

Perspective on DARPA Vertical Flight Initiatives

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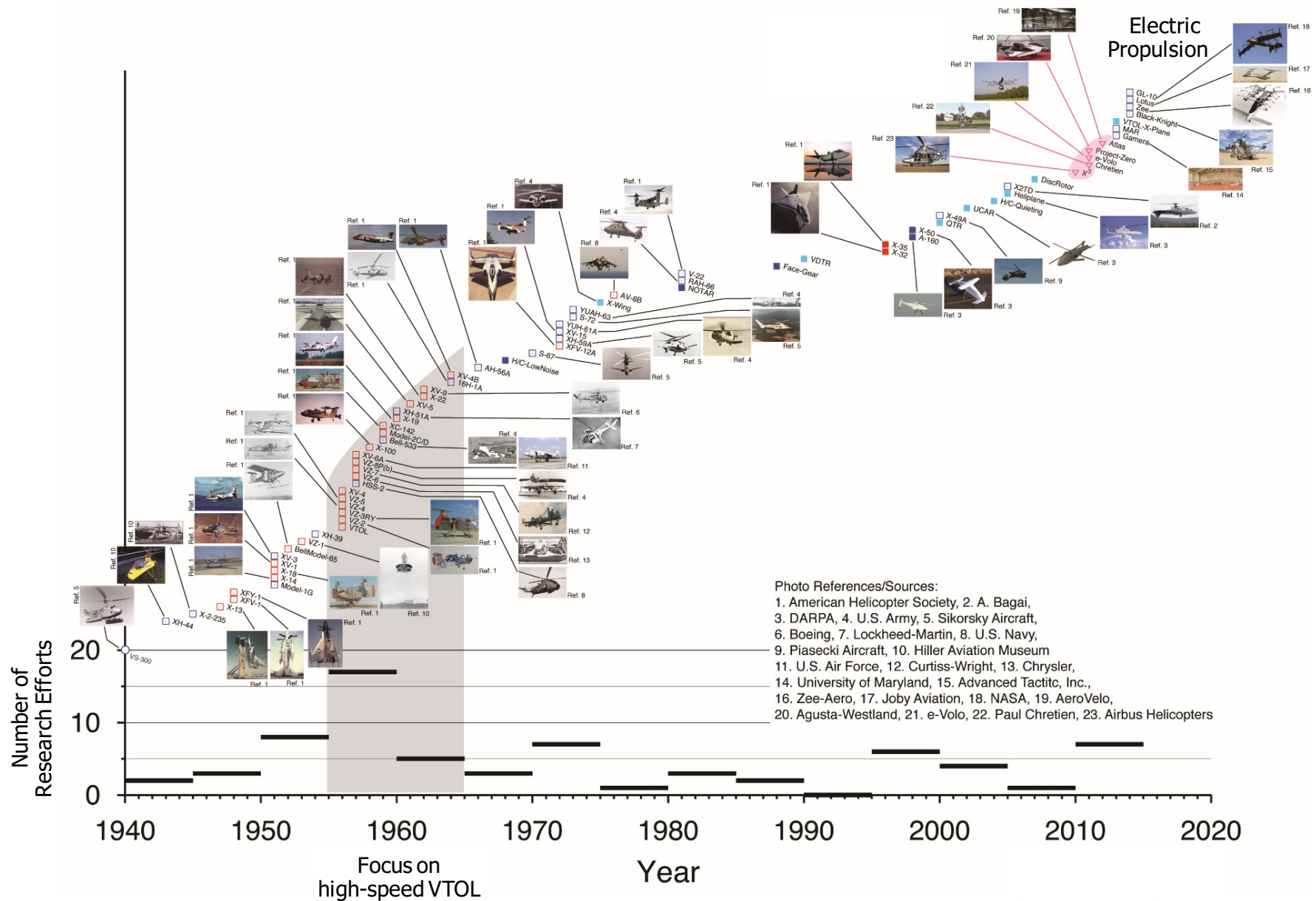
National Academy of Engineering
Irvine, CA

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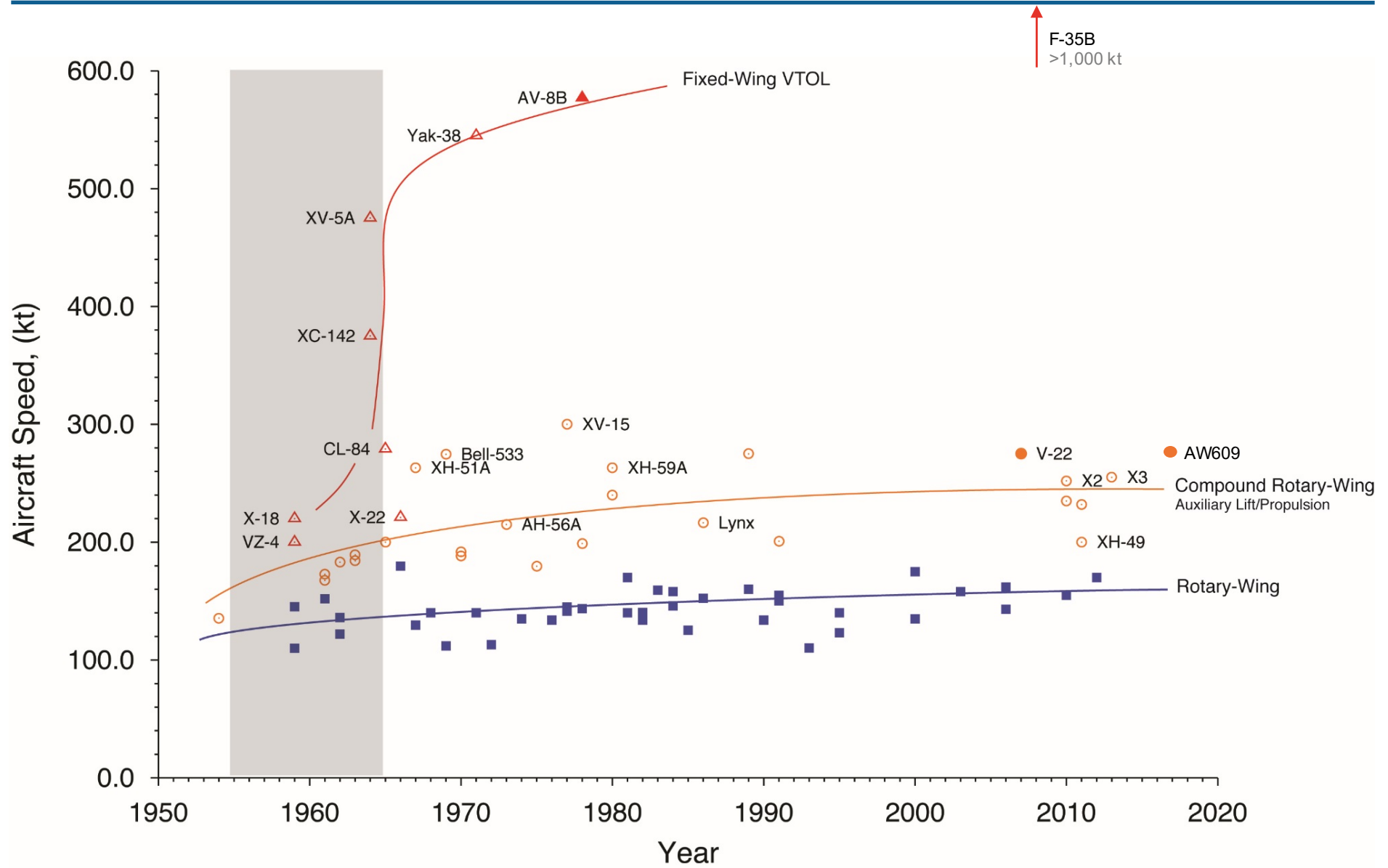
A Timeline of (US) VTOL X-Planes





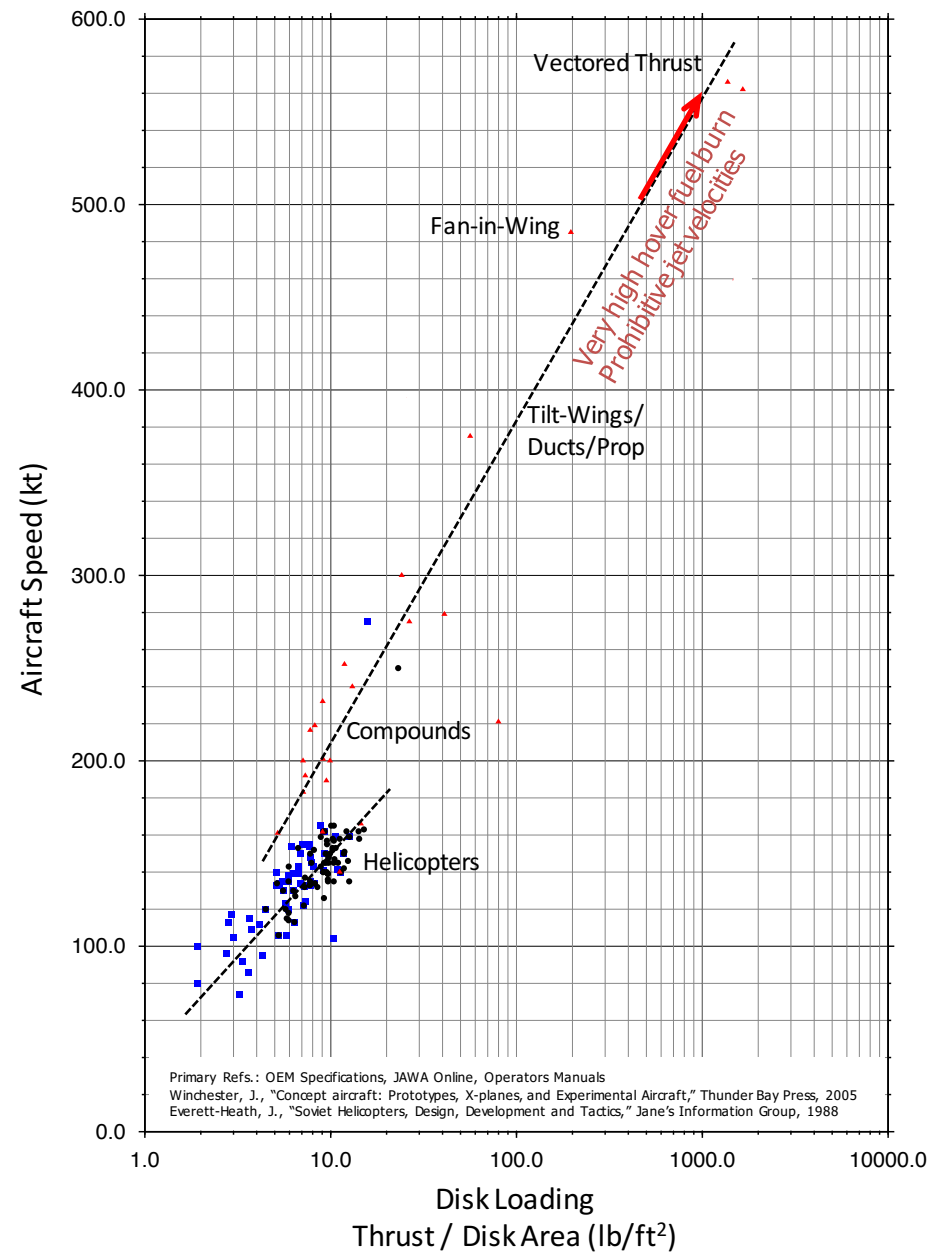
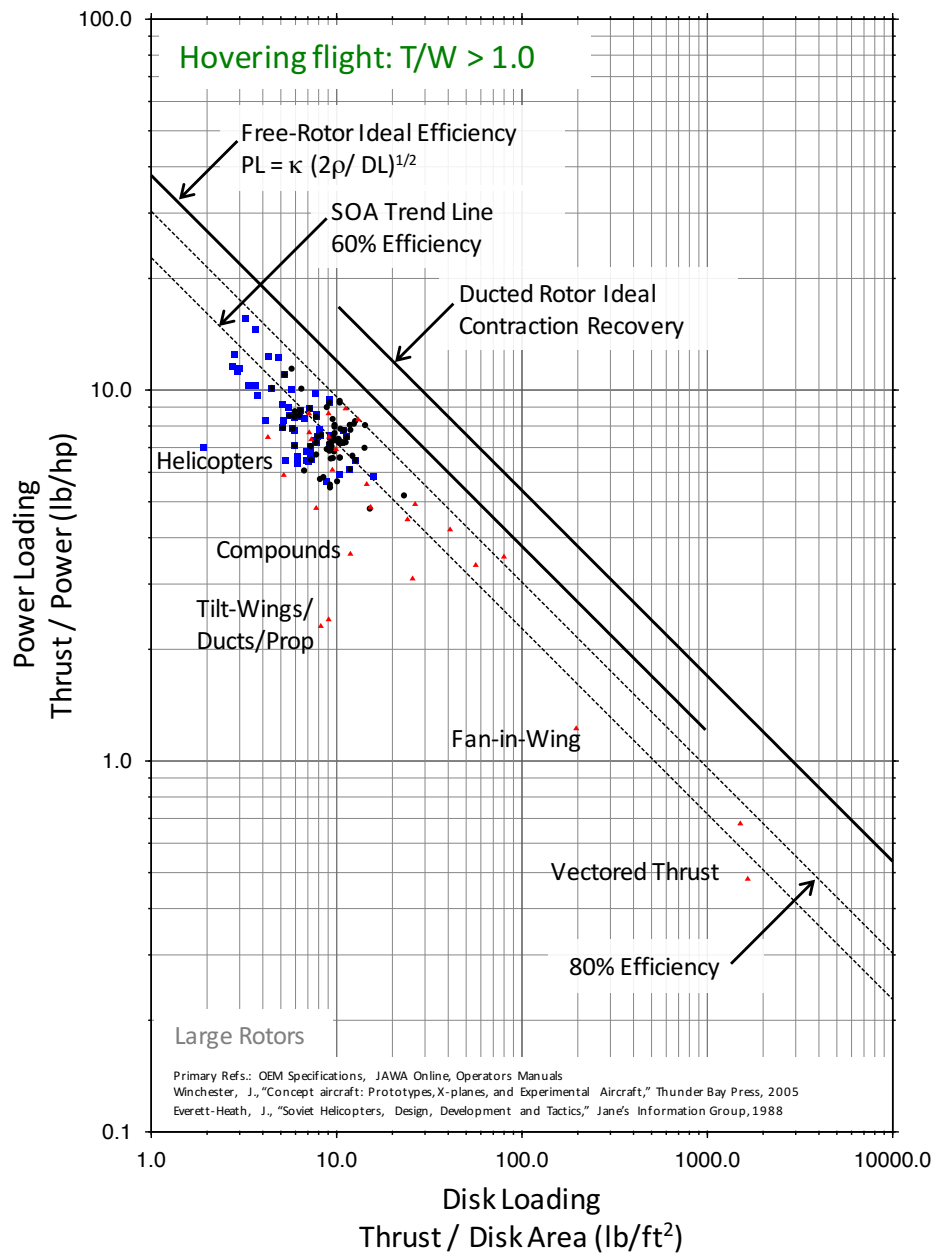


VTOL Speed – Historical Trends



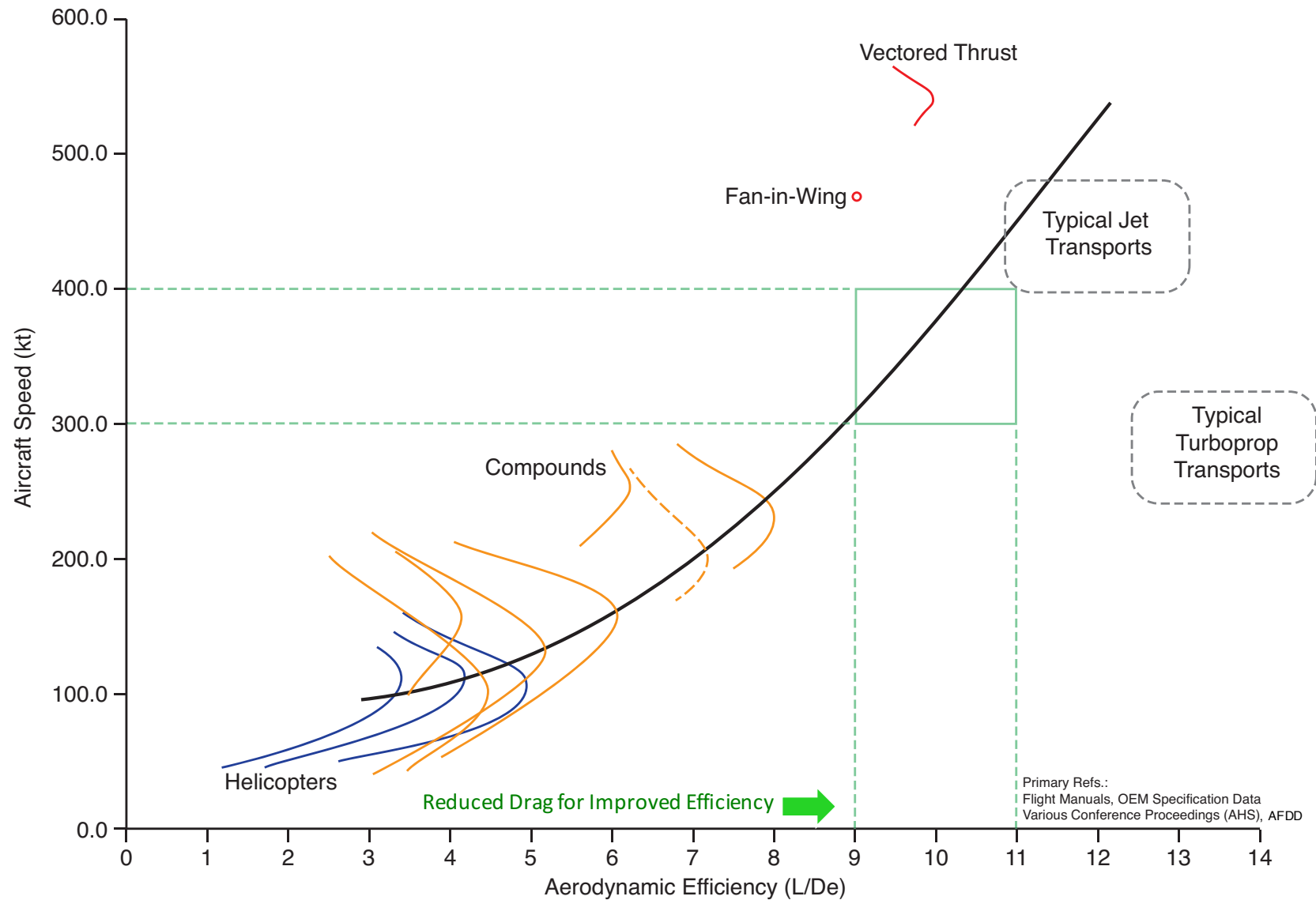


VTOL Hover and Cruise Efficiency



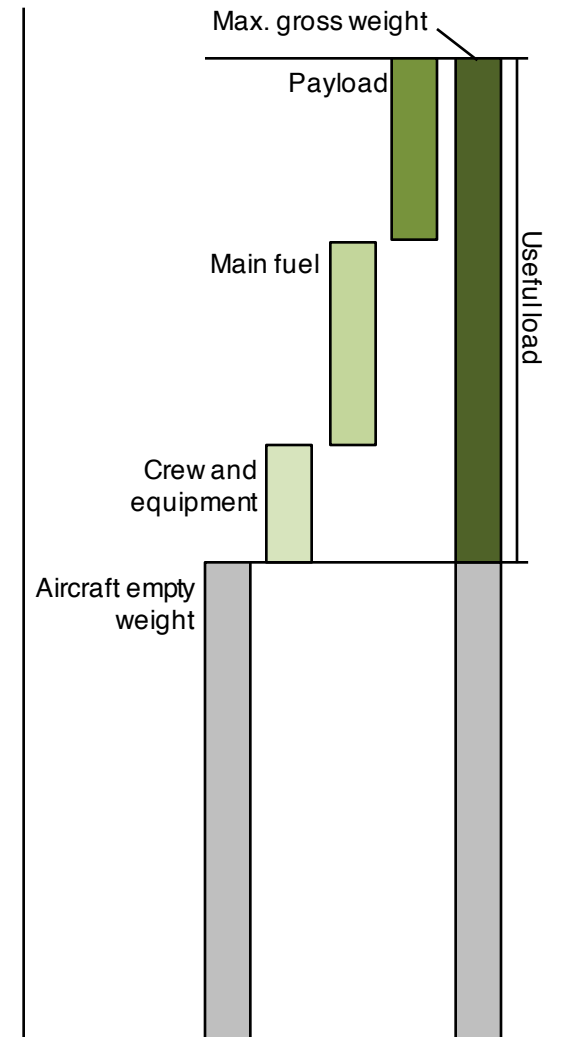
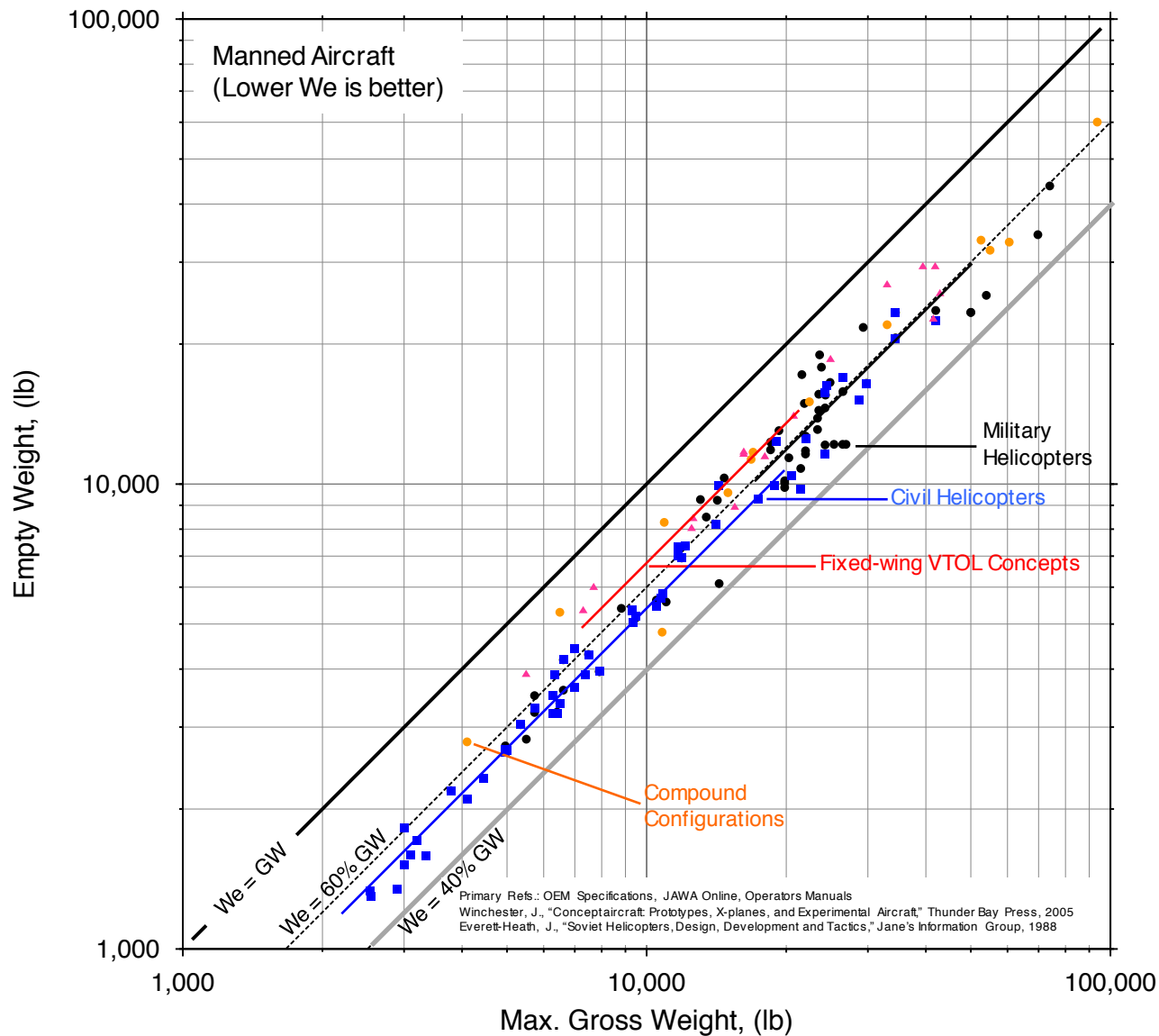


VTOL Trends in Cruise Efficiency





VTOL Empty Weight, Useful Load





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