Augumented Reality

Weather Technology in the Cockpit

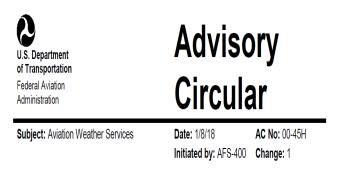


Project Manager: Gary Pokodner

10/17/2018

Augmented Reality

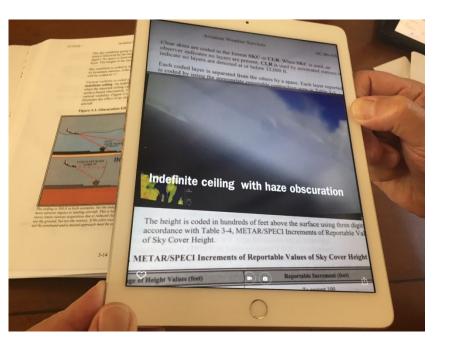
- WeatherXplore is an Augmented Reality application available for free download from Apple ITunes and Google Play store and Layar.
- The app works with the camera in your phone or tablet to display interactive content over printed images or real life objects.



PURPOSE OF THIS ADVISORY CIRCULAR (AC). This weather products and services. It provides details when neces usage. This publication supplements its companion manual, *A* which documents weather theory and its application to aviatic to bring the pilot and operator up-to-date on new and evolving capabilities to help plan a safe and efficient flight, while also weather products that remain.









Printed Images Become Interactive

- Link images from advisory circulars, handbooks or notes to the respective URL such as interactive PIREPS
- Images can be used from the Advisory Circulars or download the "What can I scan booklet" at:

-1.

<u>https://mobileapps.tietronix.com/WeatherXplore/.</u>

PEGASAS Who we are:

The Partnership to Enhance General Aviation Safety. Accessibility and Sustainability (PEGASAS) is a Federal Aviation Administration (FAA) Center of Excellence for General Aviation. The mission of PEGASAS is to enhance general aviation safety. accessibility. and sustainability by partnering the FAA with a national network of world-class research educators and industry leaders. <u>https://www.negasas.aero</u>

The WeatherXplore demo app was funded by PEGASAS WTIC program. Designed by Western Michigan University and developed in partnership with Tietronix Software. Industry partners include Fly8MA.com and NAFL

Connect digital content with aviation educational material to compliment FAA Aviation Weather Services Advisory Circular <u>AC 0045-H chg. 1</u> and the FAA Aviation Weather Advisory Circular <u>AC-068</u> to aid in the correlation of weather subjects.

- Make your printed content come alive.
- Overlay video, 3D models, training modules, or URL links.
- Help your students correlate real weather experiences with text book explanations.
- Currently available for use with FAA AC0068 and AC00-45H chg.1.

For more information or feedback please contact

Email: lori.brown@wmich.edu



Augmented Reality APP for Aviation Weather Sponsored by the Federal Aviation Administration Weather Technology in the Cockpit (WTIC)

WeatherXplore



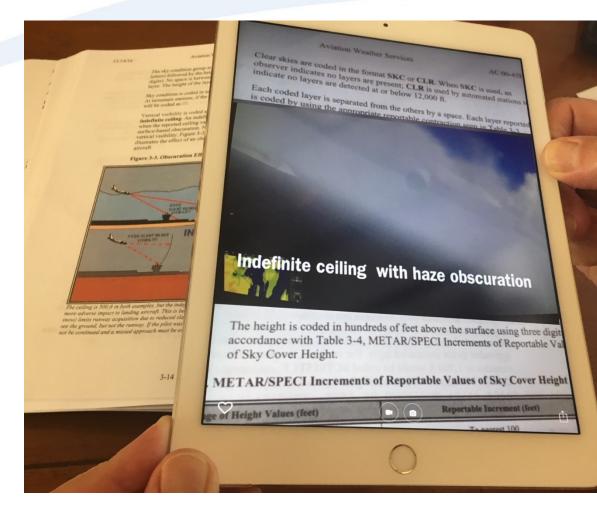
AUGMENTED REALITY APP FOR AVIATION WEATHER Enhancing printed aviation weather education



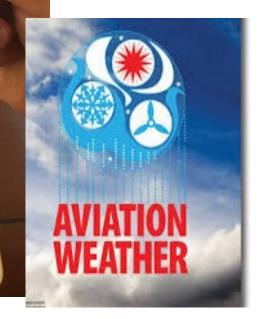




Overlay Educational Video



Overlay digital content onto real world objects or printed media





Link Video to Printed Images

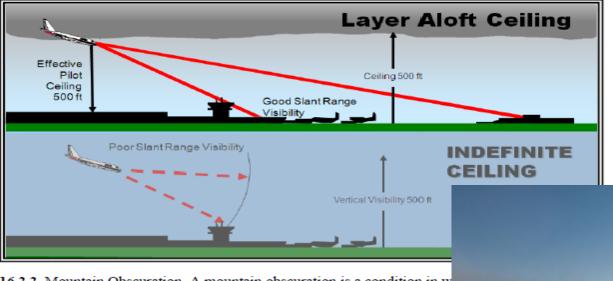


Figure 16-6. Layer Aloft Ceiling Versus Indefinite Ceiling

16.2.2 <u>Mountain Obscuration</u>. A mountain obscuration is a condition in w or mountain ridges are obscured due to clouds, precipitation, smok obscurations.

Ceiling type can effect slant range visibility





Link to Educational Modules



VisEst_1.1_Sec 3

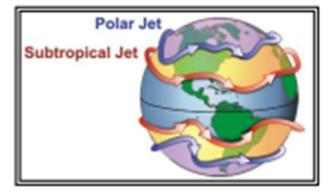




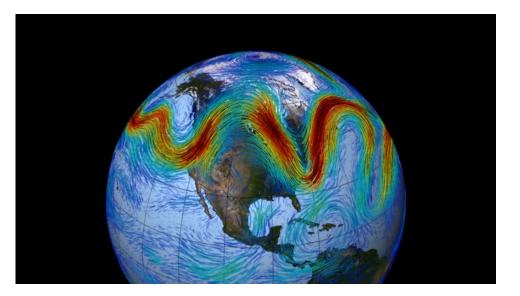


Partner to create overlay content

Figure 8-5. Polar and Subtropical Jet Streams



NASA Content Example







Partner to create overlay content

