ATMOS Program
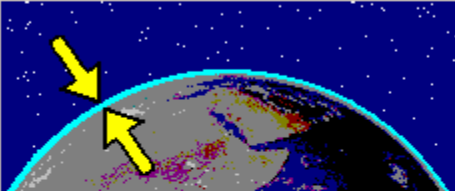

Example Screen

Version 1.0

January 2003

Standard Atmosphere (ATMOS) Program

Using the Temperature pull-down menu, the user can select from four different temperature profiles: standard day, hot day, cold day, and tropical day.

ATMOS – U.S. Standard Atmosphere, 1976

File   Help   Temperature   Units

Variation of properties with altitude in a STANDARD atmosphere , with Cp/Cv = 1.4

enter altitude h = 0.0000 kft

OK

pressure P	14.695	lbf/in²	P/Pstd	1.0000
temperature T	518.67	°R	T/Tstd	1.0000
density rho	7.64669E-02	lbm/ft3	rho/rho-std	1.0000
speed of sound a	1116.5	ft/s	a/a-std	1.0000
absolute viscosity mu	3.73672E-07	lbf-s/ft²	mu/mu-std	1.0000
kinematic viscosity nu	1.57225E-04	ft²/s	nu/nu-std	1.0000
thermal conductivity k	3.90392E-06	BTU/s-ft-°R	k/k-std	1.0000