
Appendix 2 – CAWAP EXPERIMENTAL DATA – NASA/TP-2001-210629/SUPPLEMENT

by

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A2.1 SUMMARY

Flight surface flow data of various types for the F-16XL-1 aircraft, employed in the Cranked Arrow Wing Aerodynamics Project (CAWAP), are available.

A2.2 INTRODUCTION

The CAWAP flight data are unclassified and unrestricted and also available for purchase. This is unusual for such a modern fighter but was accomplished because the aircraft was on loan to NASA from the US Air Force. Moreover, all the research flights were conducted with the intent that the flight flow physics data be unrestricted, even available over the web with a customized search engine.

The data are published on a separate CD cited as [3-7] in Chapter 3 and which is a supplement to [3-2] of that chapter. The supplement provides:

- 1) Tabular data of the Flight Conditions from Table 5;
- 2) Boundary layer data from Table 12 for three flights in multiple formats;
- 3) Skin-friction data – *xmgr* format – used to generate Figure 26;
- 4) Surface pressure data with a listing of the parameters; and
- 5) Tuft-images from three cameras in two formats.

This CD may be purchased from:

NASA STI Help Desk
NASA Center for AeroSpace Information
7115 Standard Drive
Hanover, MD 21076-1320
USA

A2.3 CONCLUSIONS

The flight data of surface pressures and flow-fields patterns, along with available boundary-layer profiles and skin friction data, may be obtained on a CD.

