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23rd AIAA International Space Planes and Hypersonic

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Abstract Air-breathing hypersonic vehicles are based on an airframe-integrated scramjet engine. The elongated forebody that serves as the inlet of the engine is subject to harsh aerothermodynamic loading, which causes it to deform. Unpredicted deformations may produce unstart, combustor chocking, or structural failure due to increased loads.

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Abstract. Since the beginning of the 1990s, the advent and success of US “cruise-missile diplomacy”¹ has resulted in the emergence of cruise missiles as a coercive political tool and a versatile military weapon. During the initial phase of the last two decades, cruise missiles were predominantly deployed by a select group of advanced industrial countries, in particular the United States.

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