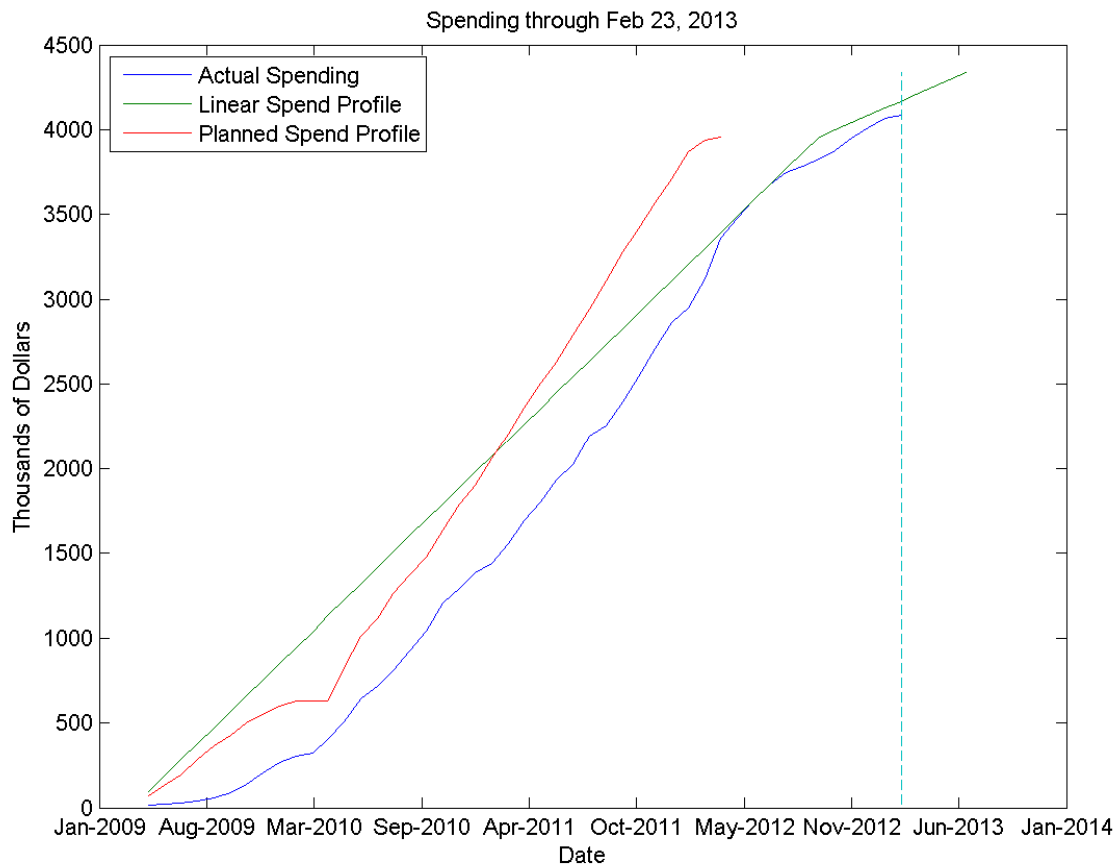
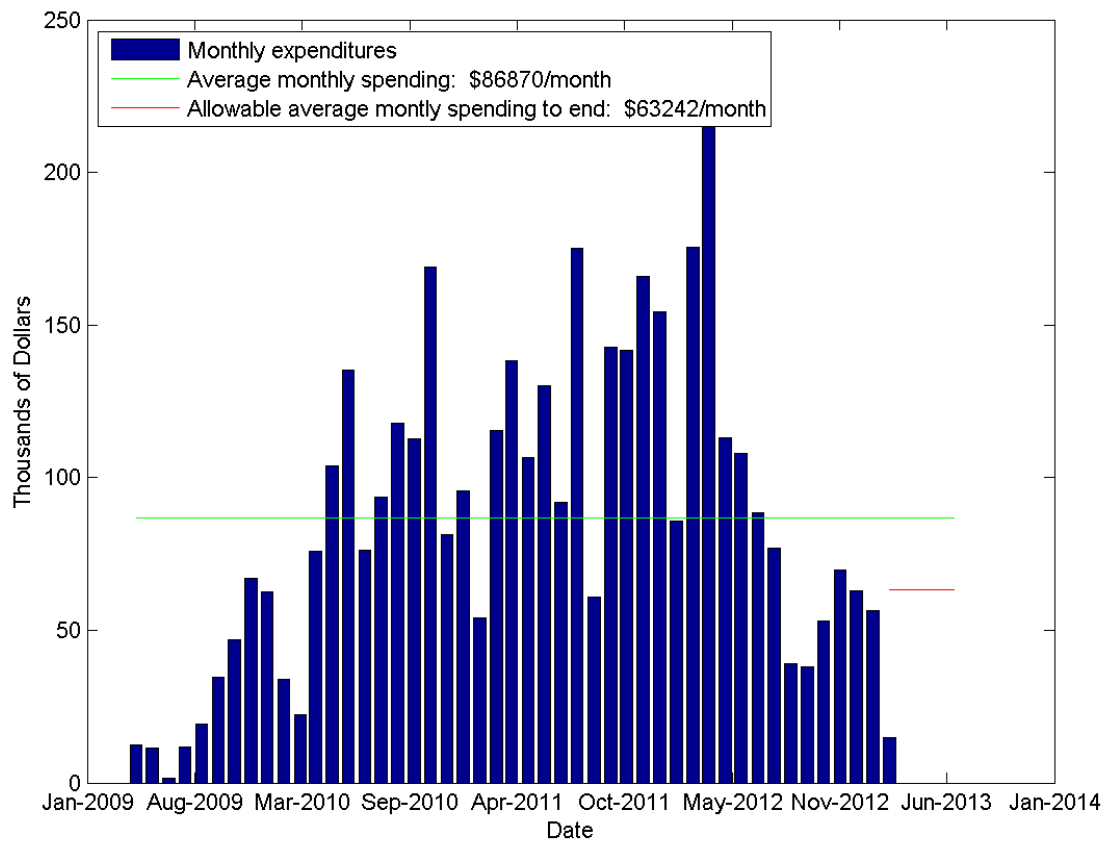


Financial Progress through Feb 23, 2013

The graph below shows the projects spend profile through Feb 23, 2013. The red line shows the original spending plan (from the original proposal), the green line shows the linear spend rate from the project inception to an end date that reflects a six month extension in the original period of performance. After September 2012 a second extension is represented by the change in slope of the green line. The blue line shows the actual spend rate.





\$242,347 Remains unspent

\$182,206 Allocated for tasks still to be done

\$60,141 Remains unallocated

Updated: Feb 23, 2013

Activity	Dates		Costs			Budget		Percent Complete/Spent (Est)			Spent	Remaining	
Sub-tasks	Start	End	Labor (Days)	Material	Ship	(Burdened)		Labor (Days)	Material	Ship	(Burdened)	Dollars	Percentage
Control Scheme Development for 1st Deployment	9/25/2012	10/25/2012					\$24,492					\$0	0%
Implementation of PTO model into code	9/25/2012	10/1/2012	4			\$4,898		100%			\$4,898		
Calibration of model w.r.t. previous deployments	9/25/2012	10/1/2012	4			\$4,898		100%			\$4,898		
Development of gain-scheduling algorithm	9/25/2012	10/25/2012	6			\$7,348		100%			\$7,348		
Development of latching algorithm	9/25/2012	10/25/2012	6			\$7,348		100%			\$7,348		
1st Test Deployment Preparations	9/25/2012	11/6/2012					\$62,724					\$0	0%
Wave-energy converter maintenance	9/25/2012	10/31/2012	20	\$7,500		\$35,817		100%	100%		\$35,817		
Add buoy submergence sensor	9/25/2012	11/2/2012	4	\$1,300		\$6,861		100%	100%		\$6,861		
Implement control algorithms	10/8/2012	11/2/2012	10			\$12,246		100%			\$12,246		
Final system testing	11/5/2012	11/6/2012	5			\$6,123		100%			\$6,123		
Replace WaveRider Batteries	10/15/2012	11/6/2012	1	\$300		\$1,678		100%	100%		\$1,678		
1st Test Deployment	11/7/2012	12/7/2012					\$38,224					\$0	0%
Mobilize all equipment to dock.	11/7/2012	11/7/2012	2			\$2,449		100%			\$2,449		
Load boat	11/8/2012	11/8/2012	2		\$1,950	\$5,394		100%		100%	\$5,394		
Deployment	11/9/2012	11/9/2012	4		\$1,950	\$7,843		100%		100%	\$7,843		
System monitoring	11/9/2012	12/6/2012	10			\$12,246		100%			\$12,246		
Recovery and Unload Boat	12/6/2012	12/6/2012	4		\$1,950	\$7,843		100%		100%	\$7,843		
De-mobilization	12/7/2012	12/7/2012	2			\$2,449		100%			\$2,449		
1st Test Data Analysis	12/10/2012	1/10/2013					\$19,593					\$0	0%
Correlation of test data and wave data	12/10/2012	12/12/2012	2			\$2,449		100%			\$2,449		
Analysis of test data	12/13/2012	12/28/2012	10			\$12,246		100%			\$12,246		
Test Report	1/1/2013	1/10/2013	4			\$4,898		100%			\$4,898		
Control Scheme Development for 2nd Deployment	1/14/2013	3/11/2013					\$30,615					\$9,797	32%
Evaluation of buoy draft sensor performance	1/14/2013	1/18/2013	5			\$6,123		100%			\$6,123		
Development of latching algorithm	1/21/2013	3/11/2013	20			\$24,492		60%			\$14,695		
2nd Test Deployment Preparations	2/1/2013	3/29/2013					\$68,109					\$30,607	45%
Design and Implement Load Dump Switch	1/14/2013	2/14/2013	10			\$12,246		100%			\$12,246		
Wave-energy converter maintenance	2/1/2013	3/8/2013	20	\$7,500		\$35,817		80%	50%		\$25,256		
Implement control algorithms	3/11/2013	3/22/2013	10			\$12,246		0%			\$0		
Final system testing	3/25/2013	3/29/2013	5			\$6,123		0%			\$0		
Replace WaveRider Batteries	3/25/2013	3/29/2013	1	\$300		\$1,678		0%	0%		\$0		
2nd Test Deployment	4/1/2013	4/30/2013					\$38,224					\$38,224	100%
Mobilize all equipment to dock.	4/1/2013	4/1/2013	2			\$2,449		0%			\$0		
Load boat	4/2/2013	4/2/2013	2		\$1,950	\$5,394		0%	0%		\$0		
Deployment	4/3/2013	4/3/2013	4		\$1,950	\$7,843		0%	0%		\$0		
System monitoring	4/3/2013	4/28/2013	10			\$12,246		0%			\$0		
Recovery and Unload Boat	4/29/2013	4/29/2013	4		\$1,950	\$7,843		0%	0%		\$0		
De-mobilization	4/30/2013	4/30/2013	2			\$2,449		0%			\$0		
2nd Test Data Analysis	5/1/2013	5/31/2013					\$22,043					\$22,043	100%
Correlation of test data and wave data	5/1/2013	5/3/2013	2			\$2,449		0%			\$0		
Analysis of test data	5/6/2013	5/17/2013	12			\$14,695		0%			\$0		
Test Report	5/20/2013	5/31/2013	4			\$4,898		0%			\$0		
Final Project Report	1/1/2013	6/25/2013					\$80,823					\$71,638	89%
Data collection and analysis	1/1/2013	5/31/2013	30			\$36,738		20%			\$7,348		
Journal Paper Preparation	1/1/2013	5/31/2013	20			\$24,492		0%			\$0		
Final Data Analysis and Report Writing	6/3/2013	6/21/2012	15			\$18,369		10%			\$1,837		
Report Submission	6/24/2013	6/24/2013	1			\$1,225		0%			\$0		
Numerical Code Transistion	8/1/2012	6/25/2013					\$42,962					\$9,898	23%
Users manual and examples	8/1/2012	11/30/2012	15			\$18,369		100%			\$18,369		
Transition to web server	12/3/2012	12/4/2012	2			\$2,449		100%			\$2,449		
Carderock/DC Visit	12/5/2012	12/7/2012	5	\$2,500		\$9,898		100%	0%		\$6,123		
Support as needed.	6/24/2013	6/24/2013	10			\$12,246		50%			\$6,123		
Sonar Evaluation	12/1/2012	2/15/2013					\$25,716					\$0	0%
DAT Performance Evaluation (alone)	12/1/2012	12/31/2012	10			\$12,246		100%			\$12,246		
DAT In-Vehicle Performance Evaluation	1/1/2013	1/21/2013	10			\$12,246		100%			\$12,246		
Report	1/12/2013	2/1/2013	1			\$1,225		100%	0%		\$1,225		

Totals:

\$453,523

\$182,206

ID	Task Name	Start	Finish	Timeline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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