

Team Wet

Goal: A feasible field program

Some Key Questions:

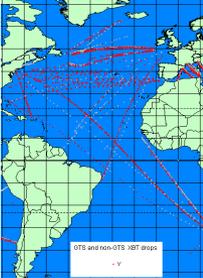
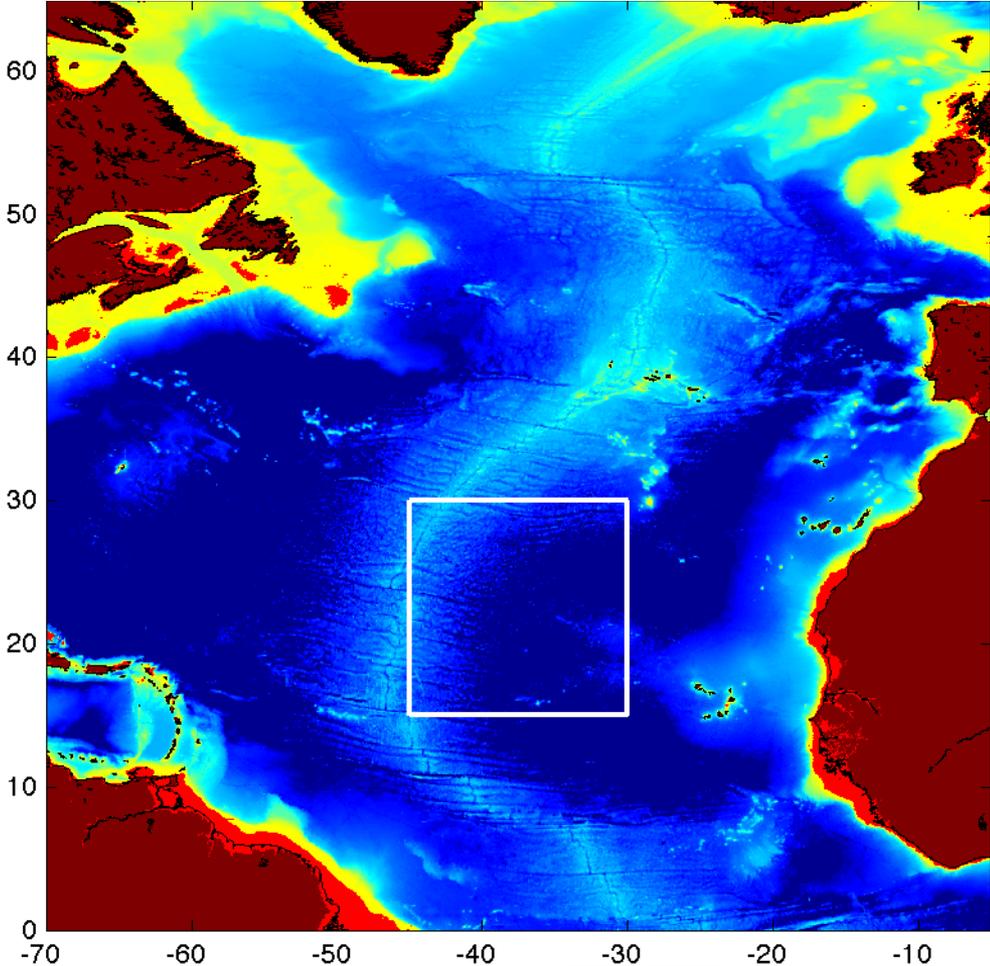
1. Where/when will central mooring be deployed?
2. What mooring array structure is optimal?
3. How large are the glider boxes?
4. What small scale surveys make the most sense?
5. What ship resources are required?
6. Which cruises are best for which programs?
7. How are we addressing each term?
8. How will field results lead to model improvements?
9. What do we need from the models and when?
10. What enhancements are needed to existing systems?
11. What are the planning milestones? (mtgs etc)
12. What does team dry need from team wet?
13. What is the management structure? (Steering com., Chf Sci. etc)
14. A simple Implementation plan is needed.
15. Discovery & Exploration

Defining the experiment

- Regional box: 15-30 N, 30-45 W
- Flux Mooring: 25 N, 38 W
- PMEL Prowler Moorings: 25km East and South of Flux Mooring

SPURS Large-Scale Working Area & Sensors/Platforms

Enhanced
Obs in
 $15^\circ \times 15^\circ$
box



XBT
S



Driftersx72



STS/PAL
Floatx20



Argo Float

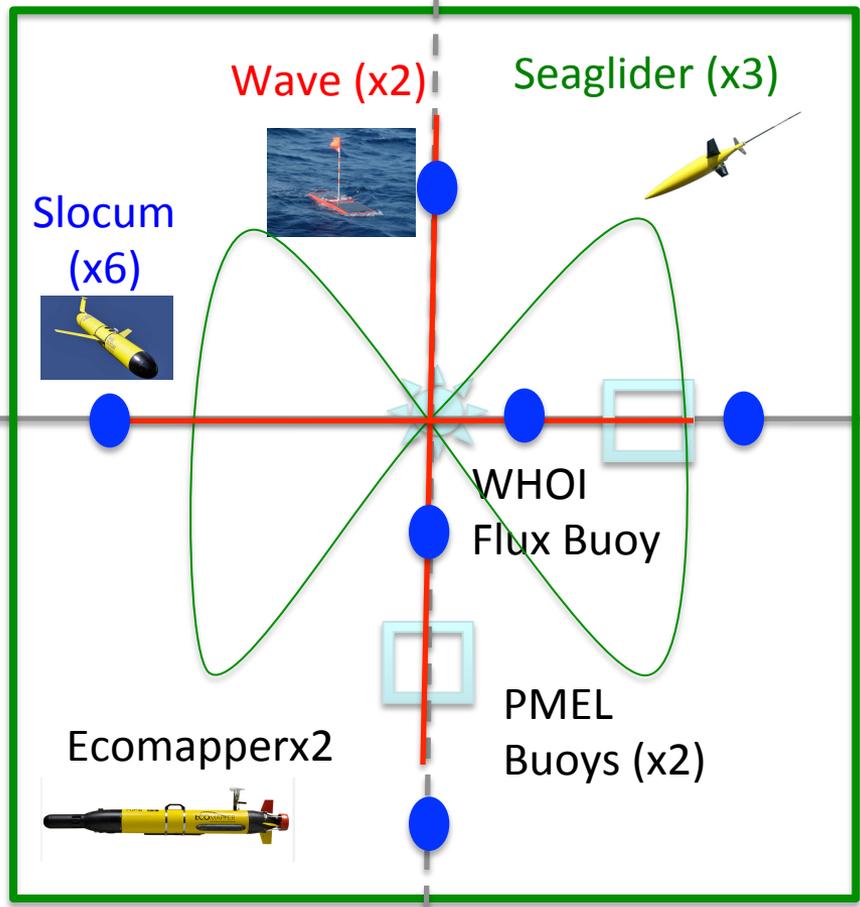
SPURS Mesoscale Working Area & Sensors/Platforms

March 2012
UNOLS
and
Spanish
Cruises



Flux bowmast

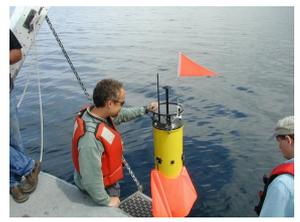
Mesoscale Box (150x150 km²)



(not to scale)



MicroS Profiler



ML Float (x2)



UK/France Rapid Cruise Oct. 2011



STS/PAL Float (x25)



ASIP



SSS Drifters (x75)



Pirata Mooring



- March 2012 UNOLS and Spanish Cruises
 - Possible east coast staging for gear, UNOLS cruise for mooring/glider deployments
 - Division of tasks between ships TBD
 - WHOI flux buoy
 - PMEL moorings (x2)
 - Seagliders (x3)
 - Wave gliders (x2) Slocum glider (x6) Ecomapper (x2)
 - STS floats (x25)
 - SSS Drifters (x75)
 - ML float (x2)
 - Microstructure Glider and Profiler
 - ASIP
 - Flux bow mast

- July 2012 France Cruise



ASIP

Salinity Surfboard

Bio-profiler Float

Drifters

Glider

Fluxes (mast)

Autonomous flux platforms

Fall 2012 UNOLS Cruise



- Glider Servicing
- Microstructure
- Profiling Drifter Deployment
- MLF servicing
- CTD profiles near moorings
- SSprofiler
- Mooring service
- ASIP
- Ecomapper/Slocums
- Underway TSG, Met measurements

Spring 2013 UNOLS Cruise



- Mooring recovery
- Glider recovery
- MLF recovery
- Profiling drifter recovery
- SSS drifter recovery
- Ecomapper

Cruise Matrix (draft)

UNOLS 1	Spanish	French	Irish	UNOLS 2	UNOLS 3
3/12	3/12	7/12	9/12	9/12	3/13
Mooring					Mooring
SeaGlider				Gliders	Gliders
Floats					
Drifters	Drifters	Drifters		P-Drifters	
	Micro			Micro	
	ASIP	ASIP	ASIP		
		SSP		(SSP)	

Timing Milestones

- April 1 Aquarius go/nogo
- June Launch
- UNOLS Check (now)
- June NSF Funding decisions?
- June OSSE teleconference (post GODAE Workshop 14-17 June)
- Sept UNOLS meeting
- Nov. SPURS meeting (data products and systems, final cruise plans) (Seattle, Miami)

SPURS Steering Group

- Schmitt (Chair)
- Lindstrom & Hacker (ex officio)
- Lagerloef (ex officio)
- Bingham
- Chao
- Farrar
- Goni
- Gordon
- Lee
- Reverdin
- Riser

SPURS Working Groups (Chair)

- Surface Flux products (Edson)
- Salinity calibration (Gordon)
- Mixing and Parameterizations (Schmitt)
- Sfc Drifters (Reverdin)
- Modeling (Chao)
- Data Pipelines (F. Bingham)
- Ship resources (Fratantoni)
- Enhanced Obs (Goni)

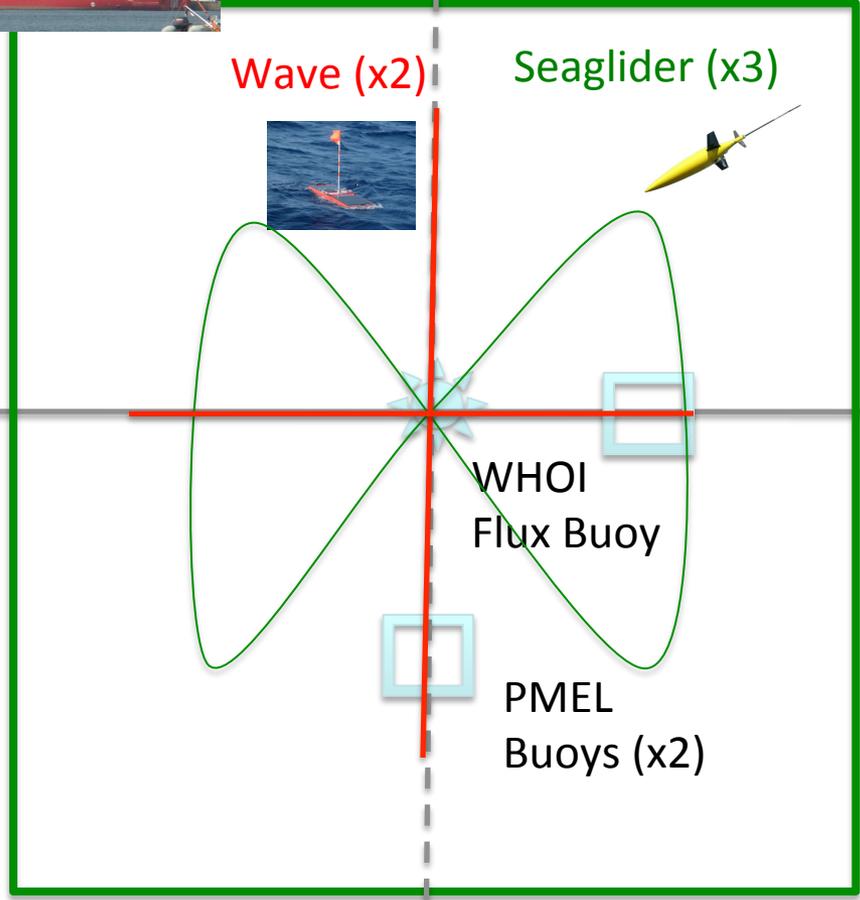
Action items

- Summary SPURS implementation plan (Steering committee)
- Working group (Chairs, identify members)
- Products for real time data (cruise periods)



Flux bowmast Mesoscale Box (200x200 km²)

March 2012 Spanish Cruise



Wave (x2)



Seaglider (x3)



MicroS Profiler



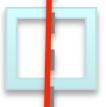
ML Float (x2)

25N



UK/France Rapid Cruise Oct. 2011

WHOI Flux Buoy



PMEL Buoys (x2)



STS/PAL Float (x25)



ASIP

(not to scale)



SSS Drifters (x75)

20N



Pirata

38W

35W