Aviation Meteorological Forecaster Competency 3

Warn of Hazardous Weather Phenomena

SIGMET Case Study AMF AC 3.1.1, 3.1.3, 3.2 and 3.3

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AIM OF THIS PRESENTATION

Before starting this practical AMF task presentation, review the following theory presentation:

RTC-PRE-085_AMF AC 3.2_Warn of Hazardous Phenomena_Formats

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

- Compile warnings for SIGMET and use it to demonstrate competency in <u>AMF AC 3.1.1</u>, <u>and 3.1.3 Thunderstorms and Turbulence</u>
- Compile warnings for SIGMET in the correct format and consistent across boundaries to demonstrate competency in <u>AMF AC 3.2 and 3.3</u>
- **Complete** weekly quizzes related to the issue of SIGMET warnings using this presentation as an example.
- Construct SIGMET warnings charts electronically for submission using the MS Word programme



Introduction

Example Task for Case Study 20 Oct 2018:

- Issue any <u>SIGMET</u> warnings and <u>graphically depict them electronically</u> for the Johannesburg and Cape Town FIR <u>issued at 08Z valid up to 12Z</u> in the correct format (AMF AC 3.2) on 20 Oct 2018 (AMF AC 3.1.1, 3.1.2).

Ensure the warnings are consistent across both FIR of responsibility (AMF AC 3.3).

- If necessary, **update or cancel existing SIGMET** warnings for 20 Oct 2018 or issue new ones.

Start by first considering if any SIGMET warnings were observed at 08Z and then whether they need to be extended to 12Z – Refer to Competency 1 where the observed part would have been addressed.



SIGMET issued at 08Z and valid from 08Z to 12Z (JOHANNESBURG FIR) for convection, severe turbulence and severe icing

- Consider Competency 1 and what SIGMET you observed in the analysis and diagnosis of the weather situation at 08Z.
- You issued a low level and high level significant weather chart valid for 12Z in competency 2 which provides you with the 4 hour nowcast of your SIGMET.

FAJA (JOHANNESBURG)

FAJA SIGMET <u>A01</u> VALID 201000/201200 FAOR-FAJA JOHANNESBURG FIR <u>EMBD TS</u> FCST WI MAP TOP FL390=

FAJA (JOHANNESBURG)

FAJA SIGMET <u>B01</u> VALID 201000/201200 FAOR-FAJA JOHANNESBURG FIR <u>SEV TURB</u> FCST WI MAP FL140/180 NC=

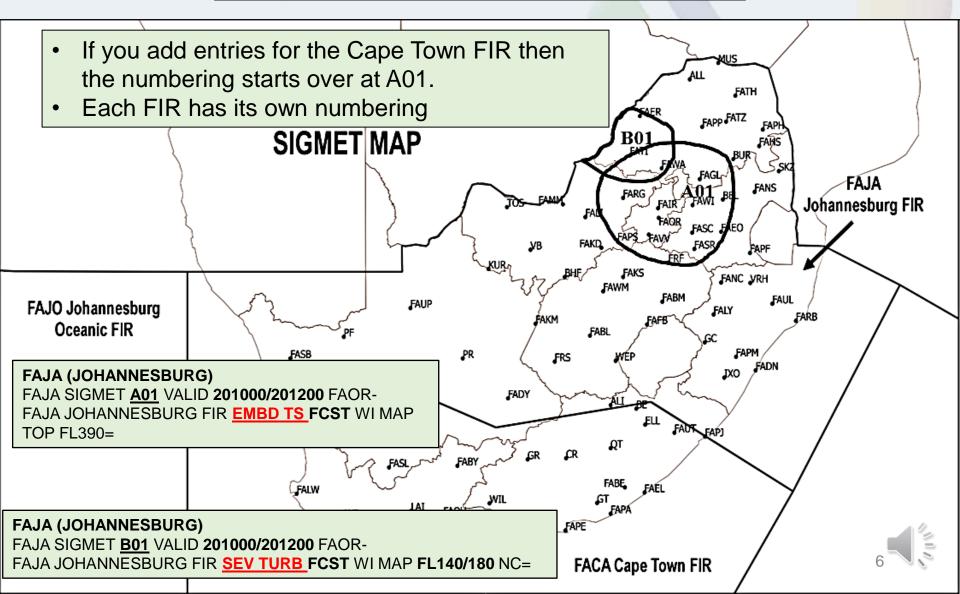


SIGMET issued at 08Z and valid from 08Z to 12Z (CAPE TOWN FIR) for convection, severe turbulence and severe icing

NIL for this case



Depict SIGMET AREA and Alphabet reference



References

- <u>Latest edition of RTC-CN-020_Aviation Practical</u>
 <u>Course Notes</u>
- RTC-PRE-085_AMF AC 3.2_Warn of Hazardous Phenomena_Formats

