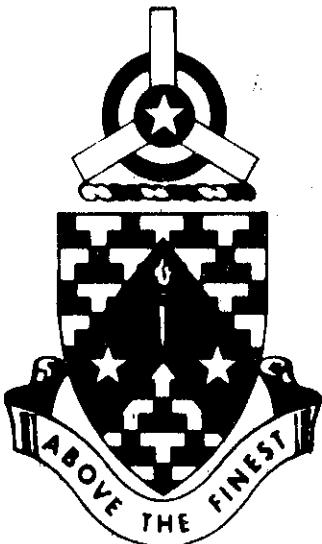


PROGRAMED TEXT

TERMINAL AND AREA FORECASTS

AM 75



JANUARY 1969

UNITED STATES ARMY
PRIMARY HELICOPTER SCHOOL
FORT WOLTERS, TEXAS

PROGRAMMED TEXT

PROGRAM TEXT

FILE NO: AM 75

PROGRAM TITLE

TERMINAL AND AREA FORECASTS

POI SCOPE: Explanation of the information provided on terminal and area forecasts; to include valid time, forecast weather, and hazards to flight.

INSTRUCTOR REFERENCES:

TM 1-300
Chapter 16

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TABLE OF CONTENTS

PROGRAMED TEXT**FILE NO:** AM 75**PROGRAM TITLE:**

TERMINAL AND AREA FORECASTS

	CONTENTS	PAGE NUMBER
1. PREFACE		iii
2. PERFORMANCE OBJECTIVES		iv
3. PROGRAM		1
a.		
b.		
c.		
d.		
e.		
4. SELF EVALUATION EXERCISE		14
5. ANSWERS TO SELF EVALUATION EXERCISE		18
6. ITEMS TO BE ISSUED WITH PROGRAM		
7.		
8.		
9.		
10.		

PREFACE

Weather forecasts are available at the weather station in the form of teletype transmissions, locally prepared forecasts, and facsimile prognostic charts. The aviator may also be advised of the development of potentially hazardous weather by radio transmission during flight. Each type of forecast is designed to serve a specific function, therefore, each will vary to some extent in format and scope.

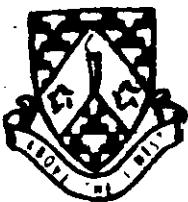
The teletype forecasts, terminal and area, are made up of a series of abbreviated words, and the only way to learn them is by repetitive use.

Start with frame 1 and work each frame in succession. Each frame will usually ask you a question. The correct answer is printed on the top of the next frame. If you were incorrect, turn back and restudy the information before continuing on to the next frame. When you have finished the text, complete the self evaluation exercise. Now begin by studying the performance objectives on page iv.

PERFORMANCE OBJECTIVES

Given an area or terminal forecast, you will, without the aid of reference material, read and interpret information provided on the forecast, to include; valid time, forecast weather, and hazards to flight.

6th WOC Co
3A1-OH-23
3B1-OH-23
3B2-TH-55
3B3-TH-55
3B4-TH-55



UNITED STATES ARMY PRIMARY HELICOPTER SCHOOL

FORT WOLTERS, TEXAS

CLASS 70-3

SCHEDULE OF INSTRUCTION FOR PERIOD BEGINNING 29 Sep-3 Oct 69 WEEK 11th Flt

SECTIONS	PICK-UP POINT	CLASSRM BLDG	CLASS-TIME (Mon-Fri)	DATE	SUBJECT	INSTRUCTOR	UNIF	REMARKS
(M) 3A1	750	703,1	0730-0920	Mon 29 Sep	AM 79 Wea Flt Plan Exercise	Airmanship	C	Two hours.
(S) 3B1	750	703,2	1600-1750					
(M) 3B2	750	703,1	1600-1750	Tue 30 Sep	WD 54 Effective Writing	Development	C	
(M) 3B3	750	703,1	1600-1550	AM 80 A/C Accident Prev Prog	Airmanship	C		
(S) 3B4	750	703,2	1600-1550	Wed 1 Oct	AM 81 Admin Responsibilities	Airmanship	C	
				AM 82 A/C Accident Invest	Airmanship	C		
				Thu 2 Oct	WD 55 Effective Writing	Development	C	Two hours.
				Fri 3 Oct	AME 16 Exam	Airmanship	C	
					AM 83 Air Mass Wea (SE Asia)	Airmanship	C	

FLIGHT TRAINING NOTE:

Mon-Fri "A" Flights 1300-1820; "B" Flights 0700-1220

CPT Vandel Demp 7
MAJ Fishburn Demp 6
CPT McClure Demp 5
MAJ Fitzgerald Demp 7
CPT Craft Demp 8

NOTES:

NON-ACADEMICS

3A1 CI, Mon, 0930-1020 TV; CG, Wed, 0930-1020 TV, Bldg 770
3B1 CI, Mon, 1500-1550 TV; CG, Wed, 1500-1550 TV, Bldg 770
3B2 CI, Tue, 1500-1550 TV; CG, Wed, 1400-1450 TV, Bldg 770
3B3 CI, Tue, 1600-1650 TV; CG, Wed, 1600-1650 TV, Bldg 770
3B4 CI, Mon, 1700-1750 TV; CG, Wed, 1700-1750 TV, Bldg 770
PT-Two hours PT to be accomplished LAW AR 40-5 & Med TB 175
as scd, O & I, Sch Bde

BUS TRANS PROVIDED 10 MIN PRIOR TO CLASS & 40 MIN PRIOR TO FLT TNG TO DEMP, 15 MIN TO DOWNING & 10 MIN TO ON POST -

FOR THE ASSISTANT COMMANDANT

1SAPHC/S Form 555A (Rev)
(HST) 20 August 1969

Robert E. Steel
ROBERT E. STEEL
Asst Dir of Acad S/A

Wallace L. Hickman
WALLACE L. HICKMAN, MAJ, CE
Chief, Scd Div, OTM

FRAME 1

There are two types of teletype forecasts; area, and terminal. The area forecasts are prepared daily for transmission over FAA teletype service A at approximately 0100Z, 0700Z 1300Z and 1900Z. They give the expected conditions for a 12 hour period, with an outlook section valid for an additional 12 hours.

The following is an example of a weather bureau area forecast, which consists of five basic sections:

1. the circuit heading.
2. Clouds and weather.
3. icing.
4. turbulence.
5. outlook for the next 12 hour period.

Interpretation of the following area forecast will be done in this program.

1. FA GSW 211845
19Z WED-07Z THU
NWNRN N CNTRL NERN TEX OKLA
2. CLDS AND WX, HGTS ASL UNLESS NOTED. STG COLD LO LVL NLY FLO OVR NRN TEX AND OKLA CONTG NEXT 12-18 HRS. OVR OKLA AND NRN TEX GENLY S AND E OF A LN FM FT SMITH TO FT SILL TO BIG SPRING C8-120 TOPS MULTI LYRD ABV 120 LCLY CLX3/4R-F OR ZL-S-F. CONDS CONTG PAST MIDN. OVR OKLA AND NRN TEX W OF A LN FM FT SMITH TO FT SILL TO BIG SPRING CLDNS DCRG BCMG GENLY 20-400V@ AGL CONTG PAST MIDN. LN OF DCRG CLDNS MOVG SEWD ARND 15-18 KTS.
3. ICG, LGT TO MDT LCLY HVY ICGICIP ABV FRZG LVL. FRZG LVL NEAR SFC ALG AND N OF A LN FM TEXARKANA TO BROWNWOOD. SFC FRZG LVL LN MOVG SEWD ARND 15 KTS. FRZG LVL SLPG TO NEAR 70 OVR SRN PTN NERN TEX.
4. TURBC, LGT TO OCNL MDT TURBC OVR N CNTRL AND NERN TEX.
5. OTLK 07Z-19Z THU. CONDS OVR NRN TEX AND OKLA BCMG GENLY C20-300V@ ARND DABRK CONTG PAST NOON.

TURN TO FRAME 2 PAGE 3

ANSWER: d. The ceiling will be 1500 to 3000 feet overcast.

FRAME 7

Use the following area forecast to answer questions one through four.

FA SAT 211845
19Z WED-07Z THU

SWRN S CNTRL SERN TEX AND CSTL WTRS

CLDS AND WX. HGTS ASL UNLESS NOTED. STG CDFNT 30 NW MCALLEN-HOUSTON-ENEWD LN AT 19Z MOVG RPDLY SEWD OUT OF DIST LGV STG RDG HI PRES SFC AND ALF OVR DIST

COND S C200V0 TOPS 60 S OF FNT LWRC TO C8-180 WITH FROPA. FEW C8@3RW- TOPS 150 SERN TEX AND N PTN S CNTRL TEX TIL 22Z. COND IPV TO C200V0 W OF BIG SPRING-BIG BEND LN EXCP E SLPS GUADALUPE-DAVIS MTNS GENLY C200. IPVMT SPRDG SLOLY SEWD TO BROWNWOOD-DEL RIO LN DURG AFTN BUT OVR AREA BROWNWOOD-DEL RIO LN WWD TO GUADALUPE-DAVIS MTNS LWRC TO C5-120 PTCHY C5@3ZL-F OR S- BY 02Z AS SFC WNDs BCM ENLY AND UPSLP BEGINS. RMNDR DIST GRDLY IPVIG TO C20-300V0 FM W AFT 00Z SPRD TO CST BY 07Z. CLD TOPS TO 60 ALSECS HIR 1000 TOPS 140 SERN TEX DCRG FM W. SFC WNDs NLY GUSTS TO 38 KTS N OF FNT TIL 00Z

ICG. LGT OCNLY MDT ICGCIP ABV FRZLVL EXCP AFT 02Z OCNLY HVY ICGCIP BLO 60 FORT HOOD-DEL RIO LN WWD TO GUADALUPE-DAVIS MTNS. FRZLVL 120 S OF FNT LWRC TO 80 SOME (150 M) N OF FNT AND LWRC TO SFC N OF JUNCTION-FORT STOCKTON-GUADALUPE PASS LN

TURBC. OCNL MDT TURBC FOR LGT ACFT BLO 120 WITH WNDs TO 40 KTS WITHIN 2 THSD FT OF SFC DCRG TO LGT AFDK

OTLK 07Z-19Z THU- UPSLP CLDNS AND PCPN CONTG MOST SECS SWRN TEX E OF MTNS. LTLCG ELSW TIL NR END OF PD WHEN TROFT AT UPR LVLS BEGINS OVR SRN TEX AND GRDL DTRTN BEGINS S CNTRL TEX

CONTINUED ON PAGE 4

FRAME 2

There are five elements of information given in the circuit heading of an area forecast. These are:

1. Area forecast identifier.
2. Station identifier.
3. Date time group.
4. Valid time for the forecast.
5. Geographical area covered by the forecast.

FA GSW 211845

19Z WED - 07Z THU

NWRN N CNTRL NERN TEX OKLA

In the above circuit heading, FA is the area forecast identifier. GSW is the station identifier (Greater Southwest). The forecast was transmitted on the 21st day of the month at 1845 Zulu time. It is valid from 1900Z Wednesday to 0700Z Thursday. The geographical area covered is Northwestern, North Central, and Northeastern Texas, and Oklahoma.

FA ABQ 211845

19Z WED-07Z THU

ARIZ NEW MEX

What is the valid forecast time indicated by the above circuit heading?

- a. 2100C to 1800C.
- b. 1845Z to 1900Z.
- c. 1900Z Wed to 0700Z Thurs.
- d. 1845Z Tues to 1900Z Wed.

FRAME 3 PAGE 5

1. When was the forecast transmitted?

- a. 19th day of the month at 0700Z
- b. 21st day of the month at 1845Z
- c. 2nd day of the month at 1845Z
- d. 18th day of the month at 2145Z

2. What will the ceiling be after frontal passage?

~~2000~~

- a. 2000 feet broken variable scattered.
- b. 8000 feet overcast.
- c. 1800 feet broken variable scattered.
- d. 800 to 1800 feet overcast.

3. The velocity of the surface wind prior to sunset is

~~40~~

- a. 40 knots.
- b. 120 knots.
- c. 40 knots.
- d. light and variable.

4. What is the freezing level 150 miles north of the front?

~~12,000~~

- a. 12,000 feet.
- b. 6,000 feet.
- c. 8,000 feet.
- d. 15,000 feet.

5. How often are area forecasts transmitted?

~~twice daily.~~

- a. twice daily.
- b. four times a week.
- c. once a day.
- d. four times daily.

ANSWER: c. 1900Z Wed to 0700Z Thurs.

FRAME 3

CLDS AND WX. HGTS ASL UNLESS NOTED. STG COLD LO LVL NLY FLO
OVR NRN TEX AND OKLA CONTG NEXT 12-18 HRS. OVR OKLA AND NRN
TEX GENLY S AND E OF A LN FM FT SMITH TO FT SILL TO BIG
SPRING C8-120 TOPS MULTI LYRD ABV 120 LCLY C4X3/4R-F OR
ZL-S-F. CONDS CONTG PAST MIDN. OVR OKLA AND NRN TEX W OF
A LN FM FT SMITH TO FT SILL TO BIG SPRING CLDNS DCRG BCMG
GENLY 20-4000' AGL CONTG PAST MIDN. LN OF DCRG CLDNS MOVG
SEWD ARND 15-18 KTS.

Interpretation of the above clouds and weather section of an area forecast is as follows:

Clouds and weather. Heights above sea level unless noted. A strong cold low level northerly flow of the air will be over Northern Texas and Oklahoma continuing for the next 12-18 hours. Over Oklahoma and Northern Texas generally south and east of a line from Ft. Smith to Ft. Sill to Big Spring the ceiling will be from 800 to 1200 feet overcast. Cloud tops are multiple layered above 1200 feet. The local ceiling is 400 feet obscured 3/4 mile visibility light rain and fog or light freezing drizzle light snow, fog. These conditions will continue past midnight over Oklahoma and Northern Texas west of a line from Ft. Smith to Ft. Sill to Big Spring. Cloudiness will decrease becoming generally 2000 feet to 4000 feet scattered variable broken above ground level continuing past midnight. The line of decreasing cloudiness will move south eastward around 15 to 18 knots.

ANSWERS: 1. b. 211845 is the 21st day of the month at 1845Z (See Frame 2)
2. d. 800 to 1800 feet overcast (See Frame 3).
3. a. Velocity will be 40 knots (see turbulence section and Frame 5).
4. c. Freezing level is 8000 feet 150 miles north of the front (See icing section and Frame 4).
5. d. Area forecasts are transmitted four times daily at 0100Z, 0700Z, 1300Z, and 1900Z (Refer to the preface).

FRAME 8

Terminal forecasts are prepared 4 times daily at approximately 500 civilian and military aviation terminals in the United States. Weather Bureau terminal forecasts are valid for either 12 or 24 hour periods, and are prepared at approximately 0500Z, 1100Z, 1700Z and 2300Z. Air weather service forecasts are valid for 24 hour periods and are prepared every 6 hours beginning at 0300Z.

The following information is related to the weather bureau terminal forecast.

1. Forecast ceilings will be preceded by the letter C.
2. Visibility in excess of 8 statute miles are omitted.
3. Winds below 12 knots are omitted.
4. When more than one layer of clouds is expected, the layers are indicated in the body of the forecast.

ARK KY TENN N HLF MISS

CLDS AND WX. HGTS ASL UNLESS NOTED. STG CDFNT N ALA
N MISS S ARK AT 07Z MOVG TO GLFCST BY 19Z

CNTRL AND N ARK EXTRM N MISS TENN S KY C2007 OCNL C8X1SW-
WITH HIR TRRN OBSCD. SNW MXD WITH FRZG RAIN AND SLEET IN
FNTL ZONE. LYR CLDS TO 150. CONDS IPVG BY 19Z TO
3001000 OCNL C3001000

RMNDR KY C800 EXCP THRU E KY OCNL C1204SW- TIL 15Z.
CLD TOPS ABT 100

S ARK RMNDR N MISS 300-0 BCMG BY DABRK C2007 OCNL
C802R-S- IPVG TO C4001000 BY 19Z

Fill in the blanks by referring to the above cloud and weather section
of an area forecast.

Arkansas, Kentucky, Tennessee, Northern half of Mississippi

Clouds and weather. Heights above sea level unless noted.

Strong sold front in Northern Alabama Northern
Mississippi, Southern Arkansas at 0700Z moving to the Gulf coast
by 1900Z.

Central and Northern Arkansas, extreme Northern Mississippi, Tennessee,
Southern Kentucky the ceiling will be 2000 overcast with 7 miles visi-
bility occasionally the ceiling will be 800' obscured, visibility with snow
with the higher terrain obscured. Snow showers overcast
with foggy rain and sleet in the frontal Zone. There
will be scattered clouds up to 15000 ft. Conditions improving
by 1900Z to 3000 scattered 10000 scattered occasionally the
ceiling will be 3000 broken 10000 broken.

Northern of Kentucky the ceiling is 8000 broken except
through eastern Kentucky occasionally the ceiling will be 12000 overcast with
4 miles of visibility due to light snow showers til 1500Z Cloud tops
above 10,000 ft.

Southern Arkansas rainy. Northern Mississippi 30,000
thin scattered becoming by Daybreak ceiling 2000 overcast 7
miles visibility occasionally to a ceiling of 4000 broken
10,000 overcast by 1900Z

FRAME 9

FTI ABQ 211045

11Z-23Z WED

In the circuit heading above, the FT is the identifier for terminal forecast, I identifies a 12 hour forecast, ABQ (Albuquerque) is the reporting area, and 211045 is the date time group indicating that the forecast was made the 21st day of the month at 1045. The forecast is valid from 1100Z to 2300Z Wednesday. Each reporting area will receive forecasts from more than one weather station.

From the following circuit heading, the forecast was transmitted

~~21 1045 TUE~~, and is valid from ~~1100Z-2300Z WED~~.

FTI ATL 201645

20 1645

17Z TUE-05Z WED

1700hr Tue - 0500z wed.

ANSWER: Clouds and Weather. Heights above sea level unless noted. Strong cold front in northern Alabama northern Mississippi, southern Arkansas at 0700Z moving to the Gulf Coast by 1900Z.

Central and northern Arkansas extreme northern Mississippi, Tennessee southern Kentucky the ceiling will be 2000 overcast with 7 miles visibility occasionally the ceiling will be 800 obscured 1 mile visibility with light snow showers with the higher terrain obscured. Snow showers mixed with freezing rain and sleet in the frontal zone. There will be layer clouds up to 15000 ft. Conditions improving by 1900Z to 3000 scattered 10000 scattered. Occasionally the ceiling will be 3000 broken and 10000 broken.

Remainder of Kentucky the ceiling is 8000 broken except through eastern Kentucky occasionally the ceiling will be 1200 overcast with 4 miles of visibility due to light snow showers till 1500Z. Cloud tops about 10000 ft.

Southern Arkansas remainder northern Mississippi 30000 thin scattered becoming by daybreak ceiling 2000 overcast 7 miles visibility occasionally ceiling 800 overcast 2 miles visibility light rain and light snow improving to a ceiling of 4000 broken 10,000 overcast by 1900Z.

FRAME 4

ICG. LGT TO MDT LCLY HVY ICGICIP ABV FRZG LVL. FRZG LVL NEAR SFC ALG AND N OF A LN FM TEXARKANA TO BROWNWOOD. SFC FRZG LVL LN MOVG SEWD ARND 15 KTS. FRZG LVL SLPG TO NEAR 70 OVR SRN PTN NERN TEX.

Interpretation of the above icing section of an area forecast is as follows:

Icing: Light to moderate locally heavy icing in clouds and in precipitation above the freezing level. Freezing level near the surface along and north of a line from Texarkana to Brownwood. The surface freezing level line moving southeastward around 15 knots. The freezing level is sloping to near 7000 feet over the southern portion of northeastern Texas.

ICG. MDT PSOBLY LCLY HVY MXD ICGICIP. FRZG LVL 100 ALG CDFNT LWRG TO SFC ABT 80 MIS N OF CDFNT.

Where will the freezing level reach the surface with relation to the cold front?

- a. 100 miles behind front
- b. 80 miles south of front.
- c. 100 miles north of front.

80 miles north of front.

ANSWER: The forecast was transmitted the 20th day of the month at 1645Z, and is valid from 1700Z Tuesday to 0500Z Wednesday.

FRAME 10

SVC 300-0 3512G18. 1800Z 1500300-0 3618G28 OCNLY 700

SVC (Silver City, N. Mex) from the above terminal forecast is reporting 30,000 feet thin scattered with winds from 35° at 12 knots gusting to 18 knots. At 1800Z the sky condition will be 15,000 scattered 30,000 thin broken with winds from 36° at 18 knots gusting to 28 knots, occasionally 7,000 scattered.

ELN

VCT C0X0F 1910 VRBL C301/2F. 1500Z C401F 1815. 1630Z C120 1815
ΦVQ. 2000Z COLD FROPA C120 3620G OCNL R-
PSX C0X0F 1710 VRBL C301/2F. 1500Z C401F 1815. 1630Z C120 1815
ΦVQ. 2100Z COLD FROPA 3620G OCNL R-
ALD C0X0F 1610 VRBL C301/2F. 1400Z C401F 1710. 1600Z C1007 1815
ΦVQ. 1900Z C250 1815G ΦVQ
LRD C0X0F 1410 VRBL -X1/2F. 1600Z C120 1512 ΦVQ. 1900Z C250 1715G

NOTE: An intermittent condition is indicated by the contraction INTER and followed by a four digit group denoting the period of the intermittent conditions. The symbols INTER 14-16Z would be read as intermittently from 1400Z to 1600Z.

From the above forecasts, at what time will the cold front pass PSX (Palacios, Texas)?

- a. 1500Z
- b. 1630Z
- c. 2100Z
- d. 1400Z

What is the forecast ceiling visibility, and winds for 1600Z at ALI (Alice, Texas)?

- a. 1000 ft. overcast, 7 miles visibility, winds 180° at 15 knots, the overcast is variable broken.
- b. 400 ft. overcast, 1 mile with fog, wind 170° at 10 knots.
- c. 300 ft. overcast, 1/2 mile with fog.
- d. 400 ft. overcast, 1 mile with fog, wind 180° at 15 knots.

ANSWER: d. The freezing level will lower to the surface about 80 miles north of the cold front.

TURBC. LGT TO OCNL MDT TURBC OVR N CNTRL AND NERN TEX.

Interpretation of the above turbulence section of an area forecast is as follows:

Turbulence. Light to occasionally moderate turbulence over North Central and Northeastern Texas.

FRAME 5

TURBC. OCNL MDT BLO 10 OVR AREA EXCP LCLY SVR (BLO 60) OVR RUF TRRN

What type turbulence is forecast for rough terrain?

- a. Occasionally moderate below 1000 feet.
- b. Locally severe below 6000 feet.
- c. Locally severe above 6000 feet.
- d. Occasionally moderate above 1000 feet.

ANSWER: 1. c. The cold front will pass by 2100Z.

2. a. The forecast ceiling, visibility, and wind for 1600Z at ALI is 1000 feet overcast, 7 miles visibility, with the wind from 180° at 15 knots. The overcast is variable broken.

NOTE: Frontal passage could have also been recognized by the wind shift, i.e., PSX 1630Z 1815
2100Z 3620G

CONTINUE TO THE SELF EVALUATION EXERCISE PAGE 14

ANSWER: b. locally severe below 6000 feet over rough terrain.

FRAME 6

OTLK 07Z-19Z THU. CONDS OVR NRN TEX AND OKLA BCMG GENLY
C20-3000V~~0~~ ARND DABRK CONTG PAST NOON.

Interpretation of the above outlook section of an area forecast is as follows:

Outlook from 0700Z to 1900Z Thursday. Conditions over Northern Texas and Oklahoma becoming generally, ceiling 2000 to 3000 feet broken variable overcast around day break continuing past noon.

OTLK 19Z WED-07Z THU. GENLY C15-300 IN CNTRL AND ERN OKLA N
CNTRL AND NERN TEX AND C8-180 INTMT S- IN NWREN TEX AND WRN OKLA.

What will the ceiling be at 2400Z over North Central Texas?

- a. 3000 feet scattered.
- b. 1500 feet overcast.
- c. 1800 feet overcast.
- d. 1500 to 3000 feet overcast.

STOP, RETURN TO PAGE 2 FRAME 7

SELF EVALUATION EXERCISE

Answer questions 1 through 10 using the following area forecast.

FA GSW 210045

0 12-13Z WED

NWRN N CNTRL NERN TEX OKLA

CLDS AND WX. HGTS ASL UNLESS NOTED. CDFNT 01Z NR LITTLE ROCK
HOBART PUEBLO LN WL MOV TO NR SHREVEPORT MINERAL WELLS LUBBOCK
LN NWWD BY 13Z

N OF FNT GENLY 80-1000V03000V0 EXCP LWRG EXTRM NRN OKLA AND
NRN PTN TEX PNHDL

ICG. LGT OCNL MDT RIME ICCICIP ABV FRZG LVL. FRZG LVL 110.
LWRG TO SFC NRN OKLA TEX PNHDL

TURBC. OCNL MDT TURBC BLO 50 N FNT

OTLK 13Z WED-01Z THU. CDFNT CONIG SWD TO NR LUFKING TEMPLE
HOBBS LN BY 01Z. GENLY C60-800V02500V0 EXCP LWRG TEX PNHDL
AND NRN OKLA C20-3007 LCLY C1202S-

X 1. What station was this forecast transmitted from?

- a. FA
- b. GSW
- c. NWRN
- d. OKLA

2. During what time period is the forecast valid?

- a. 2100 to 0045 Wed.
- b. 0045Z to 1300Z Wed.
- c. 0045Z to 0100Z Wed.
- d. 0100Z to 1300Z Wed.

3. At what time will the cold front reach Mineral Wells?

- a. By 0100Z.
- b. By 1300Z
- c. By 0045Z
- d. By 1320Z

4. What ceiling will be encountered after 0900Z north of the front?

- a. 1800 to 2500 ft. obscured.
- b. 8000 to 10000 ft. scattered.
- c. 30000 broken variable overcast.
- d. 1800 to 2500 ft. overcast.

5. At what altitude is the freezing level?

- a. 110 ft.
- b. Flight level 110.
- c. 11000 ft.
- d. 1100 ft.

6. What type ice could be encountered in the clouds?

- a. Structural ice.
- b. Clear ice.
- c. Rime ice.
- d. All the above.

7. What turbulence will be encountered?

- Occasionally moderate above 5000 ft.
- Light to moderate below 5000 ft.
- Moderate below 5000 ft.
- Occasionally moderate below 5000 ft.

8. The outlook forecast is valid for what period time?

- 0100Z Tue to 1300Z Wed.
- 1300Z Wed to 0100Z Thu.
- 1300Z Tue to 0100Z Wed.
- 0100Z Wed to 1300Z Thu.

9. What time is the cold front expected to reach Lufkin?

- 0100Z
- 1300Z
- 0100C.
- 0600Z

10. What is the expected ceiling in Northern Oklahoma after 1300Z Wednesday?

- 6000 to 8000 broken.
- 8000 to 10000 scattered variable broken.
- 6000 to 8000 broken variable scattered.
- 2000 to 3000 overcast.

Answer questions 11 through 15 using the following terminal forecast.

FT1 202245

23Z TUE-11Z WED

ATL O 2714. 0400Z C250 2816. 0800Z FROPA

OCNL R-

PSBLY CHGG TO ZR-

BHM O 2714. 0400Z OCNL 300. 0200Z C250 2816. 0700Z FROPA C150 3415G

OCNL R- PSBLY CHGG TO ZR- OR S-

HSV C250 2816. 0200Z FROPA C120 3415 OCNL R- PSBL ZR- CHGG TO S-

11. Frontal passage will occur at what time over ATL (Atlanta, Ga.)?

- a. 0400Z
- b. 0800C
- c. 1100Z
- d. 0800Z

12. The wind at BHM (Birmingham, Ala.) at 0200Z will be

X

- a. 280° 16 knots.
- b. 340° 15 knots gusting to 20 knots.
- c. 270° 14 knots.
- d. 340° 25 knots.

13. What type precipitation will occur after 0800Z over ATL (Atlanta)?

- a. Light snow.
- b. Rain.
- c. Sleet.
- d. Light rain possibly changing to light freezing rain.

14. The ceiling over HSV (Huntsville, Ala.) after frontal passage will be

- a. 2500 broken.
- b. 1200 overcast.
- c. 3000 scattered.
- d. 1500 overcast.

15. The ceiling at 0200Z over BHM (Birmingham, Ala.) will be

- a. 2500 broken.
- b. 1500 overcast.
- c. 1200 overcast.
- d. 3000 scattered.

KEY TO SELF EVALUATION EXERCISE

1. b
2. d
3. b
4. c
5. c
6. c
7. d
8. b
9. a
10. d
11. d
12. a
13. d
14. b
15. a