

Ground Lesson 4 -- Weather to Fly -- Go/No Go -- ADM Introduction

Objective:

For the student to begin obtaining the weather briefing and determining whether the flight is go/no go based on predictions.

Content:

____ Global Energy engine

Information Resources:

Regional Weather

Fronts - ____ warm ____ cold ____ approaching ____ past ____ none

Air Masses - ____ current warm air mass ____ current cold air mass

Pressure systems - ____ high ____ low ____ high and low ____ standard

Isobars - ____ close ____ far ____ none

Jet Stream - ____ close ____ far ____ North ____ South ____ overhead

Local conditions

Moisture - ____ high ____ some clouds ____ low ____ dew point spread

Wind and Upper Air - ____ windy ____ moderate ____ calm

Stability - ____ stable (1°C/1000) ____ standard (2°C/1000)

____ unstable (3°C/1000) ____ highly unstable (4°C/1000)

Barometer - ____ high ____ low ____ steady ____ rising ____ falling

Density Altitude - ____ high ____ low

Site Observations:

Winds and cycles - ____ AWOS/ASOS ____ average speed ____ direction ____ gusts

Mechanical turbulence potential - ____ none ____ some ____ high

Clouds and overall sky - ____ hazy/stable ____ stratus clouds ____ cumulus clouds

____ wind clouds ____ clouds moving, estimated speed ____

Whether to Fly?

Pilot prediction - ____ calm air ____ windy ____ smooth ____ bumpy

Explain predicted expected changes during the flight _____

Pilot capabilities for predicted conditions - ____ capable ____ questionable ____ not capable

Aircraft limitations for predicted conditions - ____ capable ____ questionable ____ not capable

Physical condition - ____ good ____ marginal ____ not good

Mental attitude - ____ good ____ marginal ____ not good

Whether to fly decision - ____ go ____ no go

The Flight: ____ uneventful ____ interesting events-explain _____

Analysis:

Prediction - ____ as predicted ____ not as predicted - if not, research and explain why _____

Completion Standards:

Understand the Weather To Fly process and fill in the logbook prediction appropriately.

Assignment for this lesson:

- Watch the *Weather to Fly* DVD and answer the questions in the DVD booklet. Do weather analysis and fill in the logbook predictions for this lesson.
- Read *FAA Powered Parachute Flying Handbook* Chapter 1 pages 1-4 starting at Aeronautical Decision Making through the end of Chapter 1
- Read/study the questions in the *Sport Pilot Prepware CD* in the Weather and Weather Services section.

Lesson Results:

Date of completion _____ Instructor Signature/ID _____

Student Signature _____ Ground Time _____

Instructor remarks: