



2016 Project Budget

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Project: **200103** Title: **Core CTD Date - MDUC** Project Manager: **Rienecker, Erich**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
200103	5060	Dues / Membership / Licenses	Lab View, MatLab etc		2,500
	5090	Maintenance and Repair	Instrument Calibration and service		42,000
	5300	Supplies - Computer (Hardware)	Ship and Field computers		2,500
	5330	Supplies - Non-Capitalized Equipment	one additional SBE 43 to increase spare availability		5,000
	5360	Supplies - General	Tools supplies Etc		3,000
	5380	Supplies - Science Lab	Winkler and other reagents		500
Total Expenses					55,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
200103	160	SCI-Research Specialist	Ryan, John	Packard	75
	SCI-Research Specialist				75
	170	SCI-Research Tech	Michisaki, Reiko	Packard	32
	SCI-Research Tech				32
	180	SCI-Scientist	Robison, Bruce	Packard	40
	SCI-Scientist				40
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	160
	ENG-Software Eng - Info Eng				160
	395	DMO- Marine Ops Tech	Rienecker, Erich	Packard	1,000
DMO- Marine Ops Tech					1,000
Total Labor Hours					1,307

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
200103					
Total Ship Days					



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Project: **200105**

Title: **Core Nav - MDUC**

Project Manager: **Caress, David**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
200105					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
200105	355	ENG-Software Eng - Info Eng	Caress, David	Packard	8
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	32
	ENG-Software Eng - Info Eng				40
	470	ITD-Video Support	Kuhn, Linda	Packard	40
	ITD-Video Support				40
Total Labor Hours					80

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
200105					
Total Ship Days					



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Project: **200109**

Title: **Core Mooring Data**

Project Manager: **McCann, Michael**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
200109					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
200109	160	SCI-Research Specialist	Bahr, Frederick	Packard	200
	SCI-Research Specialist				200
	355	ENG-Software Eng - Info Eng	McCann, Michael	Packard	120
	ENG-Software Eng - Info Eng				120
Total Labor Hours					320

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
200109					
Total Ship Days					



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Project: **300057**

Title: **Mooring Maintenance**

Project Manager: **Dawe, Craig**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300057	5090	Maintenance and Repair	Costs associated with on-going maintenance as well as the M1 build. These include expenses such as sensor calibrations and repairs, float surface treatments, and elevator plating.		46,000
	5130	Outside Srvc - General	Includes blasting and painting of bridle and possible external ship time		6,000
	5300	Supplies - Computer (Hardware)	Upgrade of RAM and replacement batteries for field computers.		1,000
	5330	Supplies - Non-Capitalized Equipment	M1 is due for the replacement of some inexpensive sensors and sensor elements such as GPS antennas and Rh elements.		3,000
	5360	Supplies - General	Includes mooring line, hardware, sensor cables and most expendable items used in the construction and maintenance of M1 (e.g., paints, fasteners, cable ties, slings, etc.)		28,000
	5390	Supplies - Tools	Replacement tools and improvements to collection to facilitate the M1 build		1,500
Total Expenses					85,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300057	210	ENG-Electrical Engineer	Okuda, Craig	Packard	200
	ENG-Electrical Engineer				200
	270	ENG-Electrical Tech	Coenen, Paul	Packard	40
	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech	Flores, Frank	Packard	20
		ENG-Mechanical Tech		Packard	20
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	60
	ENG-Machinist				60
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	40
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	120
	ENG-Software Eng - Info Eng				160
	395	DMO- Marine Ops Tech	French, David	Packard	30
		DMO- Marine Ops Tech	Wahl, Christopher	Packard	200
		DMO- Marine Ops Tech		Packard	100
	DMO- Marine Ops Tech				330
	400	DMO-Observatory Support	Figurski, Jared	Packard	1,000



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300057		DMO-Observatory Support			1,000
Total Labor Hours					1,830

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300057	MBARI	26	Rachel Carson (12 hour day)	1.0	0.0
	MBARI	29	Paragon	12.0	
Total Ship Days				13	0



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Project: **300058** Title: **DMO Support-Western Flyer**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300058					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300058	280	ENG-Mechanical Tech		Packard	70
	ENG-Mechanical Tech				70
	290	ENG-Machinist		Packard	40
	ENG-Machinist				40
	300	ENG-Mechanical Engineer	Erickson, Jon	Packard	40
	ENG-Mechanical Engineer				40
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	40
	ENG-Software Eng - Info Eng				40
Total Labor Hours					190

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300058	MBARI	24	Western Flyer	3.0	0.0
Total Ship Days				3	0



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Project: **300060**

Title: **DMO Support - Paragon**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300060					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300060	270	ENG-Electrical Tech		Packard	30
	ENG-Electrical Tech				30
	280	ENG-Mechanical Tech	Flores, Frank	Packard	40
		ENG-Mechanical Tech		Packard	40
	ENG-Mechanical Tech				80
	290	ENG-Machinist		Packard	50
	ENG-Machinist				50
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	80
	ENG-Mechanical Engineer				80
	Total Labor Hours				240

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300060					
Total Ship Days					



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Project: **300062** Title: **DMO Support -Doc Ricketts**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300062					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300062	280	ENG-Mechanical Tech		Packard	70
	ENG-Mechanical Tech				70
	290	ENG-Machinist		Packard	100
	ENG-Machinist				100
	300	ENG-Mechanical Engineer	Erickson, Jon	Packard	60
	ENG-Mechanical Engineer				60
	350	ENG-Software Eng - Embedded	Risi, Michael	Packard	60
	ENG-Software Eng - Embedded				60
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	40
	ENG-Software Eng - Info Eng				40
Total Labor Hours					330

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300062					
Total Ship Days					



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Project: **300070**

Title: **DMO Support - Ventana**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300070					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300070	270	ENG-Electrical Tech		Packard	40
	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech	Flores, Frank	Packard	80
		ENG-Mechanical Tech		Packard	40
	ENG-Mechanical Tech				120
	290	ENG-Machinist		Packard	80
	ENG-Machinist				80
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	40
	ENG-Mechanical Engineer				40
	350	ENG-Software Eng - Embedded	Risi, Michael	Packard	225
	ENG-Software Eng - Embedded				225
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	225
	ENG-Software Eng - Info Eng				225
	Total Labor Hours				730

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300070					
Total Ship Days					



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Project: **300078**

Title: **DMO Support - AUV**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300078					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300078	210	ENG-Electrical Engineer	Martin, Eric	Packard	40
	ENG-Electrical Engineer				40
	270	ENG-Electrical Tech		Packard	80
	ENG-Electrical Tech				80
	280	ENG-Mechanical Tech		Packard	80
	ENG-Mechanical Tech				80
	290	ENG-Machinist		Packard	150
	ENG-Machinist				150
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	50
	ENG-Mechanical Engineer				50
Total Labor Hours					400

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300078					
Total Ship Days					



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Project: **300079** Title: **DMO Support - Rachel Carson**

Project Manager: **Grech, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300079					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300079	210	ENG-Electrical Engineer	Okuda, Craig	Packard	100
	ENG-Electrical Engineer				100
	270	ENG-Electrical Tech		Packard	70
	ENG-Electrical Tech				70
	280	ENG-Mechanical Tech		Packard	40
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	80
	ENG-Machinist				80
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	80
	ENG-Mechanical Engineer				80
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	40
	ENG-Software Eng - Info Eng				40
Total Labor Hours					410

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300079	MBARI	25	Rachel Carson (10 hour day)	3.0	0.0
Total Ship Days				3	0



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Project: **300080**

Title: **DMO Support - Mini ROV**

Project Manager: **Graves, Dale**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300080					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300080	210	ENG-Electrical Engineer	Martin, Eric	Packard	200
		ENG-Electrical Engineer	Sherman, Alana	Packard	250
	ENG-Electrical Engineer				450
	270	ENG-Electrical Tech		Packard	80
		ENG-Electrical Tech			
	280	ENG-Mechanical Tech		Packard	200
		ENG-Mechanical Tech			
	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	160
		ENG-Mechanical Eng-Mfg			
	Total Labor Hours				

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300080					
Total Ship Days					



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Project: **300082** Title: **DMO Support - Wave Glider**

Project Manager: **Graves, Dale**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
300082					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
300082	270	ENG-Electrical Tech	Coenen, Paul	Packard	80
	ENG-Electrical Tech				80
	350	ENG-Software Eng - Embedded	Maughan, Thomas	Packard	120
	ENG-Software Eng - Embedded				120
	400	DMO-Observatory Support	Figurski, Jared	Packard	60
	DMO-Observatory Support				60
Total Labor Hours					260

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
300082					
Total Ship Days					



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Project: **500055** Title: **Video Annotation DM** Project Manager: **Jacobsen Stout, Nancy**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
500055	1500	Capital Item > \$5,000 Unit Cost	Isilon additions (ingest stations, robotics, network modifications) to accommodate M3		75,000
	1500	Capital Item > \$5,000 Unit Cost	LTO tape playback station for testing/review/annotation in Video Lab		30,000
	1500	Capital Item > \$5,000 Unit Cost	MAM (media asset management) software (semi-customizable), including training/support/possibly external contractor developments		50,000
	1500	Capital Item > \$5,000 Unit Cost	SAMMA solo G5 HD package unit for our archiving efforts. Includes 1 year of support/maintenance.		80,000
	1500	Capital Item > \$5,000 Unit Cost	Shipboard video capture equipment for Western Flyer. Likely, redundant 1 Beyond Wrangler Flex DDRs + EZStor 48-unit LTO recorders		85,000
	5380	Supplies - Science Lab	200-300 LTO-6 (2.5TB capacity) tapes [to cover a) the remaining ~1000 hours (using a minimum dive duration of 8 hours) = 125 and b) a surplus of 75 - 125 tapes @ approximately \$35 per unit (\$33 per unit + tax + shipping)]		9,000
	5380	Supplies - Science Lab	Approx. 250 hours of D5 tape (250 x est. \$125/ hour) to potentially cover ROV video recordings through early 2016		32,000
Total Expenses					361,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
500055	210	ENG-Electrical Engineer	Chaffey, Mark	Packard	40
	ENG-Electrical Engineer				40
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	40
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	60
		ENG-Software Eng - Info Eng	Schlining, Brian	Packard	700
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	40
	ENG-Software Eng - Info Eng				840
	450	ITD-Admin Support		Packard	300
	ITD-Admin Support				300



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
500055	470	ITD-Video Support		Packard	2,400
	ITD-Video Support				2,400
	490	OED-I.S. Support	Ruston, Todd	Packard	280
	OED-I.S. Support				280
Total Labor Hours					3,860

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
500055					
Total Ship Days					



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Project: **600034** Title: **Precision Control Technologies for ROV and AUV** Project Manager: **Risi, Mike**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
600034	5130	Outside Srvc - General	support for Stanford students		240,000
	5330	Supplies - Non-Capitalized Equipment	stereo rig for bench testing (cameras+video recorder+recording media)		3,995
Total Expenses					243,995

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
600034	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	80
	ENG-Mechanical Eng-Mfg				80
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	120
		ENG-Software Eng - Embedded	McEwen, Robert	Packard	680
		ENG-Software Eng - Embedded	Risi, Michael	Packard	884
	ENG-Software Eng - Embedded				1,684
	Total Labor Hours				1,764

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
600034	MBARI	25	Rachel Carson (10 hour day)	7.0	0.0
Total Ship Days				7	0



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Project: **701105** Title: **Molecular Bio Sensor** Project Manager: **Scholin, Christopher**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701105	5360	Supplies - General	Copied from Projection System		2,000
Total Expenses					2,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701105	160	SCI-Research Specialist	Ussler III, William	External	80
	SCI-Research Specialist				80
	210	ENG-Electrical Engineer	Jensen, Scott	External	160
	ENG-Electrical Engineer				160
	270	ENG-Electrical Tech	Rosal, Jose	External	80
	ENG-Electrical Tech				80
	300	ENG-Mechanical Engineer	Pargett, Douglas	External	80
	ENG-Mechanical Engineer				80
	350	ENG-Software Eng - Embedded	Roman, Brent	External	80
	ENG-Software Eng - Embedded				80
Total Labor Hours					480

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701105					
Total Ship Days					



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Project: **701115** Title: **O-Buoy Network in Arctic**

Project Manager: **Chavez, Francisco**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701115	5360	Supplies - General	Supplies for OBUOYS		15,000
	5500	Travel - Domestic	Travel to meetings	Chavez, Friederich	5,000
Total Expenses					20,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701115	140	SCI-Research Assist	Friederich, Jules	External	500
	SCI-Research Assist				500
	170	SCI-Research Tech	Blum, Marguerite	External	500
	SCI-Research Tech				500
Total Labor Hours					1,000

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701115					
Total Ship Days					



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Project: **701120**

Title: **MIVEGAS**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701120	5200	Postage / Shipping	Copied from Projection System		12,000
	5360	Supplies - General	Copied from Projection System		10,000
	5500	Travel - Domestic	Copied from Projection System		10,000
Total Expenses					32,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701120	210	ENG-Electrical Engineer	Jensen, Scott	External	80
		ENG-Electrical Engineer	Mellinger, Edward	External	40
	ENG-Electrical Engineer				120
	290	ENG-Machinist	Tynes, Mark	External	480
		ENG-Machinist			480
	300	ENG-Mechanical Engineer	Hobson, Brett	External	160
		ENG-Mechanical Engineer	Pargett, Douglas	External	80
	ENG-Mechanical Engineer				240
	350	ENG-Software Eng - Embedded	Kieft, Brian	External	140
		ENG-Software Eng - Embedded	Roman, Brent	External	80
		ENG-Software Eng - Embedded	Stanway, Michael	External	140
	ENG-Software Eng - Embedded				360
	Total Labor Hours				1,200

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701120					
Total Ship Days					



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Project: **701121**

Title: **Sulfur Flux**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701121	5120	Outside Svc - External Ship Time	Copied from Projection System		14,000
	5330	Supplies - Non-Capitalized Equipment	Copied from Projection System		700
	5360	Supplies - General	Copied from Projection System		2,000
Total Expenses					16,700

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701121	170	SCI-Research Tech	Marin III, Roman	External	200
		SCI-Research Tech	Preston, Christina	External	40
	SCI-Research Tech				240
	210	ENG-Electrical Engineer	Jensen, Scott	External	32
	ENG-Electrical Engineer				32
	270	ENG-Electrical Tech	Coenen, Paul	External	32
	ENG-Electrical Tech				32
	Total Labor Hours				

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701121					
Total Ship Days					



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Project: **701123**

Title: **Ammonia Oxidation**

Project Manager: **Chavez, Francisco**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701123					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701123	130	SCI-Post Doc/RA	Smith, Jason	External	900
	SCI-Post Doc/RA				900
	170	SCI-Research Tech	Blum, Marguerite	External	1,000
	SCI-Research Tech				1,000
Total Labor Hours					1,900

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701123					
Total Ship Days					



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Project: **701124**

Title: **OA CA Current**

Project Manager: **Barry, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701124	5360	Supplies - General	Materials and supplies		7,000
	5500	Travel - Domestic	Travel to meetings	Barry, Boch	3,500
Total Expenses					10,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701124	130	SCI-Post Doc/RA	Boch, Charles	External	1,840
	SCI-Post Doc/RA				1,840
	170	SCI-Research Tech	Lovera, Christopher	External	240
	SCI-Research Tech				240
Total Labor Hours					2,080

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701124					
Total Ship Days					



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Project: **701126**

Title: **EAGER TIRF Sensor**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701126	5360	Supplies - General	Copied from Projection System		4,000
Total Expenses					4,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701126	170	SCI-Research Tech	Marin III, Roman	External	24
		SCI-Research Tech	Preston, Christina	External	24
	SCI-Research Tech				
Total Labor Hours					48

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701126					
Total Ship Days					



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Project: **701127**

Title: **MARS O&M III**

Project Manager: **Dawe, C**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701127	5360	Supplies - General	Hardware for inductive connector development		20,000
Total Expenses					20,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701127	210	ENG-Electrical Engineer	McGill, Paul	External	240
	ENG-Electrical Engineer				240
	350	ENG-Software Eng - Embedded	Maughan, Thomas	External	240
	ENG-Software Eng - Embedded				240
Total Labor Hours					480

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701127	NSF	25	Rachel Carson (10 hour day)	4.0	0.0
Total Ship Days				4	0



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Project: **701128** Title: **Hi Res Bio-Sensor** Project Manager: **Young, Kakani Katija**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701128	5360	Supplies - General	deployment materials		2,000
	5530	Travel - Foreign	Azores, Portugal for squid tagging	Kakani Katija	3,000
Total Expenses					5,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701128	320	ENG-Post Doc	Young, Kakani Katija	External	306
	ENG-Post Doc				306
Total Labor Hours					306

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701128					
Total Ship Days					



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Project: **701130**

Title: **Dimensions DEEPC**

Project Manager: **Haddock, Steve**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701130	5130	Outside Srv - General	Sequencing: Seventeen samples of Hi Seq Illumina run through the University of Utah Huntsman facility cost \$12,894 at current prices. To sequence with sufficient coverage to represent the major genera in the phylum.		26,000
	5130	Outside Srv - General	Web Development: This will largely go to support our broader outreach missions of distributing content via the web, in public databases, and via videos. Registration/hosting external server.		1,400
	5210	Printing / Publication	(and \$2000 for year 1) is requested to cover color plate charges, page costs and open access fees.		2,000
	5360	Supplies - General	Supplies include molecular reagents for extracting RNA (Qiagen AllPrep) and prepping samples for Illumina sequencing, as well as DNA prep and Sanger sequencing (primer synthesis, gels and columns). 2.5 GHz MacBook Pro computer with 16GB		12,000
	5430	Training / Tuition	UCSC tuition for 3 quarters		31,275
	5500	Travel - Domestic	In the first year, additional funds are requested to cover travel to the Society for Advancement of Chicanos and Native Americans in Science (SACNAS) meeting in Washington DC, and to sponsor a booth (\$1350) at the meeting.	Steve Haddock	1,350
	5500	Travel - Domestic	Scientific Meeting related to award	Steve Haddock	1,000
	5500	Travel - Domestic	Scientific meeting related to award	TBD GSR	1,000
Total Expenses					76,025

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701130	105	SCI-Grad Res Assist		External	1,150
		SCI-Grad Res Assist			1,150
Total Labor Hours					1,150

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701130					
Total Ship Days					



2016 Project Budget

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Project: **701201** Title: **Streaming Data Middleware** Project Manager: **Edgington, Duane**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701201	5500	Travel - Domestic	Travel to UCSD for all-PI meeting	Edgington	2,600
Total Expenses					2,600

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701201	350	ENG-Software Eng - Embedded	Headley, Kent	External	180
		ENG-Software Eng - Embedded	Herlien, Robert	External	20
	ENG-Software Eng - Embedded				200
	355	ENG-Software Eng - Info Eng	Edgington, Duane	External	10
		ENG-Software Eng - Info Eng			
Total Labor Hours					210

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701201					
Total Ship Days					



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Project: **701638**

Title: **MB-System**

Project Manager: **Caress, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
701638					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
701638	140	SCI-Research Assist	Anderson, Krystle	External	480
	SCI-Research Assist				480
	355	ENG-Software Eng - Info Eng	Caress, David	External	240
	ENG-Software Eng - Info Eng				240
Total Labor Hours					720

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
701638					
Total Ship Days					



2016 Project Budget

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Project: **702100**

Title: **CeNCOOS Integration**

Project Manager: **Anderson, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
702100	1500	Capital Item > \$5,000 Unit Cost	animal tags (5/12 of year five amount)		16,114
	5130	Outside Srvc - General	Calibrate sensors, 12 @ \$750 (5/12 of year five budget)		3,750
	5130	Outside Srvc - General	IOOS association dues		1,875
	5130	Outside Srvc - General	small boat rental (5/12 of year five amount)		186
	5130	Outside Srvc - General	software and web licenses (5/12 of year five amount)		1,042
	5160	Outside Srvc - Subaward (\$25k +)	amendments to existing sub-awards to UCLA, UCD, CODAR, UCSC, Axiom, OSU, HSU, SJSU, CalPoly, SFSU		274,730
	5360	Supplies - General	education and outreach supplies (5/12 of year five amount)		1,042
	5360	Supplies - General	supplies (5/12 of year five amount)		1,025
	5500	Travel - Domestic	meeting with consulting companies (5/12 of year five amount)	anderson and Bickel	1,000
	5500	Travel - Domestic	trips to cencoos partners and stakeholders (JSAC) (5/12 of year five amount)	anderson	5,000
Total Expenses					305,764

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
702100	160	SCI-Research Specialist	Bahr, Frederick	External	420
	SCI-Research Specialist				420
	180	SCI-Scientist	Anderson, David	External	400
	SCI-Scientist				400
	185	SCI-Program Support	Bickel, Aric	External	400
		SCI-Program Support	Patterson, Jennifer	External	400
	SCI-Program Support				800
	395	DMO- Marine Ops Tech	Wahl, Christopher	External	292
	DMO- Marine Ops Tech				292
Total Labor Hours					1,912

Ship Time:



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Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
702100					
Total Ship Days					



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Project: **702101** Title: **CeNCOOS Implementation** Project Manager: **Anderson, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
702101	5130	Outside Srvc - General	calibration of sensors 12@ \$750 (spending 7/12 of the year)		5,250
	5130	Outside Srvc - General	IOOS association dues spending 7/12 of the year		2,625
	5130	Outside Srvc - General	small boat rental spending 7/12 of the year		260
	5130	Outside Srvc - General	software and web licenses 7/12 of the year		156,250
	5160	Outside Srvc - Subaward (\$25k +)	Axiom data science support of biodiversity data management		65,000
	5160	Outside Srvc - Subaward (\$25k +)	ten sub-awards, for June-December, minus \$250,000 counted under IDC assuming level funded IOOS award so using amount in current year (last year of existing award) (\$659,351 - \$250,000) x 7/12		238,788
	5161	Outside Srvc - Sub Award (first \$25k)	ten sub-awards on this new award, all spending more than \$25k in there first 7 months, is \$250,000		250,000
	5360	Supplies - General	education and outreach supplies spending 7/12 of the year		1,458
	5360	Supplies - General	supplies spending 7/12 of the year		1,458
	5500	Travel - Domestic	AGU	anderson	1,500
	5500	Travel - Domestic	cencoos council meeting spending 7/12 of the year	cencoos staff and GC	2,900
	5500	Travel - Domestic	host annual JSAC meeting (with SCCOOS)	cencoos staff and jsac	3,000
	5500	Travel - Domestic	Meetings with consulting companies	anderson and Bickel	1,160
	5500	Travel - Domestic	travel to SCCOOS and NANOOS spending 7/12 of the year	anderson	2,333
	5500	Travel - Domestic	travel to summer IOOS meeting	anderson	2,000
	5500	Travel - Domestic	Travel to summer IOOS meeting	Kudela	2,000
	5500	Travel - Domestic	trips to cencoos partners and stakeholders incl. JSAC spending 7/12 of the year	anderson	5,800
Total Expenses					741,782

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
702101	140	SCI-Research Assist	Friederich, Jules	External	66



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
702101	SCI-Research Assist				66
	160	SCI-Research Specialist	Bahr, Frederick	External	325
	SCI-Research Specialist				325
	180	SCI-Scientist	Anderson, David	External	700
	SCI-Scientist				700
	185	SCI-Program Support	Bickel, Aric	External	679
		SCI-Program Support	Patterson, Jennifer	External	850
	SCI-Program Support				1,529
	395	DMO- Marine Ops Tech	Wahl, Christopher	External	320
	DMO- Marine Ops Tech				320
Total Labor Hours					2,940

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
702101					
Total Ship Days					



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Project: **702105**

Title: **ECOHAB**

Project Manager: **Ryan, John**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
702105					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
702105	130	SCI-Post Doc/RA	Bowers, Holly	External	960
	SCI-Post Doc/RA				960
Total Labor Hours					960

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
702105					
Total Ship Days					



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Project: **704106**

Title: **LRAUV Fault Detection**

Project Manager: **Zhang, Y**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
704106	5160	Outside Srv - Subaward (\$25k +)	OSU subaward		100,000
	5360	Supplies - General	MATLAB license renewal		450
	5500	Travel - Domestic	Ben Raanan travels (two trips) to WHOI to report to and discuss with PI Dr. Bellingham.	Ben Raanan	5,000
Total Expenses					105,450

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
704106	205	ENG-Research Specialist	Zhang, Yanwu	External	80
	ENG-Research Specialist				80
	250	ENG-Engineering Assist	Raanan, Ben	External	1,840
	ENG-Engineering Assist				1,840
	350	ENG-Software Eng - Embedded	Kieft, Brian	External	80
		ENG-Software Eng - Embedded	Stanway, Michael	External	80
	ENG-Software Eng - Embedded				160
	Total Labor Hours				2,080

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
704106					
Total Ship Days					



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Project: **706001**

Title: **Great Lakes LRAUV**

Project Manager: **Kieft, Brian**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
706001	5200	Postage / Shipping	Shipping		6,000
	5500	Travel - Domestic	Travel to/from Lake Michigan	Brian Kieft, Brett Hobson	7,962
Total Expenses					13,962

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
706001	270	ENG-Electrical Tech	Coenen, Paul	External	50
	ENG-Electrical Tech				50
	300	ENG-Mechanical Engineer	Hobson, Brett	External	33
	ENG-Mechanical Engineer				33
	350	ENG-Software Eng - Embedded	Kieft, Brian	External	200
	ENG-Software Eng - Embedded				200
Total Labor Hours					283

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
706001					
Total Ship Days					



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Project: **708110** Title: **Harmful Algal Blooms** Project Manager: **Anderson, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708110	5500	Travel - Domestic	Travel to Santa Cruz to coordinate with operationalizing forecast (working meetings, computer code)	Bahr and Patterson	800
Total Expenses					800

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708110	160	SCI-Research Specialist	Bahr, Frederick	External	180
	SCI-Research Specialist				180
	185	SCI-Program Support	Patterson, Jennifer	External	50
	SCI-Program Support				50
Total Labor Hours					230

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708110					
Total Ship Days					



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Project: **708115** Title: **Imaging Flow Cytobot SFB** Project Manager: **Anderson, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708115	5160	Outside Srv - Subaward (\$25k +)	Axiom Data Science for data management		40,000
	5500	Travel - Domestic	Travel to UCSC (Santa Cruz) (5 trips), USGS Menlo Park (5 trips), one staff to one annual meeting	cencoos staff	769
Total Expenses					40,769

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708115	160	SCI-Research Specialist	Bahr, Frederick	External	41
	SCI-Research Specialist				41
	180	SCI-Scientist	Anderson, David	External	41
	SCI-Scientist				41
	185	SCI-Program Support	Bickel, Aric	External	41
		SCI-Program Support	Patterson, Jennifer	External	41
	SCI-Program Support				82
Total Labor Hours					164

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708115					
Total Ship Days					



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Project: **708116** Title: **SOCOM APEX/ISIS Spectrophoto/Deep-sea Durafet Sensors** Project Manager: **Johnson, Ken**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708116	1500	Capital Item > \$5,000 Unit Cost	Sensor construction		159,600
	5200	Postage / Shipping	Sensors to Seattle		5,500
	5360	Supplies - General	Non-capital sensor components		99,750
	5500	Travel - Domestic	Seattle and SOCCOM meetings	Ken Johnson	5,700
Total Expenses					270,550

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708116	160	SCI-Research Specialist	Jannasch, Hans	External	300
		SCI-Research Specialist	Sakamoto, Carole	External	300
	SCI-Research Specialist				600
	170	SCI-Research Tech	Coletti, Luke	External	400
		SCI-Research Tech	Elrod, Virginia	External	150
		SCI-Research Tech	Plant, Joshua	External	150
	SCI-Research Tech				700
	180	SCI-Scientist	Johnson, Kenneth	External	150
	SCI-Scientist				150
	270	ENG-Electrical Tech		External	75
	ENG-Electrical Tech				75
	280	ENG-Mechanical Tech		External	75
	ENG-Mechanical Tech				75
	Total Labor Hours				1,600

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708116					
Total Ship Days					



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Project: **708117**

Title: **Pacific NW HABS ESP**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708117	5360	Supplies - General	Copied from Projection System		24,000
Total Expenses					24,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708117	170	SCI-Research Tech	Marin III, Roman	External	80
	SCI-Research Tech				80
	210	ENG-Electrical Engineer	Jensen, Scott	External	80
	ENG-Electrical Engineer				80
	350	ENG-Software Eng - Embedded	Roman, Brent	External	160
	ENG-Software Eng - Embedded				160
Total Labor Hours					320

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708117					
Total Ship Days					



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Project: **708118**

Title: **Iceberg AUV**

Project Manager: **Hobsen, Brett**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708118	5120	Outside Svc - External Ship Time	Copied from Projection System		71,127
	5200	Postage / Shipping	Copied from Projection System		27,500
	5360	Supplies - General	Copied from Projection System		5,350
	5530	Travel - Foreign	Copied from Projection System		18,800
	9755	AUV Allocation	Copied from Projection System		84,000
Total Expenses					206,777

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708118	300	ENG-Mechanical Engineer	Hobson, Brett	External	240
	ENG-Mechanical Engineer				240
	350	ENG-Software Eng - Embedded	Henthorn, Richard	External	80
		ENG-Software Eng - Embedded	McEwen, Robert	External	240
	ENG-Software Eng - Embedded				320
	355	ENG-Software Eng - Info Eng	Caress, David	External	240
	ENG-Software Eng - Info Eng				240
	390	DMO-AUV Support	Thomas, Hans	External	280
	DMO-AUV Support				280
	Total Labor Hours				1,080

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708118	OTHER	28	External Ship	10.0	0.0
Total Ship Days				10	0



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Project: **708120** Title: **West Coast Headlights aka OA OTT** Project Manager: **Anderson, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708120	5360	Supplies - General	outreach materials		375
	5500	Travel - Domestic	Travel to NANOOS in Seattle to coordinate products and outreach	cencoos staff	1,413
Total Expenses					1,788

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708120	180	SCI-Scientist	Anderson, David	External	100
	SCI-Scientist				100
	185	SCI-Program Support	Bickel, Aric	External	240
		SCI-Program Support	Patterson, Jennifer	External	240
	SCI-Program Support				480
Total Labor Hours					580

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708120					
Total Ship Days					



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Project: **708122**

Title: **MBON**

Project Manager: **Chavez, Francisco**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708122	5360	Supplies - General	Genomic analysis		30,000
	5500	Travel - Domestic	Travel to MBON meetings	Chavez, collaborators	10,000
	5500	Travel - Domestic	Travel to MBON principal investigator meeting at USF, St. Petersburg	Anderson	1,000
Total Expenses					41,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708122	140	SCI-Research Assist	Walz, Kristine	External	900
	SCI-Research Assist				900
	160	SCI-Research Specialist	Bahr, Frederick	External	160
		SCI-Research Specialist	Messie, Monique	External	450
		SCI-Research Specialist	Yamahara, Kevan	External	160
	SCI-Research Specialist				770
	180	SCI-Scientist	Anderson, David	External	80
	SCI-Scientist				80
	185	SCI-Program Support	Bickel, Aric	External	80
		SCI-Program Support	Patterson, Jennifer	External	160
	SCI-Program Support				240
Total Labor Hours					1,990

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708122					
Total Ship Days					



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Project: **708123**

Title: **TUNA**

Project Manager: **Hamilton, Andy**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708123	5500	Travel - Domestic	One Trip to UW-APL	Andrew Hamilton	1,200
Total Expenses					1,200

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708123	300	ENG-Mechanical Engineer	Hamilton, John	External	150
ENG-Mechanical Engineer					150
Total Labor Hours					150

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708123					
Total Ship Days					



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Project: **708124**

Title: **earthcube xdomes**

Project Manager: **Rueda, Carlos**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708124	5500	Travel - Domestic	Two travels budgeted per year: (1) ESIP (or similar) meeting: Location: Madison, WI. Registration fee: \$400.00 (2) X-DOMES team meeting: Location: Boulder, CO.	Carlos Rueda-Velasquez	5,000
Total Expenses					5,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708124	355	ENG-Software Eng - Info Eng	Rueda-Velasquez, Carlos	External	380
ENG-Software Eng - Info Eng					380
Total Labor Hours					380

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708124					
Total Ship Days					



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Project: **708126** Title: **High V3s 21st C Ed** Project Manager: **Matsumoto, George**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708126	5130	Outside Srvc - General	\$2,000 Field trip during workshop		2,000
	5130	Outside Srvc - General	Support for independent contractor Jennifer Magnusson		30,000
	5155	Participant Support	food for all participants during workshop		7,500
	5155	Participant Support	stipends for participant \$450/participant, 20 participants		9,000
	5360	Supplies - General	3,000 Workshop supplies (notebooks, pens, etc)_		3,000
	5500	Travel - Domestic	Scientific/educational meeting travel for Aric Bickel or George Matsumoto	Aric Bickel	3,000
	5500	Travel - Domestic	travel for contractor Jennifer Magnusson for web support	Jennifer Magnusson	1,500
	5500	Travel - Domestic	travel for workshop support	Bickel or Matsumoto	1,500
	5500	Travel - Domestic	Travel support for educators/staff to attend this workshop. includes travel, lodging	Educators	28,500
Total Expenses					86,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708126	180	SCI-Scientist	Chavez, Francisco	External	0
	SCI-Scientist				0
	185	SCI-Program Support	Bickel, Aric	External	400
	SCI-Program Support				400
	450	ITD-Admin Support	Matsumoto, George	External	160
	ITD-Admin Support				160
Total Labor Hours					560

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708126					
Total Ship Days					



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Project: **708127**

Title: **ESP Lake Erie**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708127	5500	Travel - Domestic	Copied from Projection system	TBD	7,000
Total Expenses					7,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708127	170	SCI-Research Tech	Marin III, Roman	External	200
	SCI-Research Tech				200
	350	ENG-Software Eng - Embedded	Roman, Brent	External	100
	ENG-Software Eng - Embedded				100
Total Labor Hours					300

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708127					
Total Ship Days					



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Project: **708128**

Title: **Biolum Brain Imaging**

Project Manager: **Haddock, Steve**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708128	5430	Training / Tuition	UCSC 1 quarter of tuition		5,640
	5500	Travel - Domestic	Airfare and hotel for collaboration travel from MBARI/Yale/Pierce	Steve Haddock	1,160
Total Expenses					6,800

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708128	105	SCI-Grad Res Assist		External	690
	SCI-Grad Res Assist				690
	130	SCI-Post Doc/RA		External	1,840
	SCI-Post Doc/RA				1,840
Total Labor Hours					2,530

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708128					
Total Ship Days					



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Project: **708129**

Title: **Monitor HAB AutoBiosensor**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708129	5360	Supplies - General	Copied from Projection system		2,000
	5500	Travel - Domestic	Copied from Projection system	TBD	2,000
Total Expenses					4,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708129	295	ENG-Mechanical Eng-Division	Birch, James	External	20
	ENG-Mechanical Eng-Division				20
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	External	320
		ENG-Software Eng - Info Eng	Schlining, Brian	External	60
	ENG-Software Eng - Info Eng				380
Total Labor Hours					400

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708129					
Total Ship Days					



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Project: **708602**

Title: **C-MORE Scholin**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
708602	5360	Supplies - General	Cartridges		70,000
	5500	Travel - Domestic	Travel to HI	Birch	2,000
Total Expenses					72,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
708602					
Total Labor Hours					

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
708602					
Total Ship Days					



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Project: **800107** Title: **Micro & PCR mods for ESP**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800107	5360	Supplies - General	Copied from Projection System		5,000
	5500	Travel - Domestic	Copied from Projection System		2,000
Total Expenses					7,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800107	160	SCI-Research Specialist	Yamahara, Kevan	External	320
	SCI-Research Specialist				320
	300	ENG-Mechanical Engineer	Pargett, Douglas	External	80
	ENG-Mechanical Engineer				80
Total Labor Hours					400

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800107					
Total Ship Days					



2016 Project Budget

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Project: **800120**

Title: **New Investigator Award**

Project Manager: **Worden, Alex**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800120	5360	Supplies - General	Copied from Projection system		5,000
	5430	Training / Tuition	Copied from Projection system		5,500
	5500	Travel - Domestic	Copied from Projection system	TBD	2,000
Total Expenses					12,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800120	105	SCI-Grad Res Assist	Limardo, Alexander	External	260
	SCI-Grad Res Assist				260
	170	SCI-Research Tech	Sudek, Lisa	External	347
	SCI-Research Tech				347
Total Labor Hours					607

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800120					
Total Ship Days					



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Project: **800121** Title: **R&D 3 spp of cephalopods**

Project Manager: **Bush, Stephanie**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800121	5130	Outside Svc - General	We are asking for funds in order to hire a scientific illustrator to prepare line drawings for the species description (see scope of work 2016) as well as the charges for the publication of both articles		2,000
	5360	Supplies - General	expendable supplies to do some genetic work on the specimens of Opisthoteuthis 'adorabilis' and Opisthoteuthis cf. californiana		2,000
	5500	Travel - Domestic	ASLO 2016 . I will present the work that I've been doing with the MBA Tentacles Exhibit team on the as yet undescribed flapjack octopus Opisthoteuthis sp ('adorabilis'). - Airfare	Stephanie Bush	650
	5500	Travel - Domestic	ASLO 2016 . I will present the work that I've been doing with the MBA Tentacles Exhibit team on the as yet undescribed flapjack octopus Opisthoteuthis sp ('adorabilis'). - Registration	Stephanie Bush	500
	5500	Travel - Domestic	ASLO 2016 . I will present the work that I've been doing with the MBA Tentacles Exhibit team on the as yet undescribed flapjack octopus Opisthoteuthis sp ('adorabilis'). -Food	Stephanie Bush	560
	5500	Travel - Domestic	ASLO 2016 . I will present the work that I've been doing with the MBA Tentacles Exhibit team on the as yet undescribed flapjack octopus Opisthoteuthis sp ('adorabilis'). -Hotel	Stephanie Bush	1,120
	5500	Travel - Domestic	ASLO 2016 . I will present the work that I've been doing with the MBA Tentacles Exhibit team on the as yet undescribed flapjack octopus Opisthoteuthis sp ('adorabilis'). -parking	Stephanie Bush	105
	5500	Travel - Domestic	Misc	Stephanie Bush	65
Total Expenses					7,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800121	130	SCI-Post Doc/RA	Bush, Stephanie	External	1,840
		SCI-Post Doc/RA			1,840
Total Labor Hours					1,840

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800121					
Total Ship Days					



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Project: **800122** Title: **Santa Monica Basin Survey**

Project Manager: **Paul, Charlie**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800122	5360	Supplies - General	stipend for postdoc		3,000
	5500	Travel - Domestic	Austin meeting for partial deliveries of project	TBD Postdoc	2,000
Total Expenses					5,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800122	130	SCI-Post Doc/RA		External	1,000
		SCI-Post Doc/RA			1,000
Total Labor Hours					1,000

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800122					
Total Ship Days					



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Project: **800123**

Title: **ESP Applications**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800123	5360	Supplies - General	Copied from Projection System		3,500
Total Expenses					3,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800123	170	SCI-Research Tech	Marin III, Roman	External	160
	SCI-Research Tech				160
	210	ENG-Electrical Engineer	Jensen, Scott	External	40
	ENG-Electrical Engineer				40
	300	ENG-Mechanical Engineer	Pargett, Douglas	External	320
	ENG-Mechanical Engineer				320
	350	ENG-Software Eng - Embedded	Roman, Brent	External	120
	ENG-Software Eng - Embedded				120
Total Labor Hours					640

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800123					
Total Ship Days					



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Project: **800126**

Title: **Arctic Ocean Edge**

Project Manager: **Paull, Charlie**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
800126	5200	Postage / Shipping	Airfreight cost of AUV(s) to Cambridge Bay, NWT, Canada		20,000
Total Expenses					20,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
800126					
Total Labor Hours					

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
800126	OTHER	28	External Ship	7.0	6.0
Total Ship Days				7	6



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Project: **808001**

Title: **Life on the dark side**

Project Manager: **Worden, Alex**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
808001					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours	
808001	130	SCI-Post Doc/RA	Choi, Chang Jae	External	1,387	
		SCI-Post Doc/RA	Gutowska, Magdalena	External	867	
	SCI-Post Doc/RA				2,254	
	170	SCI-Research Tech	Sudek, Lisa	External	434	
		SCI-Research Tech				434
		Total Labor Hours				2,688

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
808001					
Total Ship Days					



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Project: **808002**

Title: **VirNuts**

Project Manager: **Worden, Alex**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
808002	5130	Outside Svc - General	Copied from Projection system		4,100
	5210	Printing / Publication	Copied from Projection system		7,000
	5360	Supplies - General	Copied from Projection system		42,000
	5430	Training / Tuition	Copied from Projection system		22,000
	5500	Travel - Domestic	Copied from Projection system	TBD	4,000
Total Expenses					79,100

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
808002	105	SCI-Grad Res Assist	Jimenez Thamm, Valeria	External	434
		SCI-Grad Res Assist	Limardo, Alexander	External	1,127
	SCI-Grad Res Assist				1,561
	130	SCI-Post Doc/RA	Bachy, Charles	External	1,560
		SCI-Post Doc/RA	Zimmerman, Amy	External	1,560
	SCI-Post Doc/RA				3,120
	Total Labor Hours				4,681

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
808002					
Total Ship Days					



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Project: **808003**

Title: **CBI ESP**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
808003	5160	Outside Svc - Subaward (\$25k +)	Copied from Projection System		200,000
	5360	Supplies - General	Copied from Projection System		5,000
	5500	Travel - Domestic	Copied from Projection System		2,000
	9790	Lab Facility Fee	Copied from Projection System		30,700
Total Expenses					237,700

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
808003	160	SCI-Research Specialist	Yamahara, Kevan	External	1,440
		SCI-Research Specialist			1,440
Total Labor Hours					1,440

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
808003					
Total Ship Days					



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Project: **808005**

Title: **Hull Canyon Dyamics**

Project Manager: **Paull, Charlie**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
808005					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
808005					
Total Labor Hours					

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
808005	OTHER	24	Western Flyer	4.0	0.0
	OTHER	25	Rachel Carson (10 hour day)	5.0	0.0
Total Ship Days				9	0



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Project: **808006**

Title: **NOS Canyon Dynamics**

Project Manager: **Paul, Charlie**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
808006					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
808006					
Total Labor Hours					

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
808006	OTHER	24	Western Flyer	4.0	0.0
	OTHER	25	Rachel Carson (10 hour day)	5.0	0.0
Total Ship Days				9	0



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Project: **900736**

Title: **MB-System**

Project Manager: **Caress, David**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
900736	5340	Supplies - Food	Breakfast and lunch during the MB-System Users Workshop, plus other incidental expenses running this workshop.		1,200
Total Expenses					1,200

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
900736	355	ENG-Software Eng - Info Eng	Caress, David	Packard	240
		ENG-Software Eng - Info Eng			240
Total Labor Hours					240

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
900736					
Total Ship Days					



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Project: **901007**

Title: **Benthic Biology & Ecology**

Project Manager: **Barry, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901007	5020	Books / Subscriptions	Misc. books, subscriptions		500
	5030	Conference Fees / Registration	High CO2 Conference	Lovera	750
	5030	Conference Fees / Registration	High CO2 Conference, Hobart, Australia	Barry	750
	5060	Dues / Membership / Licenses	License renewal for LabView and other software		3,000
	5090	Maintenance and Repair	Recalibration, repair of optodes, other sensors, etc.		5,000
	5130	Outside Srvc - General	Microscopy Services		2,000
	5130	Outside Srvc - General	Sediment analyses \$25 x 130		3,250
	5130	Outside Srvc - General	Taxonomy consulting		2,000
	5300	Supplies - Computer (Hardware)	Computer hardware, components for upwelling simulation aquarium modifications		6,500
	5310	Supplies - Computer (Software)	Software & upgrades		3,000
	5330	Supplies - Non-Capitalized Equipment	Equipment for Upwelling aquarium system (sensors, pumps, heaters, etc.), BRS supplies		15,000
	5360	Supplies - General	General cruise supplies		5,000
	5380	Supplies - Science Lab	Analytical supplies for BRS, Climate studies.		7,500
	5380	Supplies - Science Lab	Misc. Science supplies for experiment design, etc.		4,500
	5500	Travel - Domestic	Misc local travel	Various	500
	5530	Travel - Foreign	Travel support for High CO2 meeting, Hobart, AU	Barry	3,500
	5530	Travel - Foreign	Travel to High Co2 Meeting	Kurt Buck	3,500
	5530	Travel - Foreign	Travel to High CO2 Meeting	Lovera	3,500
	5530	Travel - Foreign	Travel to national meeting	Patrick Whaling	1,500
Total Expenses					71,250

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901007	130	SCI-Post Doc/RA		Packard	1,840
	SCI-Post Doc/RA				1,840
	160	SCI-Research Specialist	Buck, Kurt	Packard	1,840
	SCI-Research Specialist				1,840
	170	SCI-Research Tech	Lovera, Christopher	Packard	1,200



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901007	170	SCI-Research Tech	Whaling, Patrick	Packard	1,104
	SCI-Research Tech				2,304
	180	SCI-Scientist	Barry, James	Packard	1,520
	SCI-Scientist				1,520
	210	ENG-Electrical Engineer	Kecy, Chad	Packard	200
		ENG-Electrical Engineer	Okuda, Craig	Packard	64
	ENG-Electrical Engineer				264
	270	ENG-Electrical Tech		Packard	120
	ENG-Electrical Tech				120
	280	ENG-Mechanical Tech	Ferreira, John	Packard	32
		ENG-Mechanical Tech		Packard	72
	ENG-Mechanical Tech				104
	290	ENG-Machinist		Packard	40
	ENG-Machinist				40
	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	240
	ENG-Mechanical Eng-Mfg				240
	350	ENG-Software Eng - Embedded	Herlien, Robert	Packard	24
	ENG-Software Eng - Embedded				24
	395	DMO- Marine Ops Tech		Packard	40
	DMO- Marine Ops Tech				40
	470	ITD-Video Support	Kuhn, Linda	Packard	200
	ITD-Video Support				200
Total Labor Hours					8,536

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901007	MBARI	24	Western Flyer	9.0	0.0
	MBARI	25	Rachel Carson (10 hour day)	9.0	0.0
	MBARI	29	Paragon	4.0	
	NOAA	24	Western Flyer	1.0	0.0
Total Ship Days				23	0



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Project: **901009**

Title: **CANON**

Project Manager: **Chavez, Francisco**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901009	5110	Outside Srvc - Software Design/Programming	Axiom will support the display of data sets for the ODSS		15,000
	5360	Supplies - General	Electronics for HiPP		2,500
	5360	Supplies - General	Parts for Lagrangian sediment trap floats		10,000
	5360	Supplies - General	Supplies for CANON cruise/experiments		5,000
Total Expenses					32,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901009	160	SCI-Research Specialist	Messie, Monique	Packard	200
		SCI-Research Specialist	Ryan, John	Packard	366
	SCI-Research Specialist				566
	210	ENG-Electrical Engineer	Klimov, Denis	Packard	15
		ENG-Electrical Engineer	McGill, Paul	Packard	200
		ENG-Electrical Engineer	Mellinger, Edward	Packard	15
	ENG-Electrical Engineer				230
	270	ENG-Electrical Tech	Coenen, Paul	Packard	200
	ENG-Electrical Tech				200
	280	ENG-Mechanical Tech		Packard	200
	ENG-Mechanical Tech				200
	290	ENG-Machinist		Packard	120
	ENG-Machinist				120
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	15
	ENG-Mechanical Engineer				15
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	200
	ENG-Mechanical Eng-Mfg				200
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	80
		ENG-Software Eng - Embedded	Maughan, Thomas	Packard	300
		ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	320
ENG-Software Eng - Embedded		Stanway, Michael	Packard	80	
ENG-Software Eng - Embedded				780	
355	ENG-Software Eng - Info Eng	Cline, Danelle	Packard	400	
	ENG-Software Eng - Info Eng	Edgington, Duane	Packard	380	



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901009	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	300
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	80
		ENG-Software Eng - Info Eng	Rueda-Velasquez, Carlos	Packard	350
	ENG-Software Eng - Info Eng				1,510
	390	DMO-AUV Support		Packard	160
	DMO-AUV Support				160
	395	DMO- Marine Ops Tech	Rienecker, Erich	Packard	160
	DMO- Marine Ops Tech				160
	Total Labor Hours				4,141

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901009	MBARI	24	Western Flyer	10.0	0.0
	MBARI	29	Paragon	25.0	
Total Ship Days				35	0



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Project: **901023** Title: **Continental Margin Process** Project Manager: **Gwiazda, Roberto**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901023	5030	Conference Fees / Registration	Activity 3 -Continuing work and ongoing analyses: Registration AGU meeting	Eve Lundsten	525
	5030	Conference Fees / Registration	Activity 3 -Continuing work and ongoing analyses: Registration AGU meeting-	Krystle Anderson	525
	5030	Conference Fees / Registration	Activity 3 -Continuing work and ongoing analyses: Registration AGU meeting-	Roberto Gwiazda	525
	5060	Dues / Membership / Licenses	Activity 3 -Continuing work and ongoing analyses: AGU annual dues X 4		200
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: 14C analyses 40 @ \$330/each		13,200
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: MINI GC 2 repair		2,500
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: Oxygen and Carbon isotopic analyses, 30 @ \$30		900
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: Sr isotopic analyses, 10 @ \$140		1,400
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: Sulfur isotopic analyses, 10 @ \$120		1,200
	5130	Outside Srvc - General	Activity 3 -Continuing work and ongoing analyses: Thin Sections, 10 @ \$50		500
	5130	Outside Srvc - General	CCE - Argos beacons on BEDS - telemetry costs		7,500
	5130	Outside Srvc - General	CCE - Telemetry on STEDS		500
	5170	Outside Srvc - Equip Rental	CCE - Rental of LiDAR system from 3Datdepth for 2 LiDAR mapping cruises of 3 days each on the Western Flyer		33,000
	5200	Postage / Shipping	Activity 2- Arctic cruise: AUV and Mini-ROV shipping		15,000
	5200	Postage / Shipping	Activity 3 -Continuing work and ongoing analyses: Sample shipping		2,000
	5310	Supplies - Computer (Software)	Activity 3 -Continuing work and ongoing analyses: Software upgrades		1,500
	5320	Supplies - Engineering Lab	CCE - BIN node servicing supplies		5,000
	5320	Supplies - Engineering Lab	CCE - General servicing of instruments		20,000
	5320	Supplies - Engineering Lab	CCE - Li Disposal cost		2,774



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901023	5320	Supplies - Engineering Lab	CCE - Lithium batteries		48,682
	5360	Supplies - General	CCE - MacLane profiler supplies and service		10,000
	5360	Supplies - General	CCE - Sediment traps moorings and deployment hardware (1300m, 1900m moorings) x 2 services		17,000
	5380	Supplies - Science Lab	Activity 3 -Continuing work and ongoing analyses: Lab supplies		5,000
	5380	Supplies - Science Lab	Activity 3 -Continuing work and ongoing analyses: Optically stimulated luminescence analyses, sample preparation costs and shipping		1,000
	5500	Travel - Domestic	Activity 3 -Continuing work and ongoing analyses: AGU 2015 annual meeting	Gwiazda, Roberto	700
	5500	Travel - Domestic	Activity 3 -Continuing work and ongoing analyses: AGU 2015 annual meeting	Krystle Anderson	700
	5500	Travel - Domestic	Activity 3 -Continuing work and ongoing analyses: AGU 2015 annual meeting	Lundsten, Eve	700
	5500	Travel - Domestic	MBARI-USGS transportation	Gwiazda, Roberto	2,000
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Conlin, Doug	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Dave Caress	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Graves	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Gwiazda, Roberto	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Lundsten, Lonny	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Paull, Charles	2,200
	5530	Travel - Foreign	Activity 2- Arctic cruise: Travel for 7 people to the Arctic to meet icebreaker Laurier	Thomas, Hans	2,200
	5530	Travel - Foreign	Activity 3 -Continuing work and ongoing analyses: International Geological Congress, South Africa	Paull, Charles	4,800
Total Expenses					214,731

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901023	210	ENG-Electrical Engineer	Chaffey, Mark	Packard	800
		ENG-Electrical Engineer	Klimov, Denis	Packard	80
		ENG-Electrical Engineer	Martin, Eric	Packard	48
	ENG-Electrical Engineer				928
	270	ENG-Electrical Tech	Coenen, Paul	Packard	40
	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech	Ferreira, John	Packard	120



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901023	280	ENG-Mechanical Tech	Flores, Frank	Packard	40
		ENG-Mechanical Tech	Scholfield, James	Packard	80
	ENG-Mechanical Tech				240
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	32
	ENG-Mechanical Engineer				32
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	320
		ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	280
	ENG-Mechanical Eng-Mfg				600
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	48
		ENG-Software Eng - Embedded	Herlien, Robert	Packard	80
		ENG-Software Eng - Embedded	Kieft, Brian	Packard	144
		ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	320
		ENG-Software Eng - Embedded	Risi, Michael	Packard	48
	ENG-Software Eng - Embedded				640
	355	ENG-Software Eng - Info Eng	Caress, David	Packard	432
		ENG-Software Eng - Info Eng	Edgington, Duane	Packard	180
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	480
	ENG-Software Eng - Info Eng				1,092
	380	DMO-Shore/Admin Support	Cardoza, Teresa	Packard	40
	DMO-Shore/Admin Support				40
	390	DMO-AUV Support	Conlin, Douglas	Packard	352
		DMO-AUV Support	Thomas, Hans	Packard	320
		DMO-AUV Support	Thompson, Duane	Packard	32
	DMO-AUV Support				704
	410	DMO-Doc Ricketts Support		Packard	20
	DMO-Doc Ricketts Support				20
	420	DMO-Ventana Support		Packard	20
	DMO-Ventana Support				20
	470	ITD-Video Support	Lundsten, Lonny	Packard	200
	ITD-Video Support				200
Total Labor Hours					4,556

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901023	MBARI	24	Western Flyer	12.0	0.0
	MBARI	25	Rachel Carson (10 hour day)	4.0	0.0
	MBARI	27	Rachel Carson (24 hour day)	6.0	0.0



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Labor Hours:

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901023	MBARI	29	Paragon	16.0	
Total Ship Days				38	0



2016 Project Budget

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Project: **901024**

Title: **Submarine Volcanism**

Project Manager: **Paduan, Jennifer**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901024	5020	Books / Subscriptions	Scientific Books and subscriptions		250
	5030	Conference Fees / Registration	AGU abstract and registration (4 x \$500)	Clague, Paduan, La Saout, Dreyer	2,000
	5060	Dues / Membership / Licenses	Dues/Membership for AGU for Clague, Paduan, LeSaout, Dreyer (\$50/each)		200
	5130	Outside Srvc - General	Ar-Ar analyses at Oregon State University for seamount and Alarcon Rise samples at Oregon (15 samples at \$750/each)		11,250
	5130	Outside Srvc - General	Electron microprobe usage at UC Davis for glass analyses from Alarcon and Axial Volcano samples		15,000
	5130	Outside Srvc - General	ICP-MS analyses at UCSC for 60 samples from Axial Seamount and Alarcon Rise		2,000
	5130	Outside Srvc - General	Preparations of thin sections of rocks		2,000
	5130	Outside Srvc - General	Process forams for Alarcon and Axial volcano radiocarbon dating, 30 samples @ \$50 each		1,500
	5130	Outside Srvc - General	Radiocarbon ages on forams from Alarcon at Lawrence Livermore (30 @ \$350)		10,500
	5130	Outside Srvc - General	Radiogenic isotopic analyses for Sr, Nd, and Pb for 8 Alarcon Rise samples (\$750/each)		6,000
	5200	Postage / Shipping	Postage and Shipping		1,000
	5300	Supplies - Computer (Hardware)	Hard drives for AUV mapping		400
	5310	Supplies - Computer (Software)	Maintain graphics software on 6 project computers		5,000
	5360	Supplies - General	General miscellaneous supplies		250
	5370	Supplies - Office	Office supplies		300
	5380	Supplies - Science Lab	10 long core tubes, machined		3,300
	5380	Supplies - Science Lab	Restock rested seagoing tools		250
	5380	Supplies - Science Lab	Restock sample bags, bottles, vials, core end caps, ethanol etc.		2,000
	5380	Supplies -	Supplies for packaging samples for the Smithsonian		2,000



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901024		Science Lab			
	5500	Travel - Domestic	Airfare, hotel for 2 nights, local transportation, and meals for Dave Caress' participation on Carson/AUV mapping leg Newport, OR	Caress	2,000
	5500	Travel - Domestic	Airfare, hotel, local transportation and meals for MBARI participants on Western Flyer leg of Axial Volcano	Clague, Paduan, Dreyer, Kuhn, L. Lundsten, LeSaout	3,000
	5500	Travel - Domestic	Hotel, meals, transport for AGU meeting in San Francisco	Clague, Paduan, La Saout, Dreyer	6,000
	5500	Travel - Domestic	Local travel to USGS, UCSC to use analytical equipment	Clague	200
	5500	Travel - Domestic	Mileage and meals at UC Davis while using electron microprobe	Clague	600
Total Expenses					77,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901024	130	SCI-Post Doc/RA		Packard	1,840
	SCI-Post Doc/RA				1,840
	160	SCI-Research Specialist	Paduan, Jennifer	Packard	1,840
	SCI-Research Specialist				1,840
	170	SCI-Research Tech	Dreyer, Brian	Packard	920
	SCI-Research Tech				920
	180	SCI-Scientist	Clague, David	Packard	1,840
	SCI-Scientist				1,840
	355	ENG-Software Eng - Info Eng	Caress, David	Packard	200
	ENG-Software Eng - Info Eng				200
Total Labor Hours					6,640

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901024	MBARI	24	Western Flyer	8.0	8.0
	MBARI	27	Rachel Carson (24 hour day)	13.0	10.0
Total Ship Days				21	18



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Project: **901026** Title: **Molecular Ecology & Evolution** Project Manager: **Johnson Williams, Shannon**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901026	5020	Books / Subscriptions	Subscriptions for professional journals and specialized laboratory manuals		600
	5030	Conference Fees / Registration	Registration for ASLO Ocean Sciences meeting in New Orleans, LA	Julio Harvey	500
	5030	Conference Fees / Registration	Registration for ISME in Montreal, Canada	Bob Vrijenhoek	500
	5030	Conference Fees / Registration	Registration for ISME in Montreal, Canada	Shannon Johnson	500
	5060	Dues / Membership / Licenses	Society dues and memberships		600
	5090	Maintenance and Repair	Fees for maintaining and repairing freezers, refrigerators, centrifuges, and thermal cyclers		3,000
	5130	Outside Srvc - General	Illumina amplicon and RAD sequencing at Stanford Functional Genomics Facility		4,900
	5200	Postage / Shipping	Shipping specimens to museums and collaborators for identification		2,000
	5310	Supplies - Computer (Software)	Software upgrades for Geneious, Endnote, Adobe CS suite, etc.		4,000
	5380	Supplies - Science Lab	Agencourt PCR cleanup magnetic beads		5,600
	5380	Supplies - Science Lab	Consumable plastics for lab work including PCR tubes, strips, plates, gloves, tips, etc.		12,000
	5380	Supplies - Science Lab	NGS sequencing kits		7,530
	5380	Supplies - Science Lab	Oligonucleotide primers		3,000
	5380	Supplies - Science Lab	Qiagen DNA extraction kit		3,300
	5380	Supplies - Science Lab	RAD sequencing library preparation kit		1,000
	5380	Supplies - Science Lab	Sanger PCR and sequencing reagents		12,000
	5500	Travel - Domestic	Travel to present manuscript at Ocean Sciences 2016 in New Orleans, LA, airfare (SFO->MSY) \$300, lodging \$107/night, meals \$71/day.	Julio Harvey	1,700
	5530	Travel - Foreign	Travel, lodging, and meals to attend 2016 International Polychaete Conference in Cardiff, Wales (SFO->CWL \$1500), Hotel \$208/night, Meals \$100/day.	Bob Vrijenhoek	3,500
	5530	Travel - Foreign	Travel, lodging, and meals to attend 2016 International Polychaete Conference in	Shannon Johnson	3,500



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901026			Cardiff, Wales (SFO->CWL \$1500), Hotel \$208/night, Meals \$100/day.		
Total Expenses					69,730

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901026	170	SCI-Research Tech	Harvey, Julio	Packard	1,840
		SCI-Research Tech	Johnson Williams, Shannon	Packard	1,840
	SCI-Research Tech				3,680
	180	SCI-Scientist	Vrijenhoek, Robert	Packard	1,840
	SCI-Scientist				1,840
	355	ENG-Software Eng - Info Eng	McCann, Michael	Packard	500
ENG-Software Eng - Info Eng					500
Total Labor Hours					6,020

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901026	MBARI	24	Western Flyer	3.0	0.0
Total Ship Days				3	0



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Project: **901101**

Title: **Ocean Imaging**

Project Manager: **Caress, David**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901101	1500	Capital Item > \$5,000 Unit Cost	3D at Depth Wide Swath Lidar - purchase, build and factory acceptance test phase		460,282
	5115	Outside Svc - Design Fees	3D at Depth Wide Swath Lidar - Detailed design phase		138,050
	5300	Supplies - Computer (Hardware)	8 TB hard drive		900
	5360	Supplies - General	Connectors for ROV-based low altitude survey system		4,500
	5360	Supplies - General	Control and i/o hardware		5,000
	5360	Supplies - General	Electronics housing		3,000
	5360	Supplies - General	Lease of SL1 lidar from 3DatDepth for two days initial testing of the articulating survey system on ROV Ventana		9,500
	5360	Supplies - General	Motor for sensor package tilt stage		13,500
	5360	Supplies - General	Oil compensated housing		8,000
	5360	Supplies - General	Raw materials - metal and plastic		750
	5360	Supplies - General	Two pan-tilt systems for lights		2,200
	5360	Supplies - General	Wet cables for ROV-based low altitude survey system		2,500
Total Expenses					648,182

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901101	210	ENG-Electrical Engineer	Martin, Eric	External	200
	ENG-Electrical Engineer				200
	270	ENG-Electrical Tech		Packard	40
	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech		Packard	40
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	120
	ENG-Machinist				120
	300	ENG-Mechanical Engineer	Hamilton, John	External	264
	ENG-Mechanical Engineer				264
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	80
	ENG-Mechanical Eng-Mfg				80
	355	ENG-Software Eng - Info Eng	Caress, David	External	280
	ENG-Software Eng - Info Eng				280



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
Total Labor Hours					1,024

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901101	MBARI	25	Rachel Carson (10 hour day)	2.0	0.0
Total Ship Days				2	0



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Project: **901103** Title: **Biodiversity and Biooptics**

Project Manager: **Haddock, Steve**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901103	5030	Conference Fees / Registration	Registration for International Society for Bioluminescence and Chemiluminescence conference , Japan	S. Haddock	500
	5060	Dues / Membership / Licenses	Professional membership for S. Haddock and L. Christianson		400
	5130	Outside Srvc - General	EST transcriptome and genome sequencing		26,000
	5200	Postage / Shipping	Shipping of samples and equipment		1,500
	5300	Supplies - Computer (Hardware)	Computer peripherals and media for data and image processing		2,500
	5310	Supplies - Computer (Software)	Geneious DNA analysis software license upgrade		2,410
	5310	Supplies - Computer (Software)	MATLAB license renewal		2,100
	5310	Supplies - Computer (Software)	Software and upgrades		1,200
	5380	Supplies - Science Lab	ABI DNA Sequencer consumables		24,000
	5380	Supplies - Science Lab	DNA sequencing kits for Sanger sequencing		6,000
	5380	Supplies - Science Lab	Enzymes and lab chemicals		7,500
	5380	Supplies - Science Lab	Lab consumable supplies (pipette tips, PCR plates, gloves, tubes, etc.)		10,000
	5380	Supplies - Science Lab	Molecular biology kits for DNA purification and cloning		15,000
	5530	Travel - Foreign	Airfare to ISBC conference in Tsukuba, Japan	S. Haddock	1,400
	5530	Travel - Foreign	Lodging for ISBC conference, \$200 per night for 6 nights	S. Haddock	1,200
	5530	Travel - Foreign	Meals for ISBC conference	S. Haddock	420
Total Expenses					102,130

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901103	130	SCI-Post Doc/RA		Packard	1,840
	SCI-Post Doc/RA				1,840
	160	SCI-Research Specialist	Messie, Monique	Packard	460
	SCI-Research Specialist				460
	170	SCI-Research Tech	Christianson, Lynne	Packard	1,840
	SCI-Research Tech				1,840
	180	SCI-Scientist	Haddock, Steven	Packard	1,840
	SCI-Scientist				1,840
	270	ENG-Electrical Tech	Rosal, Jose	Packard	40



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901103	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech	Scholfield, James	Packard	16
	ENG-Mechanical Tech				16
	355	ENG-Software Eng - Info Eng	Schlining, Brian	Packard	60
	ENG-Software Eng - Info Eng				60
	400	DMO-Observatory Support		Packard	40
	DMO-Observatory Support				40
	470	ITD-Video Support		Packard	300
	ITD-Video Support				300
Total Labor Hours					6,436

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901103	MBARI	24	Western Flyer	14.0	0.0
	MBARI	25	Rachel Carson (10 hour day)	7.0	0.0
Total Ship Days				21	0



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Project: **901107**

Title: **SeeStar Imaging System**

Project Manager: **Kecy, Chad**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901107	5130	Outside Svc - General	PCB Fabrication		1,000
	5300	Supplies - Computer (Hardware)	Field Laptop		2,500
	5330	Supplies - Non-Capitalized Equipment	Assorted Elec Hardware		500
	5330	Supplies - Non-Capitalized Equipment	Cameras		6,000
	5330	Supplies - Non-Capitalized Equipment	CPU Boards		2,000
	5330	Supplies - Non-Capitalized Equipment	Daughter Boards		1,000
	5330	Supplies - Non-Capitalized Equipment	Lenses		2,000
	5330	Supplies - Non-Capitalized Equipment	Mounting Hardware		500
Total Expenses					15,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901107	210	ENG-Electrical Engineer	Kecy, Chad	Packard	550
	ENG-Electrical Engineer				550
	270	ENG-Electrical Tech		Packard	25
	ENG-Electrical Tech				25
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	175
	ENG-Mechanical Engineer				175
	355	ENG-Software Eng - Info Eng	Cline, Danelle	Packard	150
	ENG-Software Eng - Info Eng				150
Total Labor Hours					900

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901107					
Total Ship Days					



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Project: **901111** Title: **AUV Infrastructure Support**

Project Manager: **Ryan, John**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901111	5300	Supplies - Computer (Hardware)	MacBook Pro laptop computer for at sea Mapping AUV and Ocean Imaging data processing.		3,550
	5310	Supplies - Computer (Software)	Miscellaneous equipment required to support Mapping AUV shipboard operations (e.g.cables, mice, keyboards, hard drives).		500
	5310	Supplies - Computer (Software)	Software upgrades for the Mapping AUV processing computers.		2,500
Total Expenses					6,550

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901111	160	SCI-Research Specialist	Ryan, John	Packard	75
	SCI-Research Specialist				75
	355	ENG-Software Eng - Info Eng	Caress, David	Packard	40
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	80
	ENG-Software Eng - Info Eng				120
Total Labor Hours					195

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901111					
Total Ship Days					



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Project: **901112** Title: **Change in MB and CA Current**

Project Manager: **Pennington, Tim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901112	5130	Outside Srv - General	Subcontract, epifluorescence counts of phytoplankton		21,000
	5130	Outside Srv - General	subcontracts for sample analyses --- POC, N15, HPLC, FCM		10,000
	5130	Outside Srv - General	Wave Glider Iridium costs		10,000
	5310	Supplies - Computer (Software)	Software upgrades or contracts		4,000
	5360	Supplies - General	Cruise equipment, normal upkeep		5,000
	5380	Supplies - Science Lab	General lab supplies and maintenance		5,000
	5380	Supplies - Science Lab	LRAUV Sampler development, supplies		5,000
	5380	Supplies - Science Lab	MBTS cruise supplies, expendable radioactive isotopes (C14)		2,800
	5380	Supplies - Science Lab	MBTS cruise supplies, expendables		6,400
	5380	Supplies - Science Lab	Ocean acidification/exosystem Hot Spot moorings		4,000
	5380	Supplies - Science Lab	pCO2 mapping and TC02, supplies, calibration and maintenance		8,000
	5500	Travel - Domestic	Conference	Michisaki	2,000
	5500	Travel - Domestic	Conference	Pennington	2,000
	5530	Travel - Foreign	Conference	Chavez	2,500
Total Expenses					87,700

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901112	160	SCI-Research Specialist	Messie, Monique	Packard	320
	SCI-Research Specialist				320
	170	SCI-Research Tech	Michisaki, Reiko	Packard	1,840
		SCI-Research Tech	Pennington, John	Packard	1,840
	SCI-Research Tech				3,680
	180	SCI-Scientist	Chavez, Francisco	Packard	1,840
	SCI-Scientist				1,840
	182	SCI-Engineer	Jones, Brent	Packard	1,840
	SCI-Engineer				1,840
	210	ENG-Electrical Engineer	Klimov, Denis	Packard	10
		ENG-Electrical Engineer	McGill, Paul	Packard	100
		ENG-Electrical Engineer	Mellinger, Edward	Packard	10
		ENG-Electrical Engineer	Okuda, Craig	Packard	200



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901112	ENG-Electrical Engineer				320
	290	ENG-Machinist		Packard	100
	ENG-Machinist				100
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	10
	ENG-Mechanical Engineer				10
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	400
	ENG-Mechanical Eng-Mfg				400
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	20
		ENG-Software Eng - Embedded	Stanway, Michael	Packard	20
	ENG-Software Eng - Embedded				40
	390	DMO-AUV Support		Packard	160
	DMO-AUV Support				160
	395	DMO- Marine Ops Tech	Rienecker, Erich	Packard	144
		DMO- Marine Ops Tech	Wahl, Christopher	Packard	120
	DMO- Marine Ops Tech				264
	400	DMO-Observatory Support	Figurski, Jared	Packard	80
	DMO-Observatory Support				80
Total Labor Hours					9,054

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901112	MBARI	25	Rachel Carson (10 hour day)	12.0	0.0
	MBARI	29	Paragon	25.0	
	MBARI	30	Wave Glider	50.0	
Total Ship Days				87	0



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Project: **901114**

Title: **E&D - Primary Producers**

Project Manager: **Worden, Alex**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901114	5020	Books / Subscriptions	lab reference books (likely molecular - or bioinformatics; last year photosynthesis)		300
	5030	Conference Fees / Registration	Registration for the ISME meeting (Montreal Canada), ~840 USD/person	Sebastian Sudek, Camille Poirier, Alexandra Worden	2,520
	5060	Dues / Membership / Licenses	Membership in professional society for Alexandra Worden		175
	5090	Maintenance and Repair	Maintenance contracts for autoclave, influx cytometer, accuri cytometer, bioanalyzer and qPCR machine		43,342
	5130	Outside Svc - General	Sequencing - pilot transcriptomes from deep sea samples, amplicon sequencing for deep sea through surface and pilot arctic samples		30,000
	5200	Postage / Shipping	dry ice shipping of samples		2,000
	5310	Supplies - Computer (Software)	illustrator and omic data analysis		2,500
	5360	Supplies - General	cdNA, PCR, qPCR reagents, enzymes		14,900
	5360	Supplies - General	Cultureware (seriological and plastics)		8,500
	5360	Supplies - General	Expendable plastics (tips, filters, flow cytometry tubes and vials, etc.)		9,000
	5360	Supplies - General	General use supplies - including some cruise supplies		8,000
	5360	Supplies - General	Lifeguard (RNA preservative; very expensive!), molecular biology kits (extraction, clean up, cloning, MDA etc), flow reagents		25,000
	5360	Supplies - General	primers and probes (TSA-FISH, TaqMan)		11,000
	5530	Travel - Foreign	Travel to ISME meeting in Montreal. Alex and Camille will share room (~1000 for the meeting), Sebastian in separate room (~1000); airfares ~710.00 USD each	Sebastian Sudek, Camille Poirier, Alexandra Worden	4,130
Total Expenses					161,367

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901114	160	SCI-Research Specialist	Sudek, Sebastian	Packard	1,840
	SCI-Research Specialist				1,840
	170	SCI-Research Tech	Poirier, Camille	Packard	1,840



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901114	SCI-Research Tech				1,840
	180	SCI-Scientist	Worden, Alexandra	Packard	1,840
	SCI-Scientist				1,840
	210	ENG-Electrical Engineer	Kecy, Chad	Packard	40
		ENG-Electrical Engineer	Klimov, Denis	Packard	150
	ENG-Electrical Engineer				190
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	240
	ENG-Mechanical Eng-Mfg				240
	355	ENG-Software Eng - Info Eng	Schlining, Brian	Packard	40
	ENG-Software Eng - Info Eng				40
	395	DMO- Marine Ops Tech	Conway, Michael	Packard	95
	DMO- Marine Ops Tech				95
Total Labor Hours					6,085

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901114	MBARI	24	Western Flyer	16.0	0.0
Total Ship Days				16	0



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Project: **901200**

Title: **AMP**

Project Manager: **Matsumoto, George**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901200	5130	Outside Srv - General	General Funds for Joint Activities (picnic, events): \$2,000: These funds are requested to support joint activities like the MBARI summer picnic, exhibit openings or closings.		2,000
	5250	Business Meals/ Outreach/ Recognition	Business Meals/Outreach/Recognition—AMP-related meetings: \$300: This will go toward support of meetings to be held at the Aquarium or MBARI, as well as smaller meetings throughout the year at offsite locations.		300
	5250	Business Meals/ Outreach/ Recognition	Business Meals/Outreach/Recognition—Lunches provided to Aquarium volunteers who achieve the 3,000-hour milestone (\$500) (in lieu of the trip on the R/V Point Lobos, volunteers will get a lunch and a tour of MBARI).		500
	5300	Supplies - Computer (Hardware)	requested for external storage. 2.5 TB (terabytes) of storage		250
	5360	Supplies - General	Benchtop environment simulator system for testing and algorithm development (DAC to hacked board)		7,000
	5360	Supplies - General	improve/refine electronics (improve or adapt to CATS)		6,200
	5360	Supplies - General	Improve/Refine Fin Clamp		6,000
	5360	Supplies - General	Improve/Refine Housing/Potting/Assembly of tag		4,000
	5360	Supplies - General	SharkCafeCam sensor calibration fixture (pressure, temperature, light)		4,000
	5500	Travel - Domestic	Travel—Transportation Reimbursement for MBARI staff involved in the WATCH program: \$500	staff	500
Total Expenses					30,750

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901200	210	ENG-Electrical Engineer	Okuda, Craig	Packard	40
	ENG-Electrical Engineer				40
	270	ENG-Electrical Tech		Packard	8
	ENG-Electrical Tech				8
	300	ENG-Mechanical Engineer	Shane, Farley	Packard	400
	ENG-Mechanical Engineer				400
	350	ENG-Software Eng - Embedded	Maughan, Thomas	Packard	480
	ENG-Software Eng - Embedded				480



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours	
901200	450	ITD-Admin Support	Connor, Judith	Packard	8	
		ITD-Admin Support	Matsumoto, George	Packard	300	
	ITD-Admin Support				308	
	470	ITD-Video Support		Packard	80	
		ITD-Video Support				80
		Total Labor Hours				1,316

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901200	MBARI	25	Rachel Carson (10 hour day)	6.0	0.0
	MBARI	29	Paragon	2.0	
	MBARI	30	Wave Glider	2.0	
Total Ship Days				10	0



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Project: **901201**

Title: **EARTH**

Project Manager: **Matsumoto, George**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901201	5020	Books / Subscriptions	for evaluation. primarily for annual subscription to Survey Monkey. Also use this tool for the intern program evaluations. This tool can be made available to any other staff member who wants to use it to create a survey.		250
	5030	Conference Fees / Registration	registration for ASLO	George Matsumoto	565
	5130	Outside Srvc - General	\$10 K for Jenn Magnusson (independent contractor) to work on the EARTH website. Jennifer will shift the EARTH website to WordPress, assist in the workshop and in the pre and post workshop development of activities and lesson plans.		10,000
	5130	Outside Srvc - General	support up to four 1-day EARTH-dissemination workshops. \$3000 for supplies, facilities, and refreshments.		3,000
	5130	Outside Srvc - General	support up to four 1-day EARTH-dissemination workshops. Stipends (\$50/teacher/15 teachers/workshop = \$3000 for four workshops) would be used to support participating educators not the facilitators.		3,000
	5250	Business Meals/ Outreach/ Recognition	Food – all meals will be covered for the five days of the workshop; one drink will be covered for one meal during the workshop (with CFO approval); \$8000		8,000
	5500	Travel - Domestic	\$3 K to support travel of MBARI researchers (if needed) to the 1-day workshops. Thus far (three years of satellite workshops, the educator has used a local researcher and not a MBARI staff person).	scientist	3,000
	5500	Travel - Domestic	attend either the ASLO Ocean Sciences meeting or the National Marine Educators association meeting: Ocean Sciences, New Orleans, LA (5 nights x \$240=\$1200 lodging)+(\$800 transportation)+(6 days x \$71=\$426 meals & Incid.) - ~\$2500	George Matsumoto	2,500
	5500	Travel - Domestic	Lodging (\$125/person/day/20 people/5 days) \$12,500 - reduced to 5000 due to 8000 coming from Rutgers for workshop. They budgeted \$100/person; I think it will be a little higher so I am leaving this line item just to make sure.	lodging	5,000
	5500	Travel - Domestic	Main Workshop Travel support for teachers (10 non-local teachers; 10 will be from the area), MBARI staff to workshop, and Jennifer - reduced to 9000 due to 6000 from Rutgers	participants	9,000
Total Expenses					44,315

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901201	450	ITD-Admin Support		Packard	100
		ITD-Admin Support			100
	470	ITD-Video Support		Packard	10
		ITD-Video Support			10



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
Total Labor Hours					110

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901201					
Total Ship Days					



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Project: **901204** Title: **Enhancing Detection Chemistries**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901204	5030	Conference Fees / Registration	ASLO General Meeting New Orleans LA	Marin	390
	5030	Conference Fees / Registration	Chris P. ASM conference Registration	Preston	675
	5030	Conference Fees / Registration	HAB meeting in Brazil	Ussler	300
	5060	Dues / Membership / Licenses	Dues for ASM, ISME, ASLO		300
	5090	Maintenance and Repair	Nanodrop and pipetter calibration		2,300
	5090	Maintenance and Repair	Service Contract for Piezo printer		9,000
	5090	Maintenance and Repair	Step One Plus Maintenance/Calibration		1,300
	5310	Supplies - Computer (Software)	Genius Software updates		1,185
	5310	Supplies - Computer (Software)	MatLab Maintenance		775
	5380	Supplies - Science Lab	Culturing phytoplankton and bacteria; media, and prep., etc		5,000
	5380	Supplies - Science Lab	DNA and RNA extraction kits, Zygem enzyme		9,500
	5380	Supplies - Science Lab	Enzymes for PCR, qPCR, and RT-qPCR		10,000
	5380	Supplies - Science Lab	expedible plastics (filters, tips, pipettes, etc)		9,500
	5380	Supplies - Science Lab	general use reagents		2,100
	5380	Supplies - Science Lab	Later flow array cartridges (mBIO)		4,200
	5380	Supplies - Science Lab	Millipore Water System consumables		5,700
	5380	Supplies - Science Lab	monoclonal antibody for SPR		3,200
	5380	Supplies - Science Lab	Piezo tips, membrane, HEPA filters and misc. supplies for array printer		7,500
	5380	Supplies - Science Lab	Primers and probes for existing assays and assay development (Whole cell, fluorescent; sandwich hybridization; PCR, sequencing)		14,000



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901204	5380	Supplies - Science Lab	Sequencing reagents (NGS & Sanger) includes sequencing prep.		8,000
	5380	Supplies - Science Lab	SHA supplies and reagents		12,000
	5380	Supplies - Science Lab	SPR and ddPCR reagent support for 3G instrument development		11,000
	5380	Supplies - Science Lab	SPR chips		3,800
	5500	Travel - Domestic	Airfare, per diem and Hotel room for ASM meeting, Boston MA	Preston	2,250
	5530	Travel - Foreign	ASLO meeting, New Orleans, LA Airfare, per diem and hotel	Marin	1,500
	5530	Travel - Foreign	International airfare, per diem and hotel to HAB meeting in Brazil	Ussler	2,900
Total Expenses					128,375

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901204	160	SCI-Research Specialist	Ussler III, William	Packard	1,840
	SCI-Research Specialist				1,840
	170	SCI-Research Tech	Marin III, Roman	Packard	1,156
		SCI-Research Tech	Preston, Christina	Packard	1,600
	SCI-Research Tech				2,756
	295	ENG-Mechanical Eng-Division	Birch, James	Packard	680
	ENG-Mechanical Eng-Division				680
Total Labor Hours					5,276

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901204					
Total Ship Days					



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Project: **901205**

Title: **ESP Surf Center**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901205	5090	Maintenance and Repair	Calibration of CTD's		6,000
	5530	Travel - Foreign	CSIRO (Hobart, Tasmania)--Autonomous Diagnostics for Microbial Oceanography	Birch	3,000
Total Expenses					9,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901205	160	SCI-Research Specialist	Ryan, John	Packard	764
	SCI-Research Specialist				764
	210	ENG-Electrical Engineer	Jensen, Scott	Packard	1,048
	ENG-Electrical Engineer				1,048
	295	ENG-Mechanical Eng-Division	Birch, James	Packard	700
	ENG-Mechanical Eng-Division				700
	300	ENG-Mechanical Engineer	Pargett, Douglas	Packard	1,040
	ENG-Mechanical Engineer				1,040
	350	ENG-Software Eng - Embedded	Roman, Brent	Packard	1,060
	ENG-Software Eng - Embedded				1,060
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	160
		ENG-Software Eng - Info Eng	Schlining, Brian	Packard	40
	ENG-Software Eng - Info Eng				200
Total Labor Hours					4,812

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901205	MBARI	29	Paragon	20.0	
Total Ship Days				20	



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Project: **901206**

Title: **Coastal Profiling Float**

Project Manager: **Massion, Gene**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901206	1500	Capital Item > \$5,000 Unit Cost	Coastal Profiling Float with CTD		24,000
	1500	Capital Item > \$5,000 Unit Cost	FL/BB Instrument for CPF		8,500
	1500	Capital Item > \$5,000 Unit Cost	ISUS and pH Instrufment for CPF		10,500
	1500	Capital Item > \$5,000 Unit Cost	O2 Instrument for CPF		6,000
	1500	Capital Item > \$5,000 Unit Cost	PAR Instrument for CPF		7,500
	5130	Outside Srvc - General	Iridium air time		1,500
	5310	Supplies - Computer (Software)	Labview, Solidworks, Matlab software maintenance and support		8,500
	5320	Supplies - Engineering Lab	Misc supplies, hydraulic fittings, connectors, electronics, small spares, plastic and metal material		5,000
	5500	Travel - Domestic	Present CPF results at Ocean Sciences 2016	Gene Massion	2,600
Total Expenses					74,100

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901206	135	SCI-Mechanical Engineer	Massion, Eugene	Packard	1,640
	SCI-Mechanical Engineer				1,640
	210	ENG-Electrical Engineer	Martin, Eric	Packard	480
		ENG-Electrical Engineer	Mellinger, Edward	Packard	200
	ENG-Electrical Engineer				680
	270	ENG-Electrical Tech	Coenen, Paul	Packard	200
		ENG-Electrical Tech	Rosal, Jose	Packard	160
	ENG-Electrical Tech				360
	280	ENG-Mechanical Tech	Parker, Michael	Packard	160
	ENG-Mechanical Tech				160
	290	ENG-Machinist		Packard	160
	ENG-Machinist				160
	300	ENG-Mechanical Engineer	Shane, Farley	Packard	400
	ENG-Mechanical Engineer				400
	Total Labor Hours				3,400



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Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901206	MBARI	25	Rachel Carson (10 hour day)	1.0	0.0
	MBARI	29	Paragon	20.0	
Total Ship Days				21	0



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Project: **901208**

Title: **Testing Marine Systems**

Project Manager: **Kirkwood, Bill**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901208					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901208	295	ENG-Mechanical Eng-Division	Kirkwood, William	Packard	50
		ENG-Mechanical Eng-Division			50
Total Labor Hours					50

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901208					
Total Ship Days					



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Project:
901209

Title: **Midwater Autonomous Platform
(I2MAP)**

Project Manager: **Reisenbichler,
Kim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901209	1500	Capital Item > \$5,000 Unit Cost	SBE 43 Dissolved O2 sensor (2nd sensor)		5,362
	5115	Outside Srvc - Design Fees	Optical Engineer - Plan B		1,500
	5130	Outside Srvc - General	Pressure testing - Milestone 1		3,000
	5130	Outside Srvc - General	Pressure Testing - Plan B		2,000
	5200	Postage / Shipping	Domestic shipping - Milestone 1		200
	5200	Postage / Shipping	Foreign Freight Charges - Milestone 1		300
	5330	Supplies - Non-Capitalized Equipment	Modified domes (2 ea.) - Milestone 1		3,000
	5330	Supplies - Non-Capitalized Equipment	New domes (3 ea.) - Plan B		6,000
	5330	Supplies - Non-Capitalized Equipment	SeaLite Sphere LED light (spare)		2,300
	5330	Supplies - Non-Capitalized Equipment	Sensors for dome testing - Milestone 1		1,050
	5360	Supplies - General	Materials for dummy cap and sensor mount - Milestone 1		500
	5360	Supplies - General	Materials for fabrication of new titanium dome fixture - Plan B		2,500
	5360	Supplies - General	Shore power/test cable		800
	5360	Supplies - General	Spare cables and connectors		1,000
	5360	Supplies - General	Waterproof connectors and cable - Milestone 1		200
	5500	Travel - Domestic	Travel to pressure test facility - Milestone 1	Cazenave	750
	5500	Travel - Domestic	Travel to pressure test facility - Plan B	Cazenave	750
Total Expenses					31,212

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901209	160	SCI-Research Specialist	Reisenbichler, Kim	Packard	240
	SCI-Research Specialist				240
	170	SCI-Research Tech	Sherlock, Rob	Packard	160
	SCI-Research Tech				160
	180	SCI-Scientist	Robison, Bruce	Packard	80
	SCI-Scientist				80
	210	ENG-Electrical Engineer	Chaffey, Mark	Packard	285
	ENG-Electrical Engineer				285



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901209	290	ENG-Machinist		Packard	116
	ENG-Machinist				116
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	260
	ENG-Mechanical Engineer				260
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	200
		ENG-Software Eng - Embedded	McEwen, Robert	Packard	120
	ENG-Software Eng - Embedded				320
	355	ENG-Software Eng - Info Eng	Schlining, Brian	Packard	80
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	80
	ENG-Software Eng - Info Eng				160
	390	DMO-AUV Support		Packard	40
	DMO-AUV Support				40
	470	ITD-Video Support		Packard	121
	ITD-Video Support				121
Total Labor Hours					1,782

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901209	MBARI	25	Rachel Carson (10 hour day)	5.0	0.0
Total Ship Days				5	0



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Project: **901216** Title: **Ocean Chemistry Greenhouse Gases**

Project Manager: **Peltzer, Ed**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901216	1500	Capital Item > \$5,000 Unit Cost	Ti End-Bell for DORISS3		25,000
	1500	Capital Item > \$5,000 Unit Cost	Ti Extension for DORISS3		18,000
	5030	Conference Fees / Registration	Membership fees and dues (3@ \$250/person)	PGB, ETP, & PMW	750
	5030	Conference Fees / Registration	TOS Meeting (Feb 21-26) - 3 @ \$450/person	PGB, ETP, & PMW	1,350
	5130	Outside Svc - General	Cal & Service Digital pH sensors (4@\$600 ea.)		2,400
	5200	Postage / Shipping	Miscellaneous postage		200
	5250	Business Meals/Outreach/Recognition	Mtgs w/visiting scientists & tech reps (3@\$100 ea.)		300
	5300	Supplies - Computer (Hardware)	DORISS-3 Internal PC Build: PC stack (2@\$3200 ea.)		6,400
	5300	Supplies - Computer (Hardware)	DORISS-3 Internal PC Build: Environmental sensors		200
	5300	Supplies - Computer (Hardware)	DORISS-3 Internal PC Build: Gig-E comms board		500
	5300	Supplies - Computer (Hardware)	DORISS-3 Internal PC Build: USB interface to camera		500
	5300	Supplies - Computer (Hardware)	DORISS-3 Internal PC Build: Win 7/8 Laptop for DORISS-3		2,000
	5310	Supplies - Computer (Software)	Matlab (3@\$500 ea.)		1,500
	5310	Supplies - Computer (Software)	Infochem		2,500
	5310	Supplies - Computer (Software)	Various program upgrades (4@\$500 ea.)		2,000
	5320	Supplies - Engineering Lab	316 tubing - 2 pieces 24" (2@\$50 ea.)		100
	5320	Supplies - Engineering Lab	5 meters of wire braided teflon inner core hose		500
	5320	Supplies - Engineering Lab	8 meter fiber optic cables - Kaiser (2@\$1500 ea.)		3,000
	5320	Supplies - Engineering Lab	Cable Insulating Resin potting (6@\$35 ea.)		210
	5320	Supplies - Engineering Lab	Compensation hose		250
	5320	Supplies - Engineering Lab	Fiber termination (8@\$100 ea.)		800
	5320	Supplies - Engineering Lab	Hose fittings (8@\$75 ea.)		600
	5320	Supplies - Engineering Lab	Hose union (4@\$100 ea.)		400
	5320	Supplies - Engineering Lab	Internal connectors - assorted		750



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901216	5320	Supplies - Engineering Lab	Internal fans (5@\$25 ea.)		125
	5320	Supplies - Engineering Lab	Internal wire - misc		200
	5320	Supplies - Engineering Lab	Machined penetrator insert - Ti (2@\$400 ea.)		800
	5320	Supplies - Engineering Lab	MIN-K-10-L Insert		450
	5320	Supplies - Engineering Lab	MIN-K-10L-CCP Two ended cable (GigE) (2@\$1600 ea.)		3,200
	5320	Supplies - Engineering Lab	Misc Hardware - Ti		1,000
	5320	Supplies - Engineering Lab	O-rings w/ spares assorted sizes (5@ \$30 ea.)		150
	5320	Supplies - Engineering Lab	PCB Fabrication		1,000
	5320	Supplies - Engineering Lab	Power board/Bench racks - Al (2@\$450)		900
	5320	Supplies - Engineering Lab	Power Conversion Hardware Components		500
	5320	Supplies - Engineering Lab	QD pressure fitting - 316 cres		250
	5320	Supplies - Engineering Lab	Rack End Plate adapter		150
	5320	Supplies - Engineering Lab	RTV		10
	5320	Supplies - Engineering Lab	Seacon Caps - Ti (2@\$250)		500
	5320	Supplies - Engineering Lab	Seacon Penetrators - Ti (2@\$500 ea.)		1,000
	5320	Supplies - Engineering Lab	Slide rails - UHMW (2@\$30 ea.)		60
	5320	Supplies - Engineering Lab	T fitting - 316 cres		75
	5320	Supplies - Engineering Lab	Vibration isolators (8@\$20 ea.)		160
	5330	Supplies - Non-Capitalized Equipment	IQ pH sensors (2@ \$350 ea.)		700
	5330	Supplies - Non-Capitalized Equipment	Replacement electrodes (4@\$250 ea.)		1,000
	5360	Supplies - General	Cable potting compound		250
	5360	Supplies - General	Materials & fasteners		1,000
	5360	Supplies - General	Misc hardware and Upchurch fittings		400
	5360	Supplies - General	SPAN gauges (4@\$75 ea.)		300
	5360	Supplies - General	Swagelok supplies		3,000
	5380	Supplies - Science Lab	Buffers and lab chemicals		600
	5380	Supplies - Science Lab	Cubitainers, fittings, syringes, tubing		500
	5380	Supplies - Science Lab	Gases for ROV exps (4@\$500 ea.)		2,000
	5390	Supplies - Tools	Lab tools		500
	5500	Travel - Domestic	TOS Meeting (Feb 21-26): Ground transport to/from airport (3 people)	PGB, ETP & PMW	600
	5500	Travel - Domestic	TOS Meeting: Airfare (SJC to MSY) (3@\$650 ea.)	PGB, ETP & PMW	1,950
	5500	Travel - Domestic	TOS Meeting: Lodging for 6 nights (\$225/night) (3@\$1350 ea.)	PGB, ETP, & PMW	4,050
	5500	Travel - Domestic	TOS Meeting: Meals for 7 days (\$65/day) (3@\$455 ea.)	PGB, ETP, & PMW	1,365
Total Expenses					98,955



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901216	160	SCI-Research Specialist	Peltzer, Edward	Packard	1,840
		SCI-Research Specialist	Ryan, John	Packard	360
	SCI-Research Specialist				2,200
	170	SCI-Research Tech	Walz, Peter	Packard	1,840
	SCI-Research Tech				1,840
	180	SCI-Scientist	Brewer, Peter	Packard	920
	SCI-Scientist				920
	210	ENG-Electrical Engineer	Martin, Eric	Packard	160
		ENG-Electrical Engineer	McGill, Paul	Packard	200
	ENG-Electrical Engineer				360
	270	ENG-Electrical Tech		Packard	95
	ENG-Electrical Tech				95
	280	ENG-Mechanical Tech		Packard	40
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	272
	ENG-Machinist				272
	295	ENG-Mechanical Eng-Division	Kirkwood, William	Packard	600
	ENG-Mechanical Eng-Division				600
	300	ENG-Mechanical Engineer	Shane, Farley	Packard	350
	ENG-Mechanical Engineer				350
Total Labor Hours					6,677

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901216	MBARI	24	Western Flyer	3.0	1.0
	MBARI	25	Rachel Carson (10 hour day)	2.0	0.0
Total Ship Days				5	1



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Project: **901217** Title: **Chemical Sensor Program**

Project Manager: **Johnson, Ken**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901217	5030	Conference Fees / Registration	National Meeting	Carole Sakamoto	400
	5030	Conference Fees / Registration	National Meeting	Ginger Elrod	400
	5030	Conference Fees / Registration	National Meeting	Hans Jannasch	400
	5030	Conference Fees / Registration	National Meeting	Josh Plant	400
	5030	Conference Fees / Registration	National Meeting	Ken Johnson	400
	5030	Conference Fees / Registration	National Meeting	Luke Coletti	400
	5060	Dues / Membership / Licenses	AAAS, ACS, AGU...		1,000
	5090	Maintenance and Repair	Lab instruments		7,000
	5120	Outside Srvc - External Ship Time	MLML Whaler and Sheila B time to service LOBO moorings		3,400
	5130	Outside Srvc - General	3D printing		2,500
	5130	Outside Srvc - General	Ceramic mounting and wire bonding subcontract Aborn		12,000
	5130	Outside Srvc - General	Prunella Machine Shop		5,000
	5310	Supplies - Computer (Software)	Matlab, Solidworks, and general lab software upgrades		8,000
	5380	Supplies - Science Lab	Components to construct alkalinity titrator		6,000
	5380	Supplies - Science Lab	Hereaus fiber light replacements for existing ISUS systems		4,000
	5380	Supplies - Science Lab	Lithium batteries for LOBO		4,000
	5380	Supplies - Science Lab	Lithium batteries for sensor operation/testing		4,000
	5380	Supplies - Science Lab	LOBO data telemetry		2,500
	5380	Supplies - Science Lab	Optical components		8,000
	5380	Supplies - Science Lab	Reagents, gases, gloves, etc.		16,500
	5380	Supplies - Science Lab	Sensor construction		15,000
	5500	Travel - Domestic	One national meeting, airfare, lodging, per diem, miscellaneous	Carole Sakamoto	2,600
	5500	Travel - Domestic	One national meeting, airfare, lodging, per diem, miscellaneous	Hans Jannasch	2,600
	5500	Travel - Domestic	One national meeting, airfare, lodging, per diem, miscellaneous	Josh Plant	2,600
	5500	Travel - Domestic	One national meeting, airfare, lodging, per diem, miscellaneous	Ken Johnson	2,600



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901217			miscellaneous		
	5500	Travel - Domestic	One national meeting, airfare, lodging, per diem, miscellaneous	Luke Coletti	2,600
Total Expenses					114,300

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901217	135	SCI-Mechanical Engineer	Massion, Eugene	Packard	200
		SCI-Mechanical Engineer			200
	160	SCI-Research Specialist	Jannasch, Hans	Packard	1,540
		SCI-Research Specialist	Sakamoto, Carole	Packard	1,540
		SCI-Research Specialist			3,080
	170	SCI-Research Tech	Coletti, Luke	Packard	1,440
		SCI-Research Tech	Elrod, Virginia	Packard	1,690
		SCI-Research Tech	Plant, Joshua	Packard	1,690
		SCI-Research Tech			4,820
	180	SCI-Scientist	Johnson, Kenneth	Packard	1,690
		SCI-Scientist			1,690
	270	ENG-Electrical Tech		Packard	400
		ENG-Electrical Tech			400
	280	ENG-Mechanical Tech		Packard	300
		ENG-Mechanical Tech			300
	290	ENG-Machinist		Packard	300
		ENG-Machinist			300
	300	ENG-Mechanical Engineer	Erickson, Jon	Packard	40
		ENG-Mechanical Engineer			40
Total Labor Hours					10,830

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901217	MBARI	27	Rachel Carson (24 hour day)	3.0	0.0
	MBARI	29	Paragon	2.0	
Total Ship Days				5	0



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Project: **901220**

Title: **Midwater Ecology**

Project Manager: **Reisenbichler, Kim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901220	5020	Books / Subscriptions	General Lab		350
	5020	Books / Subscriptions	Programming & Statistics books - Choy		500
	5030	Conference Fees / Registration	International Conference Registration, to be determined (Choy)	Choy	800
	5030	Conference Fees / Registration	Ocean Sciences Meeting, New Orleans, LA (\$565 x 4 ea., Robison, Reisenbichler, & Sherlock)	Robison, Reisenbichler, & Sherlock	1,664
	5060	Dues / Membership / Licenses	American Fisheries Society Membership Dues - Choy		80
	5060	Dues / Membership / Licenses	ASLO Membership Dues - Matsumoto		75
	5060	Dues / Membership / Licenses	ASLO Membership Dues - Robison, Reisenbichler and Sherlock		225
	5090	Maintenance and Repair	Lab & Sea-going Equipment Maint. & Repair		1,500
	5130	Outside Svc - General	C & N Amino Acid specific Isotope Analysis at U. Hawaii (estimated cost of \$350 per sample) - Choy		10,150
	5130	Outside Svc - General	CHN sample analysis (100 animals) - reki		6,811
	5130	Outside Svc - General	CHN sample preparation (100 animals) - reki & Isotope sample prep - Choy		9,000
	5130	Outside Svc - General	Histology - Core		500
	5130	Outside Svc - General	Stable C & N Isotope Analyses at U. Hawaii (\$15.00 per sample, internal rate) - Choy		2,505
	5130	Outside Svc - General	Toxin Analysis of Plastic-related chemicals (PCBs, PBDEs, organochlorides, etc.) at Moss Landing Marine Laboratories (\$1800 per sample) - Choy		18,000
	5130	Outside Svc - General	Trace Metal (Hg) Analysis at Moss Landing Marine Laboratories (\$75-150 per sample) - Choy		4,500
	5200	Postage / Shipping	Sample postage/shipping		1,000
	5200	Postage / Shipping	Samples to analytical labs - Choy		500
	5200	Postage / Shipping	Samples to/from colleagues - Choy		500



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901220	5300	Supplies - Computer (Hardware)	Replacement hardware for non-IS supported lab computers, memory cards and external HDs		750
	5310	Supplies - Computer (Software)	Misc. MAC software purchases (graphics, statistics, references, programming, etc.) - Choy		750
	5310	Supplies - Computer (Software)	Misc. software upgrades (MAC)		600
	5310	Supplies - Computer (Software)	Misc. software upgrades (PC)		800
	5310	Supplies - Computer (Software)	Primer 7 upgrade		375
	5330	Supplies - Non-Capitalized Equipment	Micro-stirrer assembly for lab respirometers		1,000
	5360	Supplies - General	Commercial pelagic species - tissue and whole body, from fishermen and/or Phil's - Choy		550
	5360	Supplies - General	Field and lab tools		700
	5360	Supplies - General	General Materials and Supplies for fabrication and/or modification of aquaria, respirometer chambers and seawater lab		4,000
	5360	Supplies - General	Modification/adaptation of sampling equipment		2,000
	5360	Supplies - General	MRS Replacements, upgrades and supplies		5,000
	5360	Supplies - General	Office Supplies - printer cartridges (lab and office inkjet printers)		800
	5380	Supplies - Science Lab	Consumable sequencing materials (extraction through sequencing)		4,000
	5380	Supplies - Science Lab	Lab supplies		3,500
	5380	Supplies - Science Lab	Lab supplies (cryovials, dram vials, sample jars, clean dissection tools, foil, sampling kits, labels, etc.) - Choy		2,500
	5500	Travel - Domestic	Ocean Sciences Meeting, New Orleans, LA (5 nights x \$240=\$1200 lodging)+(\$800 transportation)+(6 days x \$71=\$426 meals & Incid.) - Robison, Reisenbichler, & Sherlock	Robison, Reisenbichler, & Sherlock	7,278
	5500	Travel - Domestic	Two trips to Univ. HI. for lab work (lodge w/ colleagues = \$0 lodging)+(\$950 transportation)+(10 days x \$60=\$600 meals & Incid.) - Choy	Choy	3,100
	5530	Travel - Foreign	Collaboration Visit, Kiel, DE (5 days x (\$225 lodging+\$121 meals & Incid.))+\$1726 transportation)	Robison	3,456
	5530	Travel - Foreign	International Conference, Y TBD (6 nights x \$150= \$900 lodging)+(\$2400 transportation)+(7 days x \$100=\$700 meals & Incid.) - Choy	Choy	4,000
Total Expenses					103,819



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901220	130	SCI-Post Doc/RA	Choy, Carolyn Anela	Packard	1,840
	SCI-Post Doc/RA				1,840
	160	SCI-Research Specialist	Reisenbichler, Kim	Packard	1,080
	SCI-Research Specialist				1,080
	170	SCI-Research Tech	Sherlock, Rob	Packard	1,440
	SCI-Research Tech				1,440
	180	SCI-Scientist	Robison, Bruce	Packard	1,680
	SCI-Scientist				1,680
	210	ENG-Electrical Engineer	Okuda, Craig	Packard	80
	ENG-Electrical Engineer				80
	270	ENG-Electrical Tech		Packard	16
	ENG-Electrical Tech				16
	280	ENG-Mechanical Tech	Ferreira, John	Packard	40
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	40
	ENG-Machinist				40
	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	96
	ENG-Mechanical Eng-Mfg				96
	350	ENG-Software Eng - Embedded	Herlien, Robert	Packard	32
	ENG-Software Eng - Embedded				32
	470	ITD-Video Support		Packard	437
	ITD-Video Support				437
Total Labor Hours					6,781

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901220	MBARI	24	Western Flyer	21.0	0.0
	MBARI	25	Rachel Carson (10 hour day)	9.0	0.0
Total Ship Days				30	0



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Project: **901221** Title: **Midwater Time Series** Project Manager: **Sherlock, Rob**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901221	5090	Maintenance and Repair	annual calibration and maintenance of our Falmouth Acoustic Flow meter (ACM).		1,650
Total Expenses					1,650

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901221	160	SCI-Research Specialist	Reisenbichler, Kim	Packard	62
	SCI-Research Specialist				62
	170	SCI-Research Tech	Sherlock, Rob	Packard	240
	SCI-Research Tech				240
	180	SCI-Scientist	Robison, Bruce	Packard	80
	SCI-Scientist				80
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	32
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	40
		ENG-Software Eng - Info Eng	Schlining, Brian	Packard	70
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	40
	ENG-Software Eng - Info Eng				182
	470	ITD-Video Support		Packard	123
	ITD-Video Support				123
	Total Labor Hours				687

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901221	MBARI	25	Rachel Carson (10 hour day)	9.0	0.0
Total Ship Days				9	0



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Project: **901228** Title: **ESP LRAUV Cost Share - CIP**

Project Manager: **Birch, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901228					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901228	210	ENG-Electrical Engineer	Klimov, Denis	Packard	15
		ENG-Electrical Engineer	Mellinger, Edward	Packard	15
	ENG-Electrical Engineer				30
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	15
		ENG-Mechanical Engineer			
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	45
		ENG-Software Eng - Embedded	Stanway, Michael	Packard	45
		ENG-Software Eng - Embedded			
	Total Labor Hours				

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901228					
Total Ship Days					



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Project:
901303

Title: **Feasibility Study: Cytometer technology for autonomous platforms**

Project Manager: **O Reilly, Tom**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901303	5130	Outside Srvc - General	Pacific Forum Setup/breakdown fee (3 days)		150
	5200	Postage / Shipping	Instrument shipping cost		600
	5250	Business Meals/Outreach/Recognition	Workshop breakfast (local pick up - 3 days); lunch (local pick up - 2 days); outside lunch (1 day)		650
	5360	Supplies - General	Miscellaneous supplies for instrument testing		400
	5500	Travel - Domestic	Workshop 8 domestic and 1 international visitors - see itemized budget justification in a proposal text	workshop	10,110
	5530	Travel - Foreign	Workshop 8 domestic and 1 international visitors - see itemized budget justification in a proposal text	workshop	1,760
Total Expenses					13,670

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901303	210	ENG-Electrical Engineer	Klimov, Denis	Packard	240
	ENG-Electrical Engineer				240
	350	ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	260
	ENG-Software Eng - Embedded				260
Total Labor Hours					500

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901303					
Total Ship Days					



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Project: **901314**

Title: **Cost-share MiVegas**

Project Manager: **Scholin, Chris**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901314					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901314	181	SCI-Scientist (budget)	Scholin, Christopher	Packard	250
	SCI-Scientist (budget)				250
	295	ENG-Mechanical Eng-Division	Birch, James	Packard	320
	ENG-Mechanical Eng-Division				320
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	160
	ENG-Mechanical Engineer				160
Total Labor Hours					730

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901314					
Total Ship Days					



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Project: **901400**

Title: **LRAUV:Science**

Project Manager: **Hobson, Brett**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901400	1500	Capital Item > \$5,000 Unit Cost	(2) Rowe ADCP		32,000
	1500	Capital Item > \$5,000 Unit Cost	(2) Seabird GPCTDs for Tethys and Daphne		22,000
	5090	Maintenance and Repair	Instrument calibration		5,300
	5130	Outside Svc - General	Mike Godin		7,500
	5130	Outside Svc - General	Toby Schneider		10,000
	5360	Supplies - General	(3) AHRS compasses		3,000
	5360	Supplies - General	Misc. spare parts and lab supplies for (3) LRAUVs		12,000
	5360	Supplies - General	Thruster amplifier parts		5,000
	5420	Telephone / Data Comm	Iridium satellite comms, cellular comms and Argos tracking services for (3) vehicles		15,000
Total Expenses					111,800

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901400	210	ENG-Electrical Engineer	Klimov, Denis	Packard	305
		ENG-Electrical Engineer	Mellinger, Edward	Packard	795
		ENG-Electrical Engineer	Okuda, Craig	Packard	160
	ENG-Electrical Engineer				1,260
	270	ENG-Electrical Tech	Coenen, Paul	Packard	375
		ENG-Electrical Tech		Packard	131
	ENG-Electrical Tech				506
	280	ENG-Mechanical Tech	Scholfield, James	Packard	190
	ENG-Mechanical Tech				190
	290	ENG-Machinist		Packard	470
	ENG-Machinist				470
	300	ENG-Mechanical Engineer	Erickson, Jon	Packard	620
		ENG-Mechanical Engineer	Hobson, Brett	Packard	460
	ENG-Mechanical Engineer				1,080
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	655
		ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	150
		ENG-Software Eng - Embedded	Stanway, Michael	Packard	755
	ENG-Software Eng - Embedded				1,560



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901400	355	ENG-Software Eng - Info Eng	Rueda-Velasquez, Carlos	Packard	620
	ENG-Software Eng - Info Eng				620
	390	DMO-AUV Support	Thompson, Duane	Packard	320
	DMO-AUV Support				320
	395	DMO- Marine Ops Tech	French, David	Packard	96
		DMO- Marine Ops Tech	Heller, Kenneth	Packard	96
	DMO- Marine Ops Tech				192
	Total Labor Hours				6,198

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901400	MBARI	29	Paragon	40.0	
Total Ship Days				40	



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Project: **901405** Title: **Continuation of PowerBuoy Development** Project Manager: **Hamilton, Andy**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901405	1500	Capital Item > \$5,000 Unit Cost	Li-Ion battery Modules and Controller		6,000
	1500	Capital Item > \$5,000 Unit Cost	Re-make Ti springs in compliant plate		8,000
	1500	Capital Item > \$5,000 Unit Cost	Thrusters		8,000
	5120	Outside Srvc - External Ship Time	4 days of Shana Rae		8,000
	5130	Outside Srvc - General	Expenses include refurbishing hydraulics, galvanizing, and post-deployment strength testing.		7,400
	5330	Supplies - Non-Capitalized Equipment	Electronics for DSL comms, buoy electronics, and cabling and connectors		3,000
	5360	Supplies - General	Material for fabricated housings and parts		20,000
Total Expenses					60,400

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901405	210	ENG-Electrical Engineer	Jensen, Scott	Packard	244
		ENG-Electrical Engineer	Klimov, Denis	Packard	236
		ENG-Electrical Engineer	Martin, Eric	Packard	0
	ENG-Electrical Engineer				480
	270	ENG-Electrical Tech		Packard	178
	ENG-Electrical Tech				178
	280	ENG-Mechanical Tech	Ferreira, John	Packard	340
	ENG-Mechanical Tech				340
	290	ENG-Machinist		Packard	136
	ENG-Machinist				136
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	388
		ENG-Mechanical Engineer	Erickson, Jon	Packard	276
		ENG-Mechanical Engineer	Hamilton, John	Packard	384
		ENG-Mechanical Engineer	Hobson, Brett	Packard	0
	ENG-Mechanical Engineer				1,048
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	300
		ENG-Software Eng - Embedded	Kieft, Brian	Packard	0
		ENG-Software Eng - Embedded	Stanway, Michael	Packard	0



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901405		ENG-Software Eng - Embedded			300
Total Labor Hours					2,482

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901405	MBARI	29	Paragon	3.0	
Total Ship Days				3	



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Project: **901411**

Title: **Wave Glider Hotspot**

Project Manager: **Kieft, Brain**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901411	1500	Capital Item > \$5,000 Unit Cost	Benthos LF modem		7,000
	1500	Capital Item > \$5,000 Unit Cost	Benthos MF DAT		26,000
	5130	Outside Svc - General	Airtime fees - cellular		500
	5130	Outside Svc - General	Airtime fees - Sattelite		6,200
	5320	Supplies - Engineering Lab	Supplies		4,000
	5530	Travel - Foreign	Collaborator meeting	Tom O'Reilly or Brian Kieft	4,500
Total Expenses					48,200

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901411	270	ENG-Electrical Tech	Coenen, Paul	Packard	52
	ENG-Electrical Tech				52
	290	ENG-Machinist		Packard	8
	ENG-Machinist				8
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	154
		ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	238
	ENG-Software Eng - Embedded				392
	395	DMO- Marine Ops Tech	Wahl, Christopher	Packard	142
	DMO- Marine Ops Tech				142
	Total Labor Hours				594

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901411	MBARI	29	Paragon	18.0	
	MBARI	30	Wave Glider	133.0	
Total Ship Days				151	



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Project: **901412** Title: **Shallow Water FOCE Science**

Project Manager: **Barry, Jim**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901412					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901412	210	ENG-Electrical Engineer	Kecy, Chad	Packard	80
	ENG-Electrical Engineer				80
	280	ENG-Mechanical Tech	Scholfield, James	Packard	80
	ENG-Mechanical Tech				80
	295	ENG-Mechanical Eng-Division	Kirkwood, William	Packard	80
	ENG-Mechanical Eng-Division				80
	300	ENG-Mechanical Engineer	Shane, Farley	Packard	80
	ENG-Mechanical Engineer				80
	350	ENG-Software Eng - Embedded	Headley, Kent	Packard	80
		ENG-Software Eng - Embedded	Herlien, Robert	Packard	80
ENG-Software Eng - Embedded					160
Total Labor Hours					480

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901412					
Total Ship Days					



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Project: **901500** Title: **AUV Science Operations Terrain Relative Nav** Project Manager: **Hobson, Brett**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901500					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901500	210	ENG-Electrical Engineer	Sherman, Alana	Packard	40
	ENG-Electrical Engineer				40
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	275
	ENG-Mechanical Engineer				275
	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	45
	ENG-Mechanical Eng-Mfg				45
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	200
		ENG-Software Eng - Embedded	McEwen, Robert	Packard	500
		ENG-Software Eng - Embedded	Risi, Michael	Packard	10
	ENG-Software Eng - Embedded				710
	355	ENG-Software Eng - Info Eng	Caress, David	Packard	100
	ENG-Software Eng - Info Eng				100
	390	DMO-AUV Support	Thomas, Hans	Packard	100
	DMO-AUV Support				100
Total Labor Hours					1,270

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901500	MBARI	25	Rachel Carson (10 hour day)	5.0	0.0
Total Ship Days				5	0



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Project:
901502

Title: **Passive Acoustic Sensing in Foraging Ecology Research**

Project Manager: **Ryan, John**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901502	9770	MARS Port Fees	port fees		12,000
Total Expenses					12,000

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901502	160	SCI-Research Specialist	Ryan, John	Packard	200
	SCI-Research Specialist				200
	205	ENG-Research Specialist	Zhang, Yanwu	Packard	160
	ENG-Research Specialist				160
	210	ENG-Electrical Engineer	McGill, Paul	Packard	100
	ENG-Electrical Engineer				100
	355	ENG-Software Eng - Info Eng	Cline, Danelle	Packard	160
	ENG-Software Eng - Info Eng				160
	380	DMO-Shore/Admin Support	Dawe, Thomas	Packard	9
	DMO-Shore/Admin Support				9
	395	DMO- Marine Ops Tech	French, David	Packard	40
		DMO- Marine Ops Tech	Heller, Kenneth	Packard	9
	DMO- Marine Ops Tech				49
Total Labor Hours					678

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901502	MBARI	25	Rachel Carson (10 hour day)	1.0	0.0
Total Ship Days				1	0



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Project: **901504**

Title: **Full-Speed Simulator**

Project Manager: **McEwen, Rob**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901504					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901504	350	ENG-Software Eng - Embedded	Headley, Kent	Packard	200
		ENG-Software Eng - Embedded	Henthorn, Richard	Packard	240
		ENG-Software Eng - Embedded	McEwen, Robert	Packard	140
	ENG-Software Eng - Embedded				580
	390	DMO-AUV Support	Thomas, Hans	Packard	20
	DMO-AUV Support				20
	Total Labor Hours				600

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901504					
Total Ship Days					



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Project: **901506**

Title: **DeepPIV**

Project Manager: **Young, Kakani Katija**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901506	5310	Supplies - Computer (Software)	PIV analysis software		10,000
	5320	Supplies - Engineering Lab	Raid drives for data storage		2,000
	5320	Supplies - Engineering Lab	Supplies for engineer efforts		1,000
	5360	Supplies - General	Camera housing		1,000
	5360	Supplies - General	Flat port optical window		900
	5360	Supplies - General	Internal chassis		500
	5360	Supplies - General	Laser housing		1,000
	5360	Supplies - General	Materials to build extending mount for DPIV on Doc Ricketts		3,000
	5360	Supplies - General	ROV frame for DPIV		500
	5360	Supplies - General	Seacon connectors for camera housing and cables		4,000
	5360	Supplies - General	Wet cabling between camera housing,controller housing, and ROV		1,000
	5380	Supplies - Science Lab	Lab supplies for bench tests		1,000
	5500	Travel - Domestic	Travel expenses to attend the Ocean Sciences conference February 2016	Kakani Katija	2,420
Total Expenses					28,320

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901506	210	ENG-Electrical Engineer	Kecy, Chad	Packard	200
		ENG-Electrical Engineer	Klimov, Denis	Packard	60
		ENG-Electrical Engineer	Sherman, Alana	Packard	240
	ENG-Electrical Engineer				500
	270	ENG-Electrical Tech	Marion, Thomas	Packard	60
	ENG-Electrical Tech				60
	280	ENG-Mechanical Tech	Flores, Frank	Packard	40
	ENG-Mechanical Tech				40
	290	ENG-Machinist		Packard	80
	ENG-Machinist				80
	300	ENG-Mechanical Engineer	Erickson, Jon	Packard	100
	ENG-Mechanical Engineer				100
	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	280
	ENG-Mechanical Eng-Mfg				280



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Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901506	320	ENG-Post Doc	Young, Kakani Katija	Packard	1,520
	ENG-Post Doc				1,520
	350	ENG-Software Eng - Embedded	Risi, Michael	Packard	40
	ENG-Software Eng - Embedded				40
Total Labor Hours					2,620

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901506	MBARI	25	Rachel Carson (10 hour day)	4.0	0.0
Total Ship Days				4	0



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Project: **901507**

Title: **Oasis 5 Controller**

Project Manager: **Okuda, Craig**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901507	5360	Supplies - General	Lab Supplies		3,000
	5360	Supplies - General	Materials to build 20 sets of boards		5,000
	5360	Supplies - General	OS Support and tools, RealICE		2,500
	5360	Supplies - General	PCB Fab, 3 revs for 2 boards		10,000
Total Expenses					20,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901507	210	ENG-Electrical Engineer	Okuda, Craig	Packard	320
	ENG-Electrical Engineer				320
	350	ENG-Software Eng - Embedded	Headley, Kent	Packard	480
		ENG-Software Eng - Embedded	Herlien, Robert	Packard	640
		ENG-Software Eng - Embedded	Maughan, Thomas	Packard	160
	ENG-Software Eng - Embedded				1,280
	Total Labor Hours				1,600

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901507					
Total Ship Days					



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Project: **901512** Title: **Integrated MBARI Time-Series Program** Project Manager: **Messié, Monique**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901512	5310	Supplies - Computer (Software)	matlab toolbox annual support fees		188
	5530	Travel - Foreign	Domestic travel to the Ocean Sciences meeting: \$800 airfare, \$700 conference fees / AGU membership, \$600 lodging, \$400 meals. Note that part of this may be purchased in 2015 as the conference is in Feb (notably airfare and conference fees).	Monique Messié	2,500
Total Expenses					2,688

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901512	160	SCI-Research Specialist	Messie, Monique	Packard	440
		SCI-Research Specialist			440
	210	ENG-Electrical Engineer	Sherman, Alana	Packard	20
		ENG-Electrical Engineer			20
	355	ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	220
		ENG-Software Eng - Info Eng			220
Total Labor Hours					680

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901512					
Total Ship Days					



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Project: **901513** Title: **Adaptive Sampling by Autonomous Underwater Vehicles** Project Manager: **Zhang, Yanwu**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901513	5020	Books / Subscriptions	Signal processing, oceanographic science books		100
	5030	Conference Fees / Registration	Ocean Sciences'2016 Meeting registration fee.	Yanwu Zhang	500
	5060	Dues / Membership / Licenses	IEEE membership fee and journal subscriptions		300
	5500	Travel - Domestic	Attending Ocean Sciences'2016 Meeting	Yanwu Zhang	2,200
Total Expenses					3,100

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901513	205	ENG-Research Specialist	Zhang, Yanwu	Packard	1,600
	ENG-Research Specialist				1,600
	210	ENG-Electrical Engineer	Klimov, Denis	Packard	25
		ENG-Electrical Engineer	Mellinger, Edward	Packard	25
	ENG-Electrical Engineer				50
	300	ENG-Mechanical Engineer	Hobson, Brett	Packard	25
	ENG-Mechanical Engineer				25
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	60
		ENG-Software Eng - Embedded	McEwen, Robert	Packard	40
		ENG-Software Eng - Embedded	Stanway, Michael	Packard	280
	ENG-Software Eng - Embedded				380
	355	ENG-Software Eng - Info Eng	Rueda-Velasquez, Carlos	Packard	140
	ENG-Software Eng - Info Eng				140
	Total Labor Hours				2,195

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901513					
Total Ship Days					



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Project: **901601** Title: **Imaging, Mapping, and Change Detection TAG** Project Manager: **Caress, Dave**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901601					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901601	355	ENG-Software Eng - Info Eng	Caress, David	Packard	60
		ENG-Software Eng - Info Eng	Cline, Danelle	Packard	16
		ENG-Software Eng - Info Eng	Schlining, Brian	Packard	16
	ENG-Software Eng - Info Eng				92
Total Labor Hours					92

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901601					
Total Ship Days					



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Project: **901602** Title: **Data TAG: Towards Addressing Engineering Challenges** Project Manager: **TBD**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901602					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901602	160	SCI-Research Specialist	Bahr, Frederick	Packard	8
	SCI-Research Specialist				8
	355	ENG-Software Eng - Info Eng	Cline, Danelle	Packard	10
		ENG-Software Eng - Info Eng	Edgington, Duane	Packard	10
		ENG-Software Eng - Info Eng	Gomes, Kevin	Packard	50
		ENG-Software Eng - Info Eng	McCann, Michael	Packard	10
		ENG-Software Eng - Info Eng	Rueda-Velasquez, Carlos	Packard	10
		ENG-Software Eng - Info Eng	Schlining, Brian	Packard	10
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	10
	ENG-Software Eng - Info Eng				110
	Total Labor Hours				118

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901602					
Total Ship Days					



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Project: Title: **Video TAG: Visualizing Ocean Change in a New Era of Exploration and Discovery at MBARI**

Project Manager:
Edgington, Duane

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901603	5030	Conference Fees / Registration	GPU Technical Conference (Silicon Valley)	Danelle Cline	1,400
	5030	Conference Fees / Registration	ICML Machine Learning Conference registration	Duane Edgington	1,000
	5300	Supplies - Computer (Hardware)	High performance DevBox GPU for running deep learning models for automated classification		16,250
	5300	Supplies - Computer (Hardware)	Peripherals for DevBox GPU (monitor, keyboard, mouse, memory, external storage)		1,000
	5500	Travel - Domestic	Deep-learning expert visit to MBARI consult on prototype present an engineering talk. Potential candidates: Marc'Aurelio Ranzato (Facebook AI Research), LabQuoc V. Le (AI Lab, Stanford & Google), Andrej Karpathy (AI Lab, Stanford).	Collaborator	1,500
	5500	Travel - Domestic	GPU Technical Conference, April 4-8, 2016, Silicon Valley. \$200 transportation (driving), \$800 hotel.	Danelle Cline	1,000
	5500	Travel - Domestic	ICML Machine Learning Conference. June 19-24 2016, New York. \$600 transportation (airfare) \$1000 hotel and meals (dorm).	Duane Edgington	1,600
Total Expenses					23,750

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901603	355	ENG-Software Eng - Info Eng	Cline, Danelle	Packard	284
		ENG-Software Eng - Info Eng	Edgington, Duane	Packard	180
		ENG-Software Eng - Info Eng			464
	470	ITD-Video Support	Jacobsen Stout, Nancy	Packard	200
		ITD-Video Support			200
Total Labor Hours					664

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901603					
Total Ship Days					



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Project: **901604** Title: **Jupiter Research Foundation / MBARI Collaboration**

Project Manager: **Chavez, Francisco**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901604					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901604	210	ENG-Electrical Engineer	Klimov, Denis	Packard	100
	ENG-Electrical Engineer				100
	350	ENG-Software Eng - Embedded	Kieft, Brian	Packard	40
		ENG-Software Eng - Embedded	O'Reilly, Thomas	Packard	260
	ENG-Software Eng - Embedded				300
Total Labor Hours					400

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901604					
Total Ship Days					



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Project: **901606** Title: **Park and Fly AUV for Long-term Abyssal Surveys**

Project Manager: **Smith, Ken**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901606	5360	Supplies - General	Inspired Energy Packs with new shut-down circuitry. Eight packs are needed to fully populate the smallest of the battery banks: \$1125 (8@ \$130+ tax and shipping)		1,125
Total Expenses					1,125

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901606	210	ENG-Electrical Engineer	McGill, Paul	Packard	70
		ENG-Electrical Engineer	Sherman, Alana	Packard	40
	ENG-Electrical Engineer				110
	280	ENG-Mechanical Tech	Ferreira, John	Packard	20
	ENG-Mechanical Tech				20
	290	ENG-Machinist		Packard	30
	ENG-Machinist				30
	300	ENG-Mechanical Engineer	Hamilton, John	Packard	70
		ENG-Mechanical Engineer	Hobson, Brett	Packard	40
	ENG-Mechanical Engineer				110
Total Labor Hours					270

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901606					
Total Ship Days					



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Project: **901607** Title: **Ventana Tool-sled Control Upgrade** Project Manager: **Dawe, Craig**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901607	5110	Outside Srv - Software Design/Programming	Greenseas Systems support for internal development effort		19,000
	5300	Supplies - Computer (Hardware)	Laptop for development and testing (later for configuration and maintenance)		3,000
	5330	Supplies - Non-Capitalized Equipment	Subsea hardware connectors power supplies and project supplies		7,600
Total Expenses					29,600

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901607	210	ENG-Electrical Engineer	Martin, Eric	Packard	240
	ENG-Electrical Engineer				240
	270	ENG-Electrical Tech		Packard	40
	ENG-Electrical Tech				40
	290	ENG-Machinist		Packard	40
	ENG-Machinist				40
	350	ENG-Software Eng - Embedded	Risi, Michael	Packard	120
	ENG-Software Eng - Embedded				120
	355	ENG-Software Eng - Info Eng	Schramm, Richard	Packard	280
	ENG-Software Eng - Info Eng				280
Total Labor Hours					720

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901607	MBARI	25	Rachel Carson (10 hour day)	2.0	0.0
Total Ship Days				2	0



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Project:
901608

Title: **Wave Glider Sensor Payload Box and Tow Body Engineering**

Project Manager:
Chavez, F

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901608	5330	Supplies - Non-Capitalized Equipment	Cables, mounting, protocol analyzer interface for Sensor Payload integration of OASIS5		1,650
	5330	Supplies - Non-Capitalized Equipment	mounting hardware, electronics, cables, NVidia TK1 modules, PCB fab, electronic parts for Towbody		4,850
Total Expenses					6,500

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901608	270	ENG-Electrical Tech	Coenen, Paul	Packard	40
		ENG-Electrical Tech	Rosal, Jose	Packard	44
	ENG-Electrical Tech				84
	305	ENG-Mechanical Eng-Mfg	Bird, Larry	Packard	60
	ENG-Mechanical Eng-Mfg				60
	350	ENG-Software Eng - Embedded	Herlien, Robert	Packard	240
		ENG-Software Eng - Embedded	Maughan, Thomas	Packard	190
	ENG-Software Eng - Embedded				430
	390	DMO-AUV Support	Conlin, Douglas	Packard	40
	DMO-AUV Support				40
Total Labor Hours					614

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901608	MBARI	29	Paragon	4.0	
Total Ship Days				4	



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Project: 901609	Title: Wireless Power and Data Wet Mate-able Instrument Connector	Project Manager: TBD
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Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901609	5330	Supplies - Non-Capitalized Equipment	Electronic parts, PCB fabrication, assembly		3,460
	5330	Supplies - Non-Capitalized Equipment	Potting material, mold making compound, wiring and connectors		825
Total Expenses					4,285

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901609	270	ENG-Electrical Tech	Rosal, Jose	Packard	40
	ENG-Electrical Tech				40
	280	ENG-Mechanical Tech	Scholfield, James	Packard	40
	ENG-Mechanical Tech				40
	350	ENG-Software Eng - Embedded	Maughan, Thomas	Packard	160
ENG-Software Eng - Embedded					160
Total Labor Hours					240

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901609					
Total Ship Days					



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Project:
901610

Title: **Torquaratorid Acorn Worm Diversity and Ecology**

Project Manager: **Osborn, Karen**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901610					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901610	470	ITD-Video Support	Kuhn, Linda	Packard	80
	ITD-Video Support				80
Total Labor Hours					80

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901610					
Total Ship Days					



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Project: **901612**

Title: **Mini-ROV Enhancements**

Project Manager: **Graves, D**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901612					
Total Expenses					

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours
901612	305	ENG-Mechanical Eng-Mfg	Graves, Dale	Packard	340
	ENG-Mechanical Eng-Mfg				340
	350	ENG-Software Eng - Embedded	Risi, Michael	Packard	210
	ENG-Software Eng - Embedded				210
	355	ENG-Software Eng - Info Eng	Schlining, Brian	Packard	180
		ENG-Software Eng - Info Eng	Schramm, Richard	Packard	200
	ENG-Software Eng - Info Eng				380
Total Labor Hours					930

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901612	MBARI	25	Rachel Carson (10 hour day)	4.0	0.0
Total Ship Days				4	0



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Project: **901618** Title: **Pelagic-Benthic Coupling**

Project Manager: **Huffard, Christine**

Expenses:

Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901618	1500	Capital Item > \$5,000 Unit Cost	Two new optodes with cables and dummy plugs		13,250
	5030	Conference Fees / Registration	Huffard to ASLO	Crissy Huffard	650
	5030	Conference Fees / Registration	Ken Smith to ALSO	Ken Smith	650
	5090	Maintenance and Repair	Camera tripod servicing budget		5,000
	5090	Maintenance and Repair	Repair current meter that goes on camera tripod		3,755
	5090	Maintenance and Repair	Resources to handle maintenance and calibration for lab equipment not covered by divisional funds.		2,000
	5090	Maintenance and Repair	Rover servicing budget		12,000
	5090	Maintenance and Repair	SES servicing budget		7,000
	5130	Outside Srvc - General	Argos service for satellite beacons		2,000
	5130	Outside Srvc - General	CHN Analysis of sediment trap and push core samples for one cruise at Sta. M		3,500
	5130	Outside Srvc - General	Digitizing of Film archives- Camera sled		25,000
	5200	Postage / Shipping	Postage/Shipping of lithium batteries, repair items		2,000
	5300	Supplies - Computer (Hardware)	Digital Storage		1,000
	5330	Supplies - Non-Capitalized Equipment	Argos beacon for sediment trap		5,000
	5330	Supplies - Non-Capitalized Equipment	Strobe and remote head assembly for SES		2,810
	5360	Supplies - General	10 Battery Packs for Benthos Releases @ \$300 each- Station M		3,000
	5360	Supplies - General	Alkaline batteries for sediment traps, beacons, strobes.		800
	5360	Supplies - General	Ballast material for moorings, Rover, and SES		1,000
	5360	Supplies - General	Benthos modem MF battery pack: 1 for Rover 1 for SES		700
	5360	Supplies - General	Cruise supplies		3,500
	5360	Supplies - General	Current meter (Camera Tripod) batteries for Station M		300
	5360	Supplies - General	Li Batts for Camera Tripod for deployments of 2 camera systems		10,000
	5360	Supplies - General	Lithium Battery packs for one Rover deployment beginning Oct 2015		24,228
	5360	Supplies - General	SES lithium battery packs for 1 deployment		14,737
	5360	Supplies - General	Supplies to improve the lab's Open House display		500
	5360	Supplies - General	Wabo battery pack- 1 deployment		175
	5380	Supplies - Science Lab	General science lab supplies (consumables)		4,500
	5380	Supplies - Science Lab	Microbial analyses		2,900



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Project ID	Account ID	Account Name	Description	Participant Traveler	Amount
901618	5380	Supplies - Science Lab	Preservatives and jars for sample collection		750
	5500	Travel - Domestic	ASLO New Orleans airfare, meals, lodging (Huffard)	Crissy Huffard	1,796
	5500	Travel - Domestic	ASLO New Orleans airfare, meals, lodging (Smith)	Ken Smith	1,796
Total Expenses					156,297

Labor Hours:

Project ID	GLC	GLC Description	Employee Name	Funding Source	Hours	
901618	170	SCI-Research Tech	Huffard, Christine	Packard	1,840	
		SCI-Research Tech	Preston, Christina	Packard	240	
	SCI-Research Tech					2,080
	180	SCI-Scientist	Smith, Kenneth	Packard	1,840	
		SCI-Scientist				
	210	ENG-Electrical Engineer	McGill, Paul	Packard	450	
		ENG-Electrical Engineer	Sherman, Alana	Packard	500	
	ENG-Electrical Engineer					950
	270	ENG-Electrical Tech	Marion, Thomas	Packard	240	
		ENG-Electrical Tech				
	280	ENG-Mechanical Tech	Ferreira, John	Packard	880	
		ENG-Mechanical Tech				
	300	ENG-Mechanical Engineer	Cazenave, Francois	Packard	60	
		ENG-Mechanical Engineer	Hobson, Brett	Packard	40	
	ENG-Mechanical Engineer					100
	350	ENG-Software Eng - Embedded	Henthorn, Richard	Packard	440	
		ENG-Software Eng - Embedded				
	355	ENG-Software Eng - Info Eng	Schlining, Brian	Packard	100	
		ENG-Software Eng - Info Eng				
	470	ITD-Video Support	Kuhn, Linda	Packard	520	
		ITD-Video Support	von Thun, Susan	Packard	110	
	ITD-Video Support					630
	Total Labor Hours					7,260

Ship Time:

Project ID	Funding Source ID	Ship ID	Ship Name	Days	Transit Days
901618	MBARI	24	Western Flyer	9.0	2.0
	MBARI	25	Rachel Carson (10 hour day)	2.0	0.0
	MBARI	30	Wave Glider	7.0	
Total Ship Days				18	2