

Glider Plan

Voting System

A web site will be created in which anyone from the team can propose a new area of the ASAP box for special sampling attention (ie propose a rectangle or rectangle from the candidate grid with corresponding time period of interest) and provide a justification for their proposal.

There will be a vote on-line. Each group has a vote. Rules for voting TBD. Justification for strong endorsements and rejections of proposals critical.

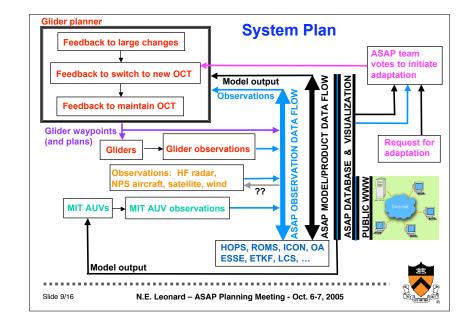
A minimum time interval between consecutive proposals will be imposed.

The goal is to implement important adaptation proposals and to be sure to try all the different reasons for adaptation (dynamics, sensitivity, ...) over the course of the experiment.

Physically possibility will be checked (e.g., can the gliders get to location in timely fashion).

Designated person will review all input and make final decision.

Slide 8/16 N.E. Leonard – ASAP Planning Meeting - Oct. 6-7, 2005



Virtual Pilot Study (VPS)

Why are we doing this?

(1) To address the goals set forth by ONR and by ASAP investigators (see Appendices) we are developing an observational infrastructure (the "system") that is robust, scalable, and sustainable. The system is not the goal, but our research goals require a working system.

(2) The purpose of the VPS is to test the system in its entirety. The fundamental purpose of a pilot experiment (whether "real" or "virtual") is to shake out the wrinkles in an experimental plan so that time and resources are used most efficiently during the actual field program.

(3) The VPS is "virtual" only in the sense that no observing hardware will be placed in the field. Asset movement and profile data will be simulated. All other aspects of the system will be utilized in the same manner as if we were engaged in a field operation.

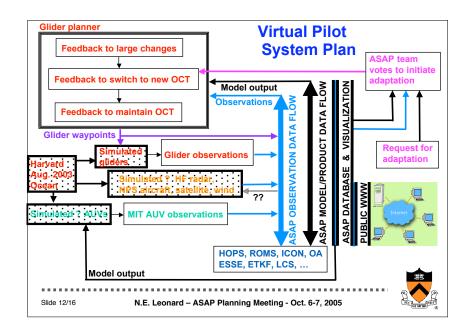
(4) Specific research questions are secondary to refining the operation of the complete system. Individual elements of the observing system can be conveniently tested in isolation before or after the VPS.

Slide 10/16	N.E. Leonard – ASAF

Planning Meeting - Oct. 6-7, 2005



	Virtual Pilot Study (VPS) What is real, what is virtual				
	Real	Virtual			
	Control system	Observing hardware			
	Data flow	Ocean (replay 2003?)			
	Predictive models				
	Measures of success				
	(1) All elements of the system operate smoothly together and with minimal human involvement.				
	(2) An external observer should not be able to tell that this pilot study was "virtual." Although we are simulating both the ocean and the ocean observing hardware, all of the data and control interfaces (internal and external) should appear and behave exactly as they will during the field experiment.				
	(3) The VPS should help us identify potential problem areas that need correction before Summer 2006 field work begins. All groups should walk away from the VPS with a very clear idea of the work that remains to be done.			·162.29*	
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Virtual Pilot Study (VPS) -- To be resolved Schedule for VPS? What period of Harvard Aug 2003 ocean should we use? How much of the system plan do we anticipate that we can test in the VPS? Are there developments not yet reflected in system plan that we need to add? Are there critical pieces not getting attention? Who will do these? Where do we need additional effort in integration of methodologies? Where are the interfaces not yet complete? How might preliminary results of OSSE's help us hone our plan? What remains to do to make data flow? What are remaining open questions that we should consider as a team? Slide 13/16

