

Meteorology

COMMERCIAL
PILOT
LICENCE
AEROPLANE &
HELICOPTER

TRAINING AND EXAMINATION WORKBOOK

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online practice exams



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Area Forecast 1

AMD ARFOR: AREA 21

OVERVIEW:

SURFACE TROUGH EXPECTED THROUGH YYNG/YMER AT 22Z, THROUGH YBTH/YSNW AT 05Z AND EAST OF AREA AT 11Z. SCTATTERED SHOWERS AND THUNDERSTORMS INCLUDING ISOLATED HAIL. AREAS OF RAIN CONTRACTING EASTWARDS. ISOLATED FOG AFTER 11Z. REFER: SIGMET RE SQUALLS AND HAIL.

SUBDIVISIONS:

- A: E OF TROUGH
- B: W OF TROUGH

AMD WIND:

2000	5000	7000	10000	14000	18500
A: 350/25	340/30	340/35	340/40	340/50 MS04	340/55 MS14
B: 260/25	260/30	60/30	280/30 ZERO	280/40 MS08	280/60 MS17

AMD CLOUD:

AREAS OF BKN ST 1000/3000 W SLOPES 3000/5000 RANGES
ALSO WITH PRECIPITATION 1000/3000 COAST/SEA
BKN CUSC 2500/10000 W SLOPES 4500/11000 W RANGES
SCT CUSC 2500/10000 COAST/SEA 4500/11000 E RANGES
ISOL CB 5000/35000
BKN ACAS ABV 10000 CONTRACTING E

AMD WEATHER:

RA CONTRACTING E, SH/TS WITH HAIL, FOG AFTER 11Z

AMD VISIBILITY:

5000M SH/RA, 3000 TS, 0500 FG

AMD FREEZING LEVEL:

- A: 12000
- B: 9500

AMD ICING:

MOD IN CU 9500/11000 AND AC

AMD TURBULENCE:

MOD WITH CU AND AC
MOD TO ISOL SEV RANGES/COAST/60NM OFFSHORE
REFER: SIGMET RE SQUALLS AND HAIL

Area Forecast 2

AMD ARFOR: AREA 21

OVERVIEW:

SURFACE TROUGH EXPECTED THROUGH YSWG/YMCO AT 04Z, THROUGH YCWR/YMRY AT 10Z AND EAST OF AREA AT 16Z. SCTATTERED SHOWERS AND THUNDERSTORMS INCLUDING ISOLATED HAIL. AREAS OF RAIN CONTRACTING EASTWARDS. ISOLATED FOG AFTER 16Z. REFER: SIGMET RE SQUALLS AND HAIL.

SUBDIVISIONS:

- A: E OF TROUGH
- B: W OF TROUGH

AMD WIND:

2000	5000	7000	10000	14000	18500
A: 350/25	340/30	340/35	340/40	340/50 MS04	340/55 MS14
B: 260/25	260/30	60/30	280/30 ZERO	280/40 MS08	280/60 MS17

AMD CLOUD:

AREAS OF BKN ST 1000/3000 W SLOPES 3000/5000 RANGES
ALSO WITH PRECIPITATION 1000/3000 COAST/SEA
BKN CUSC 2500/10000 W SLOPES 4500/11000 W RANGES
SCT CUSC 2500/10000 COAST/SEA 4500/11000 E RANGES
ISOL CB 5000/35000
BKN ACAS ABV 10000 CONTRACTING E

AMD WEATHER:

RA CONTRACTING E, SH/TS WITH HAIL, FOG AFTER 11Z

AMD VISIBILITY:

5000M SH/RA, 3000 TS, 0500 FG

AMD FREEZING LEVEL:

- A: 12000
- B: 9500

AMD ICING:

MOD IN CU 9500/11000 AND AC

AMD TURBULENCE:

MOD WITH CU AND AC
MOD TO ISOL SEV RANGES/COAST/60NM OFFSHORE
REFER: SIGMET RE SQUALLS AND HAIL

Area Forecast 3

ARFOR: AREA 21

OVERVIEW:

WEAK SURFACE TROUGH EXPECTED AT 23Z THROUGH YPKS/YMRY AT 10000 SLOPING WITH HEIGHT TO 18500 ABOUT YSWG/YORB.

SUBDIVISIONS:

- A: E OF TROUGH
- B: W OF TROUGH

WIND:

2000	5000	7000	10000	14000	18500
A: 240/25	250/25	250/25	280/35 MS04	280/50 MS11	280/70 MS20
B: 240/30	240/30	240/30	240/30 MS06	240/35 MS13	220/45 MS22

CLOUD:

SCT ST 1000/3000 SW SLOPES, BKN RANGES TILL 02Z
SCT CUSC 5000/7000 RANGES/SLOPES, BKN SLOPES IN S
SCT CU 4000/7000 SEA/COAST

WEATHER:

ISOL SHOWERS RANGES/W SLOPES S OF 35S
ISOL SHOWERS SEA

VISIBILITY:

5000M SH

FREEZING LEVEL:

6000 S OF 35S / 9000 IN N

ICING:

MOD IN CU TOPS

TURBULENCE:

MOD BLW 10000 RANGES

Area Forecast 4

ARFOR: AREA 21

OVERVIEW:

WEAK SURFACE TROUGH EXPECTED AT 02Z THROUGH YSWG/YORB, THROUGH YPKS/YMRY AT 07Z AND THROUGH YBTH/YSNW AT 11Z.

SUBDIVISIONS:

- A: E OF TROUGH
- B: W OF TROUGH

WIND:

2000	5000	7000	10000	14000	18500
A: 240/25	250/25	250/25	280/35 MS04	280/50 MS11	280/70 MS20
B: 240/30	240/30	240/30	240/30 MS06	240/35 MS13	220/45 MS22

CLOUD:

SCT ST 1000/3000 SW SLOPES, BKN RANGES TILL 08Z
SCT CUSC 5000/7000 RANGES/SLOPES, BKN SLOPES IN S
SCT CU 4000/7000 SEA/COAST

WEATHER:

ISOL SHOWERS RANGES/W SLOPES S OF 35S
ISOL SHOWERS SEA

VISIBILITY:

5000M SH

FREEZING LEVEL:

- A: 8000
- B: 9000

ICING:

MOD IN CU TOPS

TURBULENCE:

MOD BLW 10000 RANGES

Area Forecast 5

ARFOR: AREA 21

OVERVIEW:

ISOLATED SHOWERS ALONG COAST WITH AREAS OF LOW CLOUD TILL 04Z. PATCHY RAIN NORTH OF YORG/YSSY. ISOLATED FOG RANGES/EAST TILL 23Z.

WIND:

2000	5000	7000	10000	14000	18500
A: VRB/15	260/15	260/15	260/25 ZERO	270/30 MS 08	270/40 MS17

CLOUD:

BKN ST 1000/3000 SEA COAST TILL 04Z
BKN ST 3000/5000 RANGES IN E TILL 02Z
CUSC 3000/8000 SEA COAST ISOL TOPS SEA 20000
SCT CUSC 4000/8000 RANGES, BKN IN S AND E
SCT SC 5000/8000 W SLOPES
BKN ACAS ABV 11000

WEATHER:

SH IN E. PATCHY RAIN N OF YORG/YSSY
OSIL FOG RANGES AND E TILL 23Z

VISIBILITY:

10000

FREEZING LEVEL:

6000 S OF 35S / 9000 IN N

ICING:

MOD IN CU/AC

TURBULENCE:

MOD IN CU/AC

CRITICAL LOCATIONS (HEIGHTS ABV MSL)

MT VICTORIA: BKN SC 4000
FM23 5000 SH BKN CU 5000

BOWRAL: 0500 FOG
FM22 5000 BKN ST 3000
FM00 8000 BKN SC 4500

Area Forecast 6

ARFOR: AREA 22

OVERVIEW:

THUNDERSTORMS WITH HAIL DEVELOPING IN W AREA 22 EXTENDING E. SCATTERED SHOWERS/DRIZZLE WITH WIDESPREAD LOW CLOUD, BECOMING SCATTERED IN NW. ISOLATED SEVERE TURBULENCE BELOW 8000
REFER: SIGMET FOR LATEST DETAILS OF SEVERE ICING

WIND:

2000	5000	7000	10000	14000	18500
A: 270/40	270/35	260/40	270/45 MS10	270/50 MS18	260/60 MS28

CLOUD:

OCNL CB 2500/28000 W AREA 22 EXTENDING E
BKN ST 0800/3000 BECOMING SCT NW
BKN CU 2500/15000

WEATHER:

TS HAIL SH/DZ

VISIBILITY:

4000 SH/DZ/TS

FREEZING LEVEL:

4000S/5000N

ICING:

REFER SIGMET

TURBULENCE:

ISOL SEVERE BLW 8000

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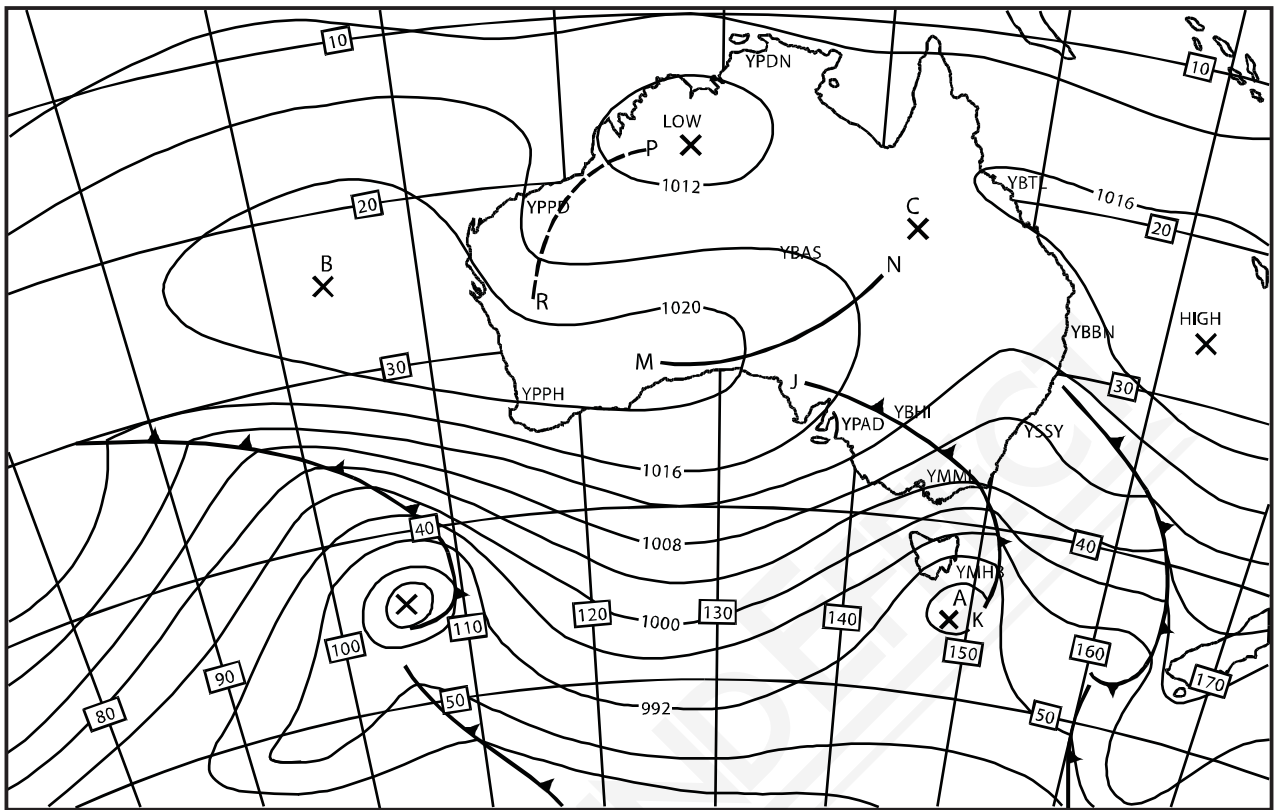


Figure 1

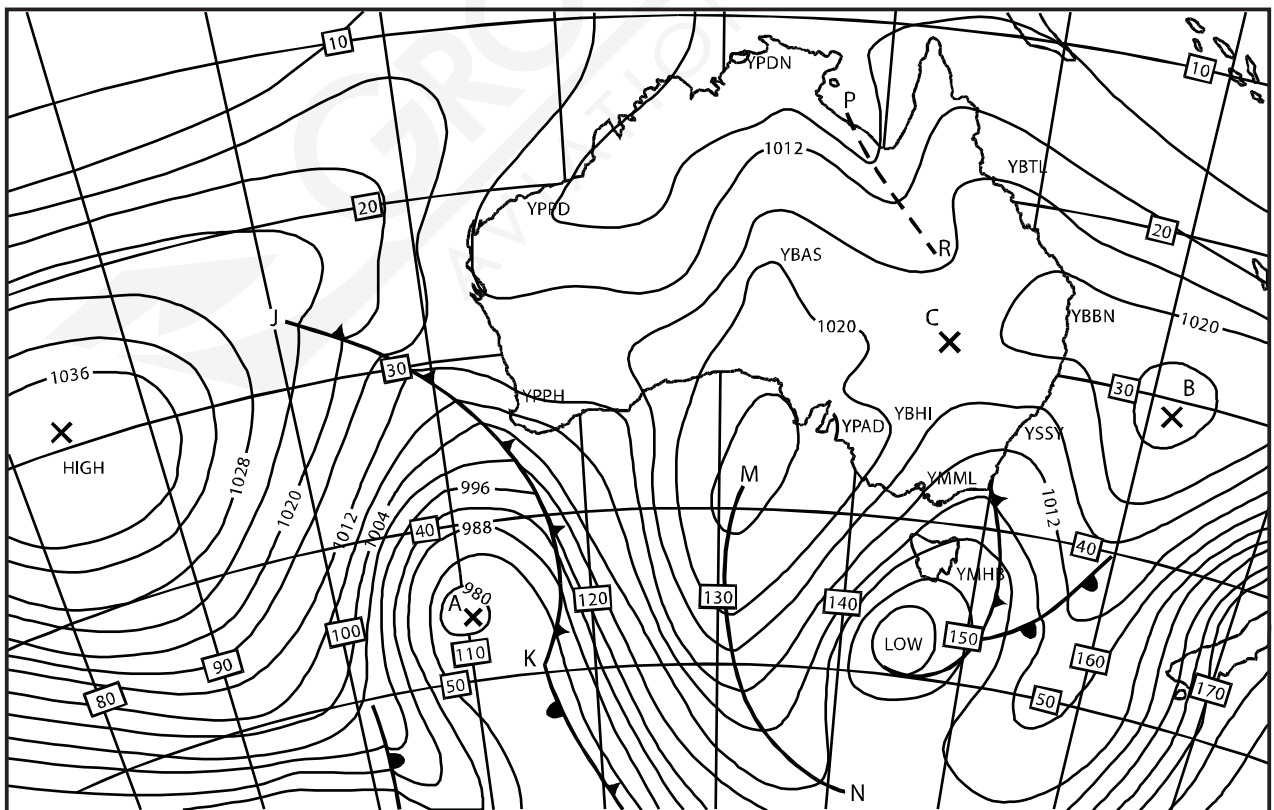


Figure 2



Credits

The content of this workbook was created and written by Matt Rayson, a highly experienced flight instructor and charter pilot. Matt and the team at Ground Effect Aviation are proud to offer this series of examination preparation books to all Australian aviation students and wish everyone the best of luck with their studies.

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