

UNITED STATES ARMY PRIMARY HELICOPTER SCHOOL
FORT WOLTERS, TEXAS 76067

File Nr. 2-311-1

PERFORMANCE OBJECTIVES

WINDS ALOFT

1. Knowledges:

- a. Given a winds aloft forecast, and a winds aloft chart, the students will be able to:
 - (1) Examine the winds aloft forecast and write:
 - (a) Date and time of transmission.
 - (b) Wind direction and speed for given altitudes.
 - (c) Temperature, if applicable.
 - (d) Time for which forecast is valid.
 - (2) Examine the winds aloft chart and write:
 - (a) The wind direction and speed for a given station.
 - (3) Write the times at which observations are made.

2. Skills - None

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STUDENT OUTLINE

WINDS ALOFT

1. Winds Aloft Forecast.

HEADING:

INTERPERTATION:

SPECIAL CASE I

SPECIAL CASE II

2. Winds Aloft Charts.

Wind Shaft Diagram,

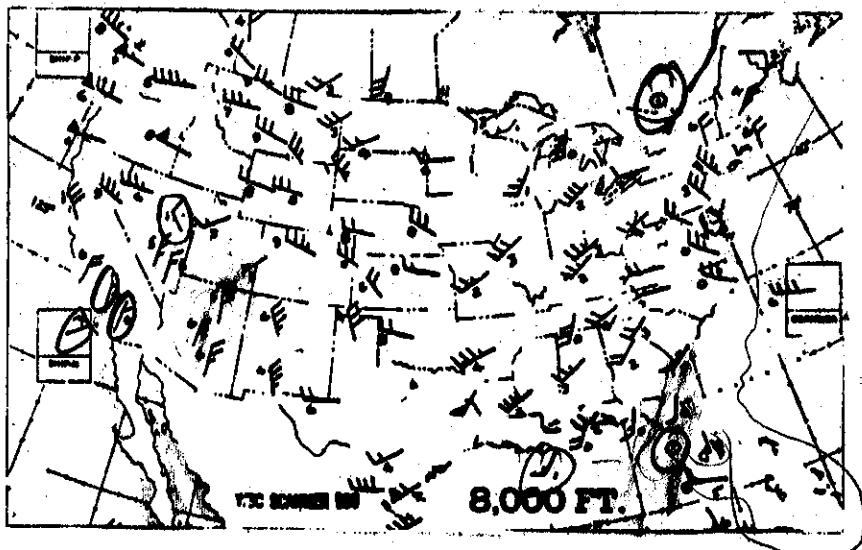
Reporting Levels.

PERFORMANCE CHECK

FT	3000	6000	9000	12000	18000	24000
JAX	0610	9900+04	2209+01	2718+02	2739+13	2756-23
MIA	0814	1009+11	9900+06	2911+02	2828-10	2738-21
MKC	1337	1538+02	1738-01	2249-07	2978-16	7806-27
DAL	1325	1834+10	1835+05	1834+02	1943-16	2064-27

USING THE ABOVE FORECAST ANSWER QUESTIONS 1 THRU 4

1. The forecast winds for 3000 ft. above Jacksonville (JAX) are 160 ° and 10 kts.
2. Decode the 6000 ft level above Jacksonville (JAX). Calm 0 kts. 04 °C
3. The 24000 ft Level above Kansas city (MKC) is forecast to be 78 ° and 106 kts 22 °C.
4. Flying a heading 070° above Jacksonville (JAX) THE BEST ALTITUDE WOULD BE 9000 ft.
3000/9000



Use the above portion of a lower winds aloft chart to answer questions 5 thru 8.

5. The wind direction and speed at 8000 ft. above Bermuda are 270 ° and 40 kts.

6. Flying from South to North at 8000 ft. above Arizona you would have strong
headwind
headwind/tailwind

7. THE STRONGEST WINDS ARE REPORTED

a. NW United States
b. SW " "
c. SE " "
D. NE " "

8. How many stations are reporting calm winds at 8000 ft? 2 0

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