

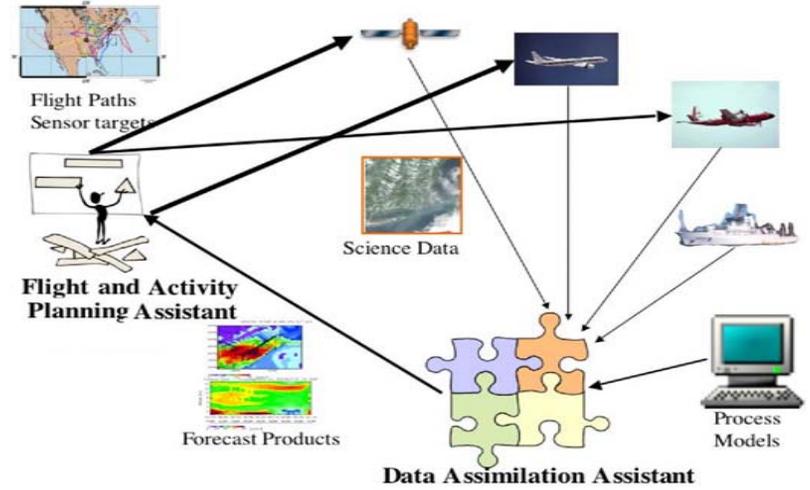


# Automated Data Assimilation and Flight Planning for Multi-Platform Observation Missions

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## Objective

- A Data Assimilation Assistant (DAA) that leverages INTEX measurements and other relevant data to produce data products for flight planning.
- Flight and activity planning assistant (FAPA) that uses the DAA data products and other information to produce flight plans.
- Visualization tool that enables scientists to see the effects of the FAPA and DAA.



**System Architecture**

## Approach

- Acquire relevant data and incorporate into the TOPS system (involves coordination with other Ames-led AIST NRA-05 project).
- Develop FAPA and DAA components.
- Modify and utilize Ames-developed visualization tool (Viz) to enable integration and display of FAPA and DAA data.
- Final integration of FAPA, DAA, TOPS, Viz.

## Key Milestones

- Develop scenarios for demonstration; acquire relevant data 3/07
- FAPA and DAA developed 6/07
- FAPA and DAA tested. 9/07
- Final system demonstration 12/07

## Co-Is/Partners

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