

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,

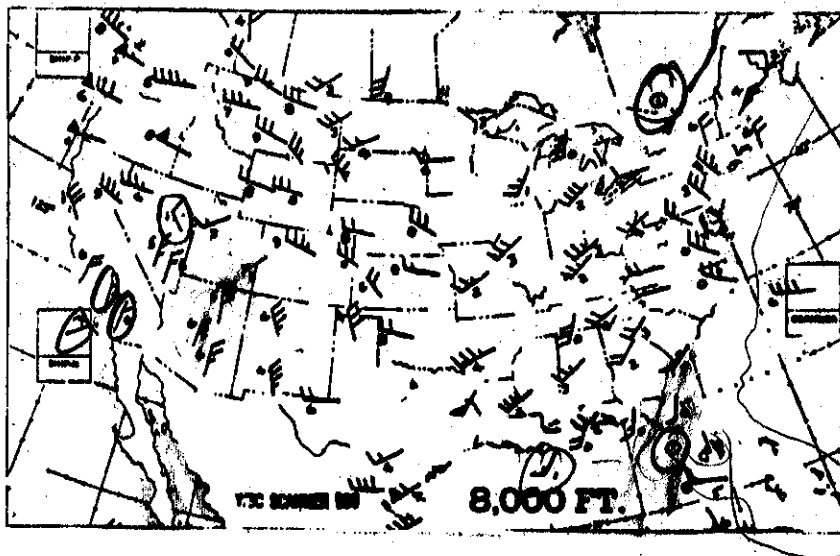
Reporting Levels.

PERFORMANCE CHECK

FT	3000	6000	9000	12000	18000	24000
JAX	0610	0900+04	2709+01	2718-02	2739-13	2756-23
MIA	0814	1009+11	0900+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

- The forecast winds for 3000 ft. above Jacksonville (JAX) are 160° and 10 kts.
- Decode the 6000 ft level above Jacksonville (JAX). calm and 040
- The 24000ft Level above Kansas city (MKC) is forecast to be 28° and 106 kts 27°C.
- 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.

- 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

6