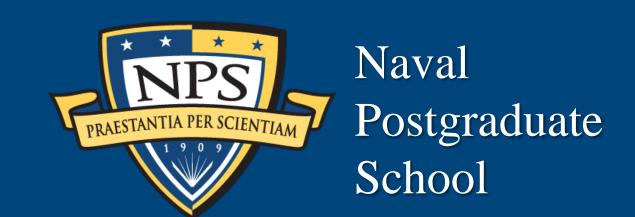
Arctic Scan Eagle





Scan Eagle Unmanned Aerial Vehicle

- Scan Eagle is currently in use by the US Navy
- Current Scan Eagles are restricted by environmental constraints
- Develop and implement solutions for flying Scan Eagle in the Arctic
- Validate solutions

- Identify material rated at or below -40C to replace existing fuel and pitot lines
- Develop a solution for keeping engine temperature above 140C and below 180C
- Establish and approach for eliminating wing icing during flight
- Use an environmental chamber to validate solutions

- Research will have an immediate operational impact for the US Navy
- This capability is a known requirement for Naval Special Warfare
- This research provides students with relevant and unique advanced education and research in accordance with NPS mission statement
- Research provides a source for unmanned systems employment concepts for operations as per the specific CRUSER Goals



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