



Ceiling and Visibility for Aerodromes

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Session Outline

0500 UTC – Introduction

0510 UTC – Overview of Ceiling and Visibility

- Session Recap
- Open Discussion

0530 UTC – The Forecast Process

- Session Recap
- Open Discussion
- Case Study Discussion

0555 UTC – Process for Effective Weather Watch

- Session Recap
- Open Discussion
- Case Study Discussion

0620 UTC – Wrap Up



Session Outline

1000 UTC – Introduction

1010 UTC – Overview of Ceiling and Visibility

- Session Recap
- Open Discussion

1030 UTC – The Forecast Process

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1055 UTC – Process for Effective Weather Watch

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1120 UTC – Wrap Up





Overview of Ceiling and Visibility

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Session Recap

Overview of Ceiling and Visibility

- Definitions of Ceiling and Visibility
- Ceiling and visibility hazards to operators
- Most common causes of low ceiling and visibility:
 - Cloud,
 - Fog/Mist
 - Precipitation
 - Smoke
 - Dust
 - Haze

Questions?



Open Discussion

What specific hazards are you most challenged with?

- Which of the following would you rank as most challenging to forecast for: cloud heights, fog/mist, precipitation, smoke, dust, haze?
- Do they differ to what I presented?
- What tools/methods are most effective in forecasting for those hazards?

What are some unique operating requirements your customers have?

- What challenges are your customers faced with?
- How do you meet their needs?





The Forecast Process

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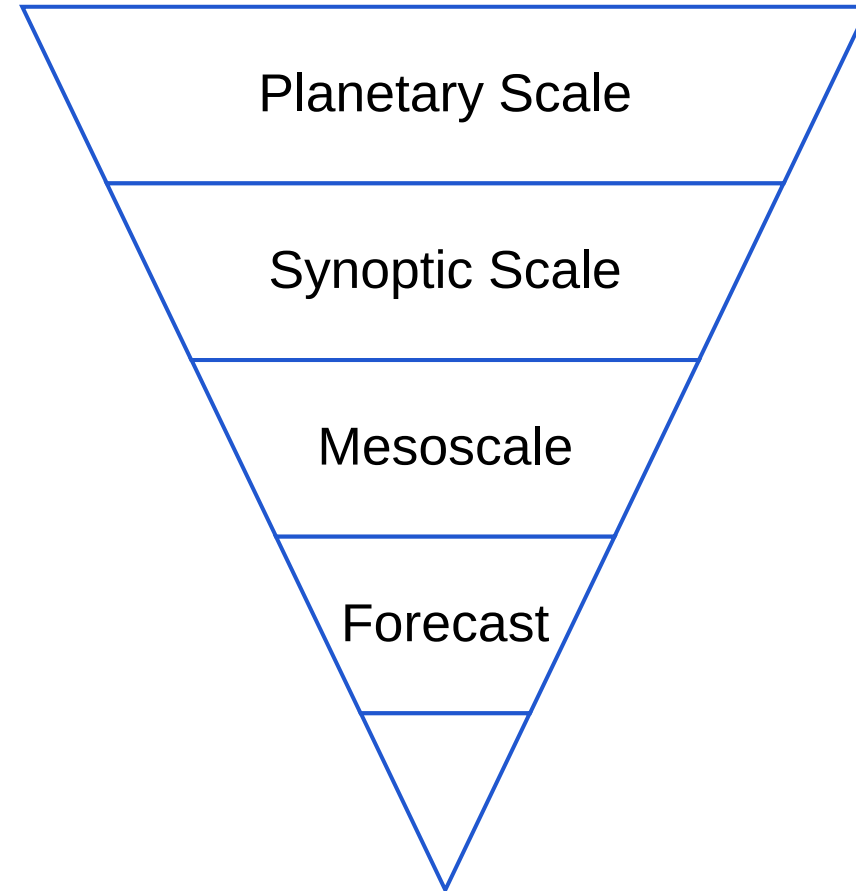


Session Recap

The Forecast Process

- Going through the forecast funnel
 - Planetary Scale,
 - Synoptic scale,
 - Mesoscale
- Ground truthing
- Aerodrome Operating Minima
- Adding value as a meteorologist
- Verification

Questions?



Open Discussion

What forecast methods do you use?

- Do they differ to what I presented?
- How do they apply to your context?

What data analysis challenges do you face?

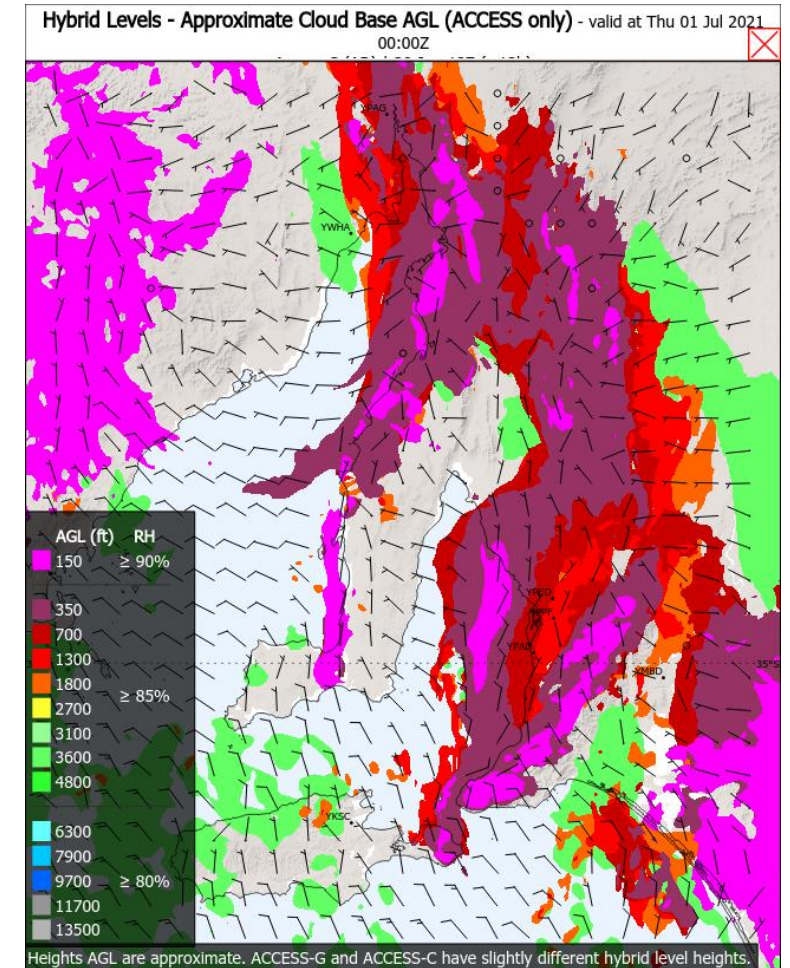
- How do you overcome them?
- How do others overcome them?

Where do you add most value as a meteorologist?

- Where do you currently have the most input?
- What actions add the most value for your customers?

How do you perform verification?

- What verification activities have led to improvements in the forecast process?
- What verification activities have led to improvements in the numerical weather prediction data?





Process for Effective Weather Watch

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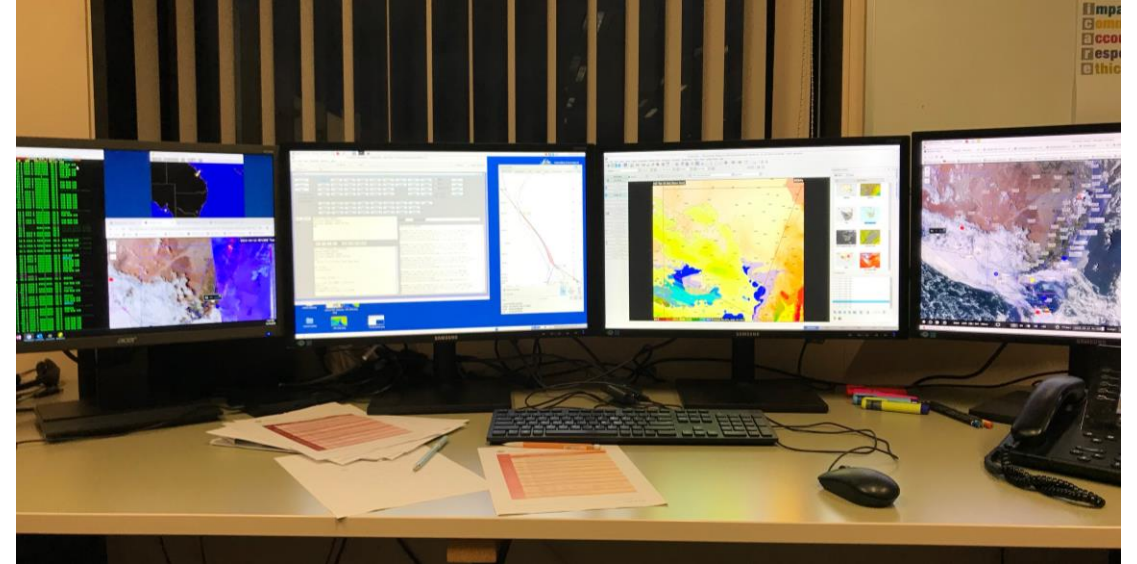


Session Recap

Process for Effective Weather Watch

- Maintaining situational awareness
- Proactive vs reactive weather watch
- Strategies to monitor incoming observations
- Comparing products to observations
- Validating data
- Sending amendments

Questions?



Open Discussion

How do you maintain situational awareness?

- What tools do you use?

What do you do to maintain proactive weather watch?

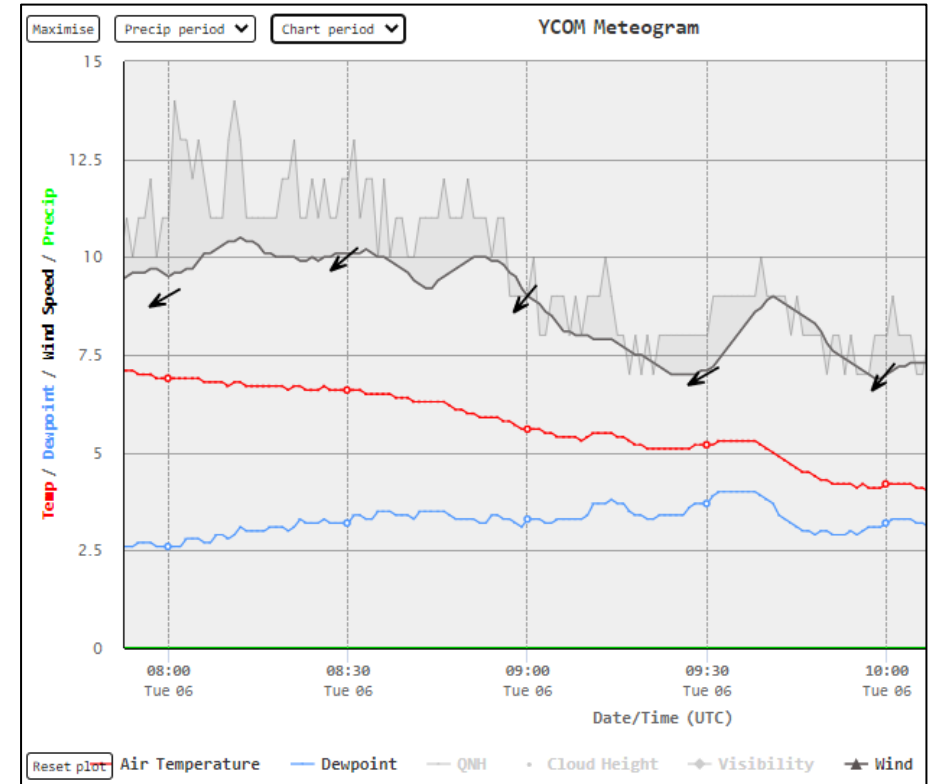
- Tips and tricks to share?
- Benefits of proactive weather watch in your context?

What are the key observations you use for ceiling and visibility?

- How do you review that data?
- How do you verify the accuracy of the data?

What challenges do you face in sending amendments?

- Do your customers receive the amendment in a timely manner?
- What situations are most challenging?





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Thank you!

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