Aviation Meteorological Forecaster Competency 2

Forecast Aeronautical Meteorological Phenomena and Parameters

<u>High-Level</u> <u>Significant weather chart</u> <u>Convective cloud</u> AMF AC 2.1.4, 2.1.8, 2.2 and 2.3

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Weather Service

2022/03/04^{Templ} ref: CRS–CC-PRES-TEMP-003.2 Doc Ref no:RTC-PRE-031.2_High Level Significant Weather Charts

AIM OF THIS PRESENTATION

Before reviewing this presentation ensure to first consult the following theory presentation to enable better understanding:

<u>RTC-PRE-036 AMF AC 2.1.5 3.1.1 3.1.5 3.2 Forecast and Warn of Hazardous Phenomena CB and Thunderstorms</u>

At the end of this presentation, you will be able to:

- Compile <u>high significant weather chart</u> and use it to demonstrate competency in <u>AMF AC</u> <u>2.1.4, 2.1.8, 2.2 and 2.3</u> – Forecast convective cloud, format and consistency across boundaries.
- Complete weekly quizzes related to Significant weather charts using this presentation as an example.
- Be familiar with <u>Aviation Software</u> used to construct low- and high-level significant weather charts.



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High-level significant weather chart

Example Task for Case Study 20 Oct 2018: Construct a high-level significant weather chart, issued at 08Z, valid for 12Z

When completing the high-level significant weather chart:

- Ensure you copy all cloud with <u>xxx tops</u> (clouds with tops > 18000 ft) and their associated boundaries to the high-level significant weather chart.
- High level cloud boundaries for CB need to be the same as the CB boundaries in the low-level chart.
- CB cloud top heights were obtained from the Tephi/Skew-Ts (FL390).
- Cloud base height of CB,s will be marked with xxx to indicate that the base are in the low-level chart.



Copy boundaries and clouds from low to high-level sigwx chart (AMF AC 2.1.4)



Edit and move boundaries on high-level significant weather chart (AMF AC 2.1.4)



Edit the cloud top height and change the cloud base to xxx (AMF AC 2.1.4)



References

- Latest edition of RTC-CN-020_Aviation Practical Course Notes
- RTC-PRE-036_AMF AC 2.1.5_ 3.1.1_3.1.5_3.2_Forecast and Warn of Hazardous Phenomena_CB and Thunderstorms



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