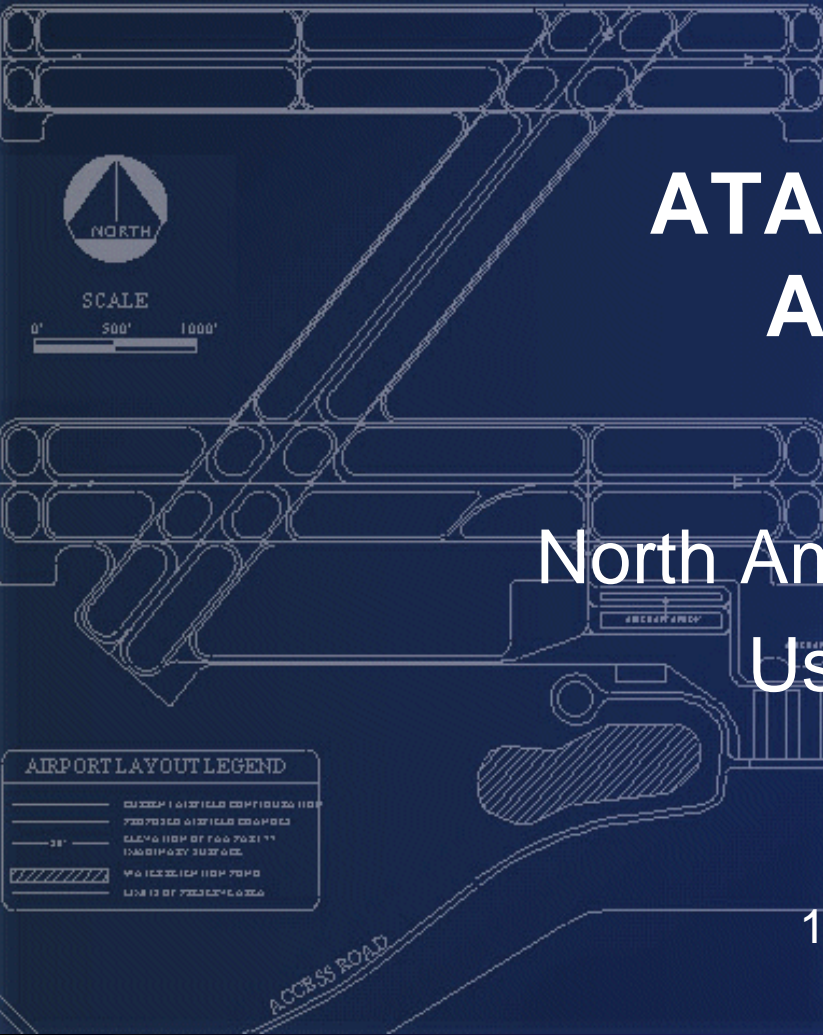


ATAC SIMMOD Activities

North American SIMMOD Users Group

Atlanta, GA
16 March 2006



General News

- Simmod *PLUS!* version 7.1 released in July 2005
 - Significant refactoring of code from version 6.2
 - Streamlined software framework and logic
 - Eases software maintenance
- Only minor changes since...
 - Patch to update to version 7.1.1 released in October 2005
 - Patch to update to version 7.1.2 release in May or June 2006

Simmod *PLUS! / PRO!* Maintenance

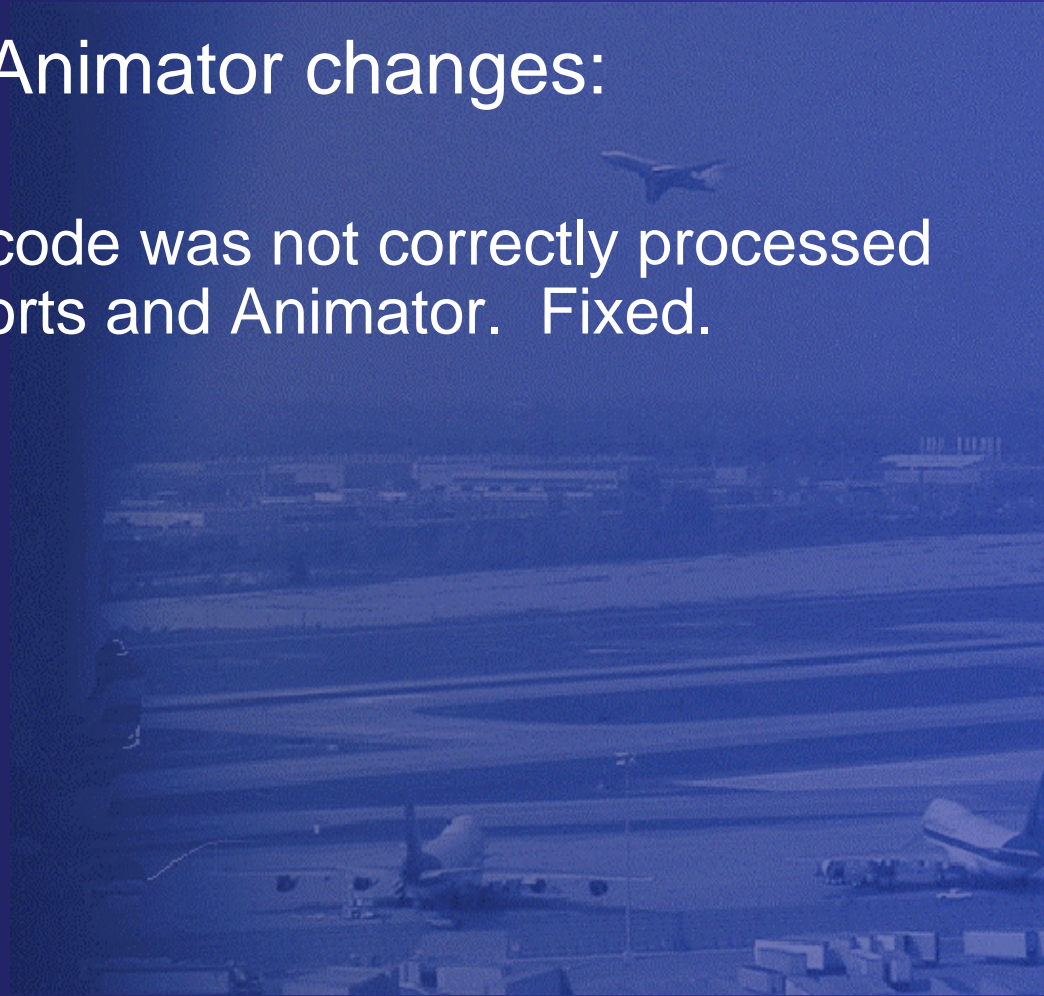
Network Builder and Animator changes:

1. A few minor changes to increase algorithm efficiencies.
2. An optional column header row has been added to the SIMU26 reports.
3. The field validation logic would not accept the valid input of 3 for the global variable `use_depq_hold_codes`. Fixed.

Simmod *PLUS!* / *PRO!* Maintenance

Network Builder and Animator changes:

4. The SIMU26 QA code was not correctly processed in the output reports and Animator. Fixed.



SIMMOD Engine Maintenance

Ground logic change:

1. Corrected the calculation of the acceleration for flights that used the `RUNWAY_TAKEOFF_OCCUPANCIES` inputs. In some situations, the accelerations would be too low.



SIMMOD Engine Maintenance

Airspace logic change:

1. In cases where additional stagger holding is applied due to downstream delays, the amount of additional stagger may have been too great (or indefinite). Fixed.



SIMMOD Engine Maintenance

Output logic changes:

1. The SW and SF codes were not being written for departure staging events. Fixed.
2. The `SIMU26` QA code was not correctly being written when the global variable `use_depq_hold_codes` was set to 1 or 3. Furthermore, departure queue delays that should have been attributed to the QA code were not being accumulated as such in `SIMU14`. Fixed.

SIMMOD Engine Maintenance

Currently working on new metering logic

Existing metering logic flaws:

- Does not adequately eliminate holding at nodes between the meter and post nodes
- Aircraft may pass each other or incur vector delay on subsequent links that prohibit these actions

ATAC SIMMOD User Base

177 users (including 64 Simmod *PLUS!* customers) have obtained the ATAC SIMMOD engine since the release of version 2.5 in October 2001. These users are from the following 35 countries:

Argentina	Denmark	Kazakhstan	Spain
Australia	Estonia	Malaysia	Sweden
Austria	France	Mexico	Taiwan
Bosnia and Herzegovina	Germany	Netherlands	Thailand
Brazil	Greece	Poland	Turkey
Canada	India	Russia	United Kingdom
Chile	Indonesia	Singapore	United States
China	Italy	South Africa	Vietnam
Croatia	Japan	South Korea	