

Global Lightning Data Integration (GLDI)

PROGRAM/PROJECT:

LEAD AGENCY/COLLABORATING AGENCIES: Sonalysts, Inc.

LEAD AGENCY POINT OF CONTACT: Rip Coleman, Vice President, Aviation and Weather Analysis Systems, Sonalysts, Inc., 860-442-4355, coleman@sonalysts.com

PROGRAM POINT OF CONTACT: Same as above.

SERVICE AREA (S)/INITIATIVE (S)

- *National Aviation Weather Initiatives:*
2: 9

FUNDING

- *Programmed/Planned (\$'s/FY):* /FY03 /FY04

TYPE OF PROGRAM/APPLICATION

R&D/Prototype Demonstration

SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc:* a means of collecting and integrating lightning data from around the world with all other international geo-referenced data sets.
- *How operations will be changed/improved:* determination of severity of convection over remote areas, e.g. Central Pacific Ocean, will be enhanced by fusing lightning data with existing data like satellite imagery. This will directly impact the accuracy of convection and turbulence advisories provided to international flight crews.

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* N/A
- *Program/Project verification process:* Internal, Sonalysts, Inc. Full process includes initial requirements and design specification, coding, test case/plan development, integration testing, and user-conducted alpha/beta testing prior to release. For new products there is also provision for conducting numerous case studies to ensure the accuracy of new data as it is integrated with a virtually unlimited set of worldwide, geo-referenced data sources. Every aspect of software development at Sonalysts, Inc. is conducted under strict configuration management and all code is extensively documented.
- *Method used for end product validation:* As described above, Sonalysts, Inc. software engineering process includes extensive validation testing before implementation.
- *Operational training for the user:* Provided for all wXstation® products including StormTraX®. Initial and recurring classroom and hands on training.

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* N/A
- *Program becomes operational:* N/A
- *Plans for further improvements:* N/A