



WEATHER

CONVECTIVE SIGMET

55 PAST HOUR
VALID FOR 2 HOURS
OBSERVATION AND FORECAST

SEVERE THUNDERSTORMS
TORNADOES
EMBEDDED THUNDERSTORMS
LINE OF THUNDERSTORMS
60 MILES LONG AND 40% OF ITS LENGTH
THUNDERSTORMS PRODUCING HEAVY OR
GREATER PRECIPITATION MORE THAN 40%
AN AREA OR 3000 SQUARE MILES.
CONVECTIVE SIGMET ALWAYS IMPLIES
SEVERE OR GREATER TURBULENCE,
SEVERE ICING OR LLWS

SIGMET

MAXIMUM FORECAST OF 4 HOURS
NON-CONVECTIVE
SEVERE ICING
EXTREME TURBULENCE
DUST STORM
VOLCANIC ASH



WEATHER

AIRMET

LOWER INTENSITY ADVISORY
VALID FOR 6 HOURS

AIRMET T

MOD TURB SURFACE WINDS 30 KNOTS OR
GREATER NON CONVECTIVE LLWS

AIRMET Z ICING

AIRMET S IFR CONDITIONS SUCH AS
MOUNTIAN OBSCURATIONS

PIREP UA OR URGENT PIREP UUA

METAR- EVERY HOUR SURFACE
WEATHER OBSERVATION

TAF TERMINAL AERODROME FORECAST 5
SM RADIUS AROUND A STATION. 4 TIMES A
DAY ISSUED EVERY 6 HOURS.



WEATHER

CONDITIONS NECESSARY FOR A THUNDERSTORM

1. HUMIDITY
2. UNSTABLE LAPSE RATE
2. UPLIFTING FORCE

THUNDERSTORM HAZARDS

LIMITED VIS, WIND SHEAR, UPDRAFTS AND DOWNDRAFTS, ICING, HAIL, HEAVY RAIN, LIGHTNING AND. TORNADOES

LIFE CYCLE OF A THUNDERSTORM

1. CUMULUS STAGE
LIFTING ACTION OF THE AIR
2. MATURE STAGE- RAIN FALLS UPDRAFTS MAY EXCEED 6000FT DOWNDRAFTS MAY EXCEED 2500FT
3. DISSIPATING STAGE STRONG DOWNDRAFT - CELL IS DYING