

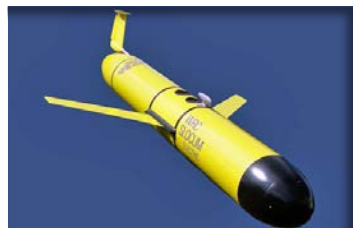


Unmanned Systems (UxS)

Enhance NOAA Strategic Investment and Use of UxS

Robert Winokur – April 24, 2019

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Objective – Create a NOAA UxS Strategic Plan

Notional Outline

Vision

Primary Mission Areas

Scope:

Unmanned Aerial Systems (UAS)

Unmanned Marine Systems (UMS)

Data & Cybersecurity

Supporting Infrastructure

Primary Goals:

Expand Operations

Increase Partnerships

Increase Capabilities:

Personnel

Facilities

Current State

Roles/Responsibilities





Building Blocks

NOAA UxS Roadmap (2015)

NOAA UAS Policy and Handbook

UAS and UMS Symposium Proceedings

Current Systematic UxS Operations:

Integrated Ocean Observing System (IOOS)

Office of Coast Survey Unmanned Strategy

NOAA and Partner Facilities



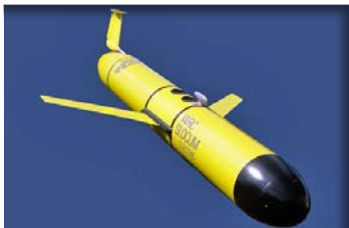
Vision

Consider. . .

NOAA fully integrates unmanned systems to measure and assess the oceans and atmosphere, collecting data that would otherwise be unattainable (2009)

NOAA intends to utilize proven, unmanned technologies (UxS) to enhance mission effectiveness, improve operational efficiency, reduce risk in hazardous operational areas, and affordably close earth observation gaps (2015)

Unmanned Systems – Transforming the NOAA mission through centralized & coordinated planning, execution, evaluation, and adaptation



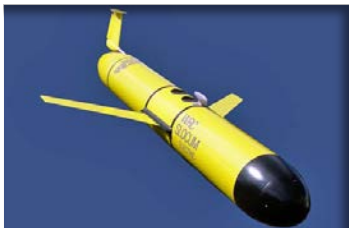
Goals

Existing. . .

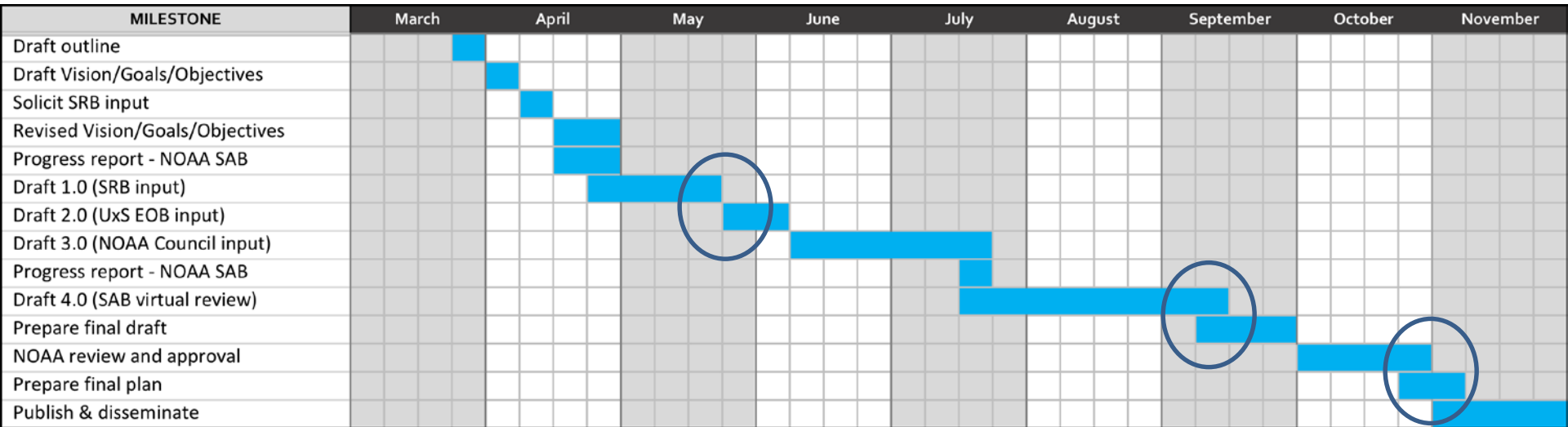
Reduce the cost per observation by utilizing unmanned technology

Utilize unmanned systems in environments where it is unsafe, inefficient or impossible to make observations using traditional techniques

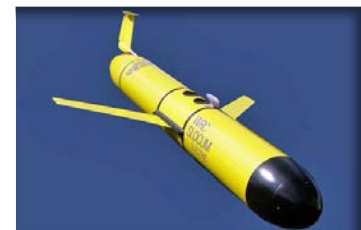
Quicken the pace of transitioning unmanned systems to operations when supported by a business case



Schedule



Contingency schedule - NOAA SAB approves & delivers product at November meeting



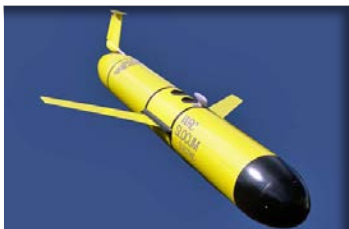
Key Driver

S. 2511 - Commercial Engagement Through Ocean Technology Act of 2018 (CENOTE)

Requires OMAO and OAR to lead NOAA coordination of research, assessment & acquisition

Requires NOAA to coordinate with the Navy, academia, industry

Authorizes co-location of NOAA, Navy, academia





Challenges

Consistent with P.L. 115-394 (CENOTE)

Aligns with and better informs existing investments

Coordination with external partners

Inform future planning and actions

