



The World's Forum for Aerospace Leadership

1st AIAA Sonic Boom Prediction Workshop

Sponsored by the Applied Aerodynamics Technical Committee

January 11, 2014

Weekend Preceding AIAA SciTech 2014

National Harbor, Maryland



Sonic Boom Prediction Workshop Objectives:

The objective of the First Sonic Boom Prediction Workshop is to assess the state of the art for predicting near field signatures needed for sonic boom propagation. Comparisons will be made between participant solutions on workshop provided grids. Participants are requested to apply their best practices for computing solutions on the provided geometries. There is particular interest in exploring refinement techniques including grid adaptation and alignment with flow characteristics. Impartial comparisons will be made between different solution schemes as well as with wind tunnel validation data for assessing the state of the art and identifying areas requiring additional research and further development

General Information:

- The workshop will be patterned after the successful AIAA Drag and HighLift Prediction Workshop series.
- Open to participants worldwide.
- An open unbiased forum intended to discuss results and promote cross-pollination of best practices.
- Test Cases based on:
 - Low Boom Body-of-Revolution (required).
 - 69° Delta Wing-Body (required).
 - Lockheed N+2 Configuration (optional).

Sonic Boom Prediction Workshop Organizing Committee:

Kenrick Waithe & Don Howe

Gulfstream Aerospace

Mike Park, Linda Bangert

NASA Langley

John Morgenstern

Lockheed Martin

Todd Magee & Eric Adamson

Boeing

Yoshi Makino

JAXA

Kelly Laflin

Cessna

Itham Salah El Din

ONERA

Gecheng Zha

Univ. of Miami

Important Dates:

July 1, 2013: Notice of Intent Due from Participants.

July 15, 2013: Acceptance Notification from Committee.

July 15, 2013: Submittal Forms Available.

Oct. 31, 2013: Participant Data Submittal Deadline.

January 11, 2014: 1st Sonic Boom Prediction Workshop

For more information:

<http://lbpw.larc.nasa.gov/>

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