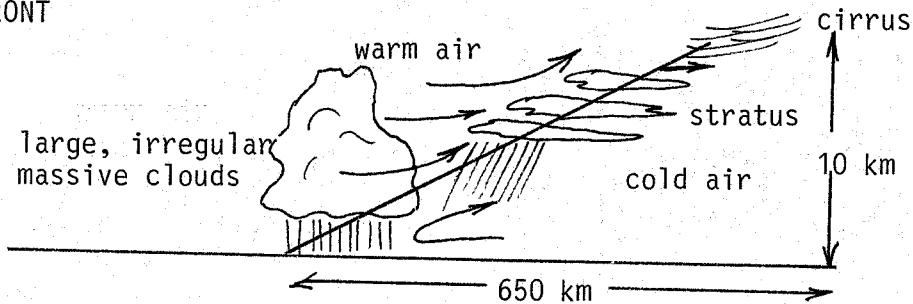
COLD FRONT



warm air pushed aloft above cold
moves at 30-65 km/hr

high intensity of precipitation
over small area for short time
(squall line)

WARM FRONT

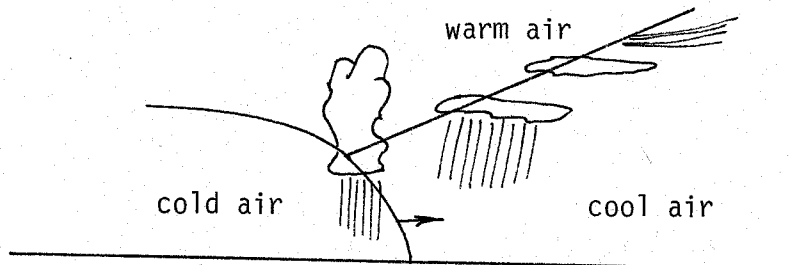


warm air slides up
over cold

moves at 25-40 km/hr

rain is of long duration,
light to moderate intensity,
can cover a large area

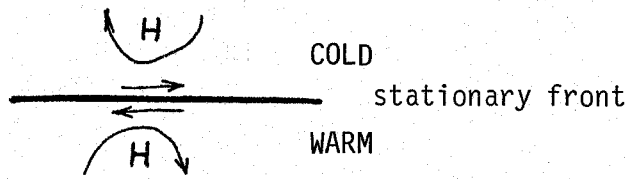
OCCLUDED FRONT



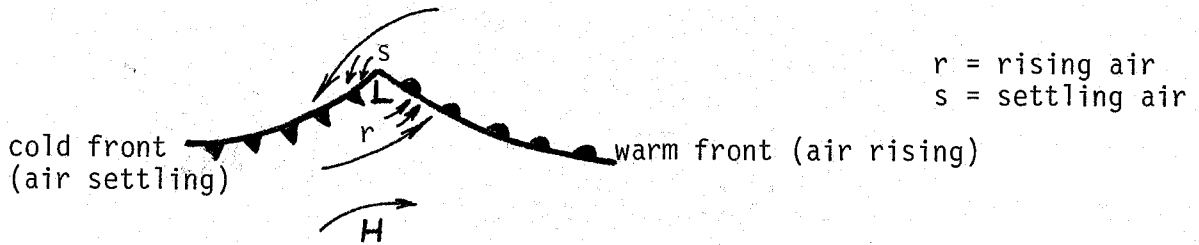
warm front has been
pushed aloft by faster-
moving cold front

DEVELOPMENT OF A WAVE CYCLONE

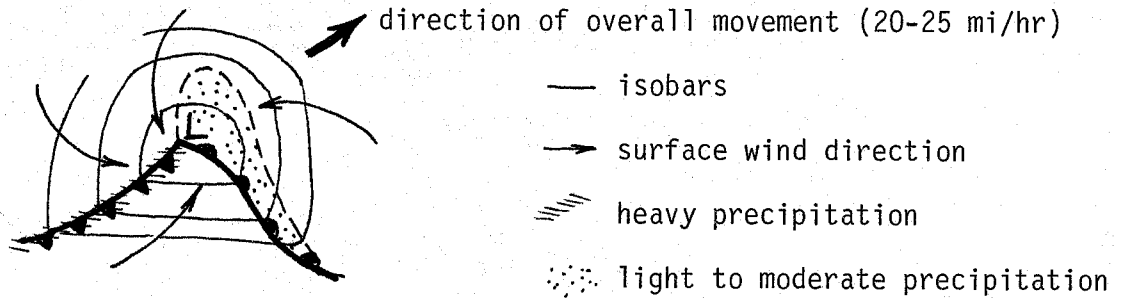
1. FRONT



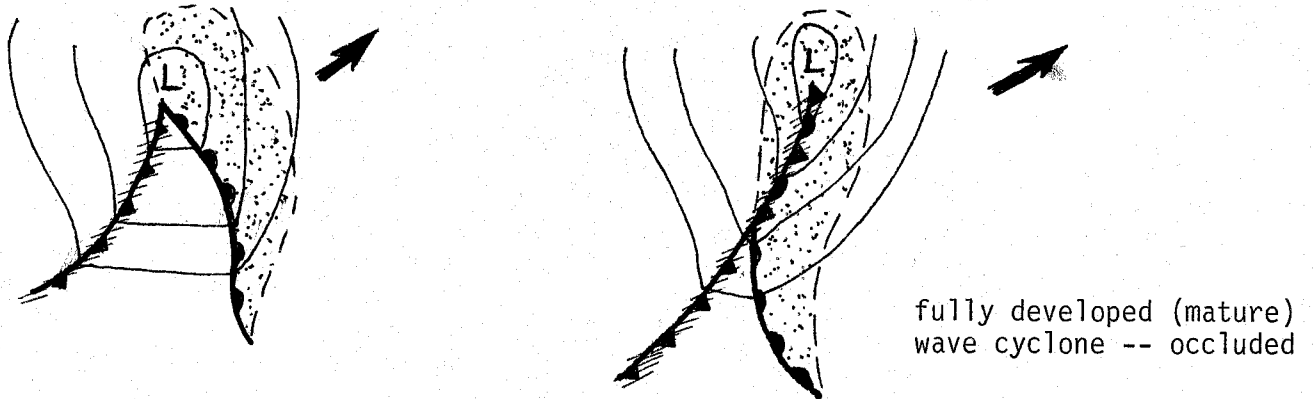
2. SMALL DISTURBANCE CAUSES BEND IN FRONT



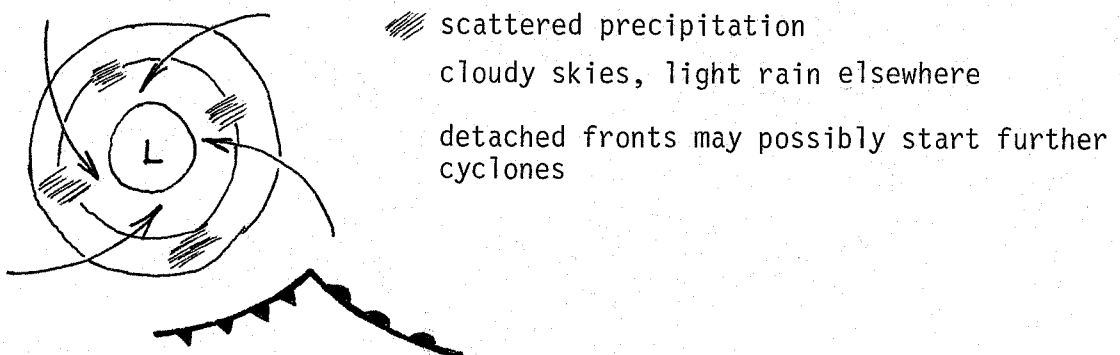
3. WAVE CYCLONE DEVELOPS



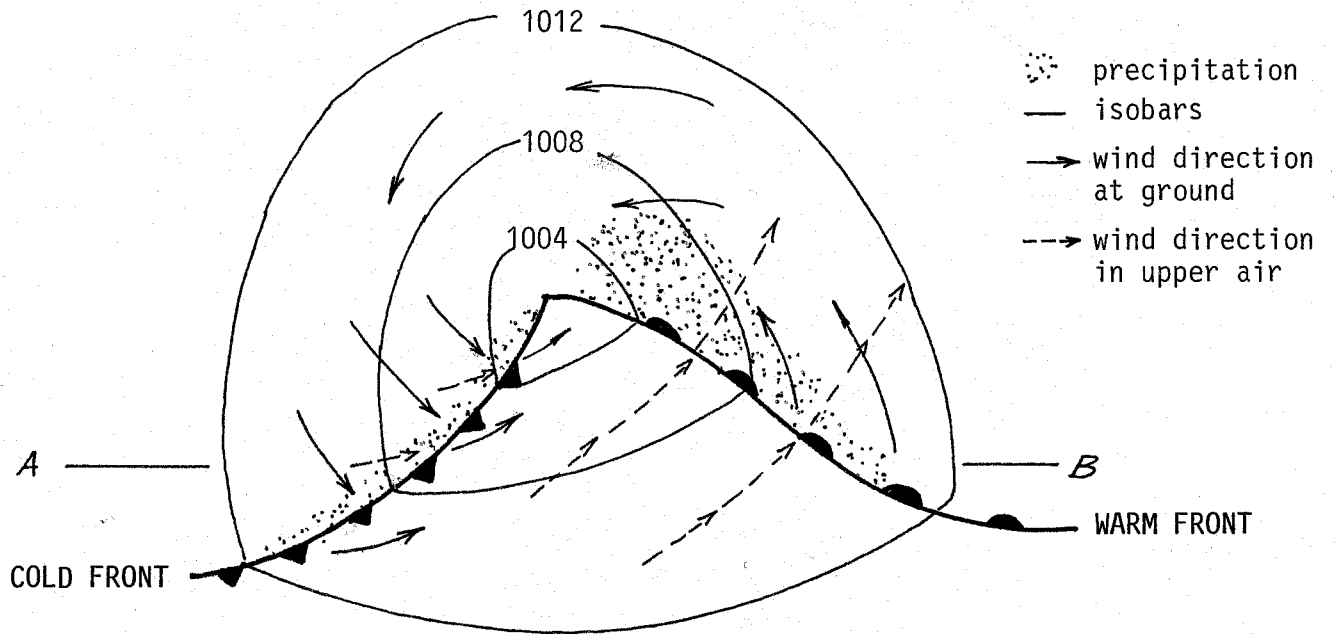
4. COLD AIR MOVES FASTER THAN WARM AIR AND EVENTUALLY CATCHES AND OCCLUDES IT



5. 'OLD LOW' -- WINDS BLOW AROUND THEMSELVES; FRONTS MAY DETACH OR HAVE DECAYED



PLAN OF DEVELOPING POLAR FRONT CYCLONE



CROSS-SECTION OF CYCLONE ALONG LINE A - B

