

## **Mini-UAS for Counter-Piracy Operations**



**Stayne Hoff AeroVironment, Inc.** 



#### **Statement of Need**

Source: International Maritime Bureau Live Piracy Map for 2009 (http://www.icc-ccs.org)

Sea piracy is now a huge concern for global naval commerce, including oil transport.

NATO naval forces are challenged to combat this growing activity.

Near-term or immediate transformational capabilities are sought to leverage the effectiveness of existing naval assets.







Is there an affordable asset in production that could be fielded on any small boat today, without retrofit, and provide short-range day & night aerial ISTAR with almost no footprint?



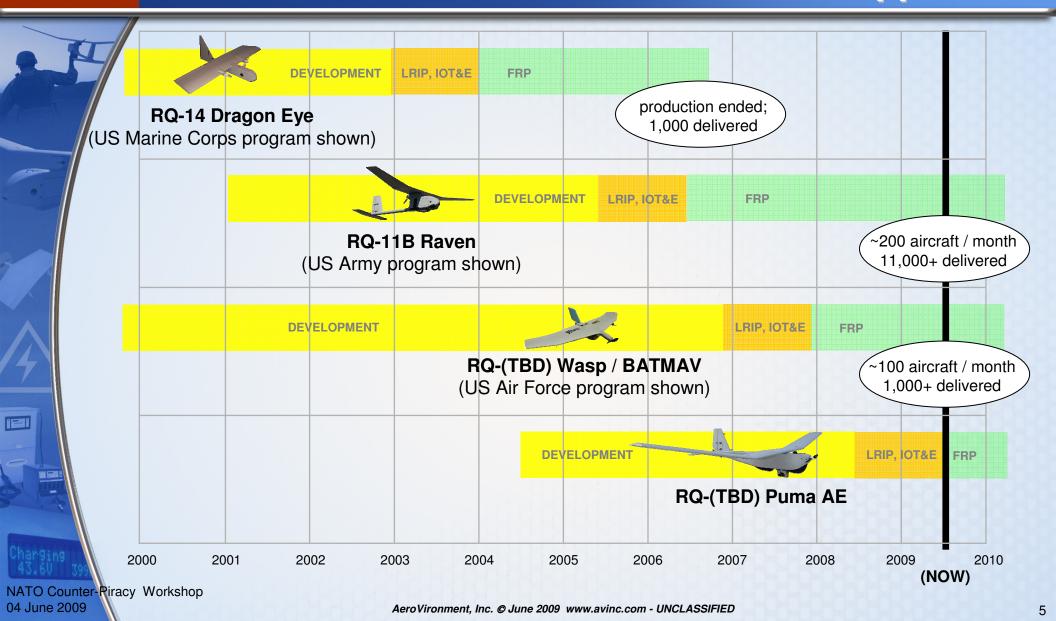
# **Puma AE (All Environment)**



NATO Counter-Piracy Workshop 04 June 2009



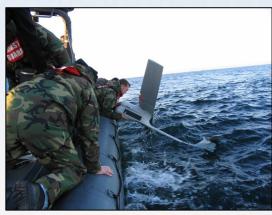
# **AV: Proven history of UAS transition from the Lab to Full-Rate Production to Fleet Support**





# Puma: Demonstrated Capability from Small Craft













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## (show video...)

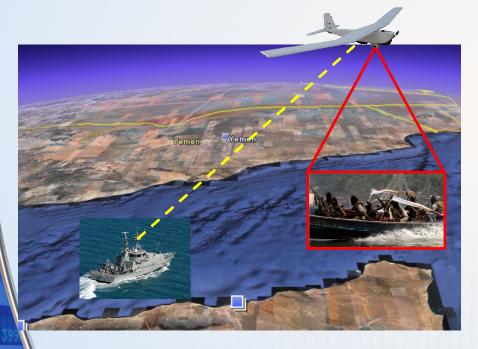




#### **Some Obvious Puma Missions**

#### **DEFENSIVE**

- Vessel detects suspicious contact (visual, radar, ...)
- Vessel launches Puma AE within 5 minutes to get short-range day/night "actionable" ISTAR (covertly at night)



#### **OFFENSIVE**

- Pirated ship is approached by Aid Vessel, which launches Puma AE from a standoff distance
- Puma system persistently provides "actionable" ISTAR (covertly at night)



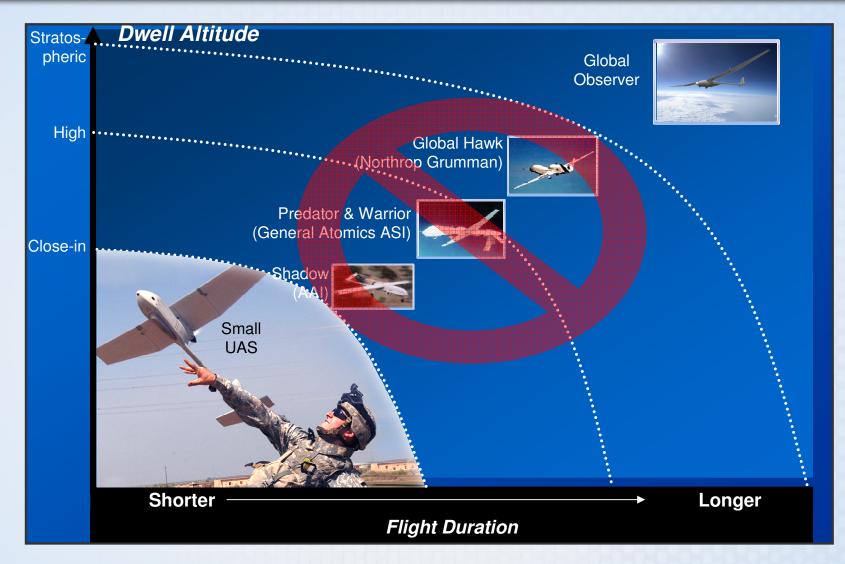


# Puma AE's Ground Control Station: shared by all





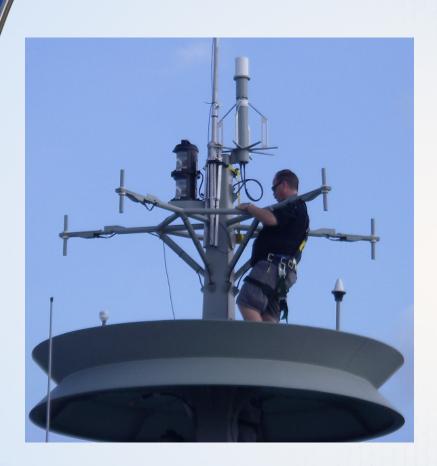
## Why only SUAS and HALE UAS for AV?



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