

Providing
Fully Integrated
Solutions For:

- System Developers
- Rapid Prototyping



AERALIB®

**Aviation System
Development Tool**

- *Basic Mathematical Algorithms*
- *Aircraft Intent and Position*
- *Weather Data Processing*



Aerospace

Aerospace Engineering and Research Associates, Inc.

4601 Presidents Dr. Ste. 230, Lanham, MD 20706

PH: (301) 459-4484 FAX: (301) 459-4486

Email: support@freeflight.com

Website: www.freeflight.com

Aerospace

Aerospace Engineering and Research Associates, Inc.

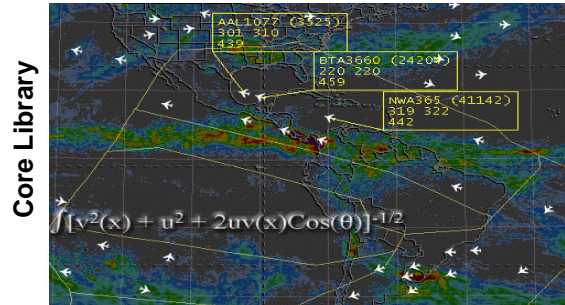


What Is AERALIB®?

AERALIB® is a proven product that is designed to meet both the R&D prototyping and operational system development needs of next generation aviation systems. Constructing applications from the **AERALIB®** object oriented libraries provides a highly productive environment for rapid prototyping. The same libraries can then be used to develop operational systems. This approach means that most of the prototype code may be passed onto the field implementation without sacrificing anything in operational requirements.

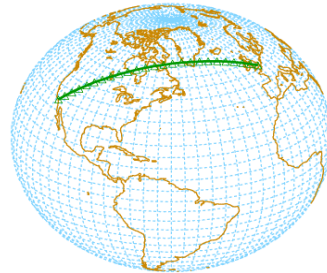
With more than 115 license agreements in place in 15 countries, **AERALIB®** is the most popular and productive product of its kind on the market.

AERALIB® Consists of Three Major Libraries



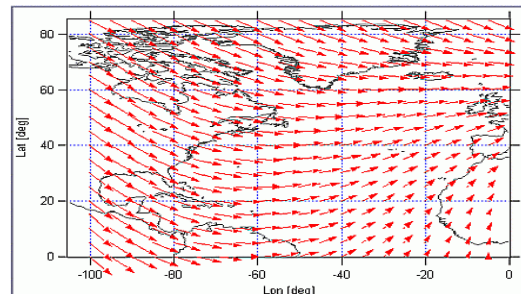
Provides tools for solving problems in applied mathematics, spherical geometry, kinematics, navigation and related areas.

Trajectory Library



Introduces data abstractions and functionality related to common air traffic applications (flight, aircraft position, airspace).

Weather Map Library



With classes to represent, manipulate and use the wind and/or temperature data; pixel-mapped on a screen display.



Features and Benefits

- Reduces the cost and schedule risk of development projects
- Improves product quality
- Improves interoperability

AERALIB® permits high-fidelity use of the following:

- All airspace structures such as Control Sectors, ARTCC boundaries, SUAs, terminal configurations, routes, etc.
- Separation criteria as a function of altitudes, proximity to airports, oceanic
- Winds aloft and weather modeling
- Goal modeling for optimized flights

Aerospace

Aerospace Engineering and Research Associates, Inc.

4601 Presidents Dr. Suite 230, Lanham, MD 20706

PH: (301) 459-4484 FAX: (301) 459-4486

Email: support@freeflight.com

Website: www.freeflight.com

Aerospace

Aerospace Engineering and Research Associates, Inc.