

MISA Research Activity Report

August 2008

Summary of MISA staff

Report Date 25/08/2008

MISA Node	Staff	Position	Level	MISA support FTE's	SARDI support	Uni support	External support	notes
BIOSECURITY	TANNER J	Node Leader	PO503	0.20	0.80	0.00	0.00	Shared with Core support
	ROWLING K	PC Facility Dev Support	PO106	0.10	0.00	0.00	0.90	Shared with External projects
	MADIGAN S	MISA Program Manager	PO501	0.25	0.00	0.00	0.00	Shared across all Nodes
	SHARMA S	Spatial Modeller	PO301	0.20	0.00	0.00	0.80	Shared with External projects
	SVANE I	Marine Pests - Invertebrates	PO404	0.50	0.50	0.00	0.00	Shared with Core support
	DEVENEY M	Marine Pests - Sub Prog Leader	PO403	1.00	0.00	0.00	0.00	
	VAN RUTH P	Micro Algae	PO201	1.00	0.00	0.00	0.00	Started July 2008
	TOTAL				3.25	1.30	0.00	1.70
AQUACULTURE	CLARKE S	Node Leader	PO503	0.20	0.80	0.00	0.00	Shared with Core support
	LI X	Genetics & Biotech - Shellfish	PO303	0.80	0.00	0.00	0.20	Shared with External projects
	MADIGAN S	MISA Program Manager	PO501	0.25	0.00	0.00	0.00	Shared across all Nodes
	WYATT G F	Nutrition Extruder	OPS403	0.50	0.00	0.00	0.50	Shared with External projects
	TBA	Fish Health - Sub Program Leader	PO503	0.50	0.00	0.50	0.00	PD is being finalised with AU
	STONE D	Fish Nutrition	PO404	1.00	0.00	0.00	0.00	
	HAYWARD C	Fish Health	PO302	1.00	0.00	0.00	0.00	
	TBA	Nutrition Prop.	PO204	1.00	0.00	0.00	0.00	Position on hold
	CHEN B	Larval Rearing Post doc		0.50	0.00	0.50	0.00	
	TBA	Quantative Genetics Post doc	Level B/C	0.50	0.00	0.50	0.00	FUSA, Interviews Aug 28th
	ROBINSON N	Contractor	PO501	1.00				
	TOTAL				7.25	0.80	1.50	0.70

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ECOSYSTEM SERVICES	SEURONT L	Node Leader	PO404					
	MADIGAN S	MISA Program Manager	PO501	0.25	0.00	0.00	0.00	Shared across all Nodes
Wild Fisheries	GOLDSWORTHY S	Pelagic Ecologist	PO501	0.80	0.00	0.00	0.20	Shared with External projects
	CURRIE D	Benthic Ecologist	PO303	0.50	0.00	0.00	0.50	Shared with External projects
	HUVENEERS C	Shark Ecologist	PO3/O4	0.50	0.00	0.50	0.00	Offers accepted, starting Dec 2008
	TBA	Cetacean Ecologist	Level B/C	0.50	0.00	0.50	0.00	Recommendation to appoint. Letter of offer to come once contract is prepared.
	SUB TOTAL			2.55	0.00	1.00	0.70	
Marine Environment / Oceanography	MIDDLETON J	Physical Oceanographer	PO503	0.80	0.20	0.00	0.00	Shared with Core support
	SEURONT L	Biological Oceanographer	PO404	0.50	0.00	0.50	0.00	Started July 2008
	LUICK J	Physical Oceanographer	PO204	0.10	0.00	0.00	0.90	50 % IMOS, 50% MISA from July 1
	JAMES C	Physical Oceanographer	PO202	0.10	0.00	0.00	0.90	50 % IMOS, 50% MISA from July 1
	GURGEL F	Marine Botanist	U OF AD	0.25	0.00	0.25	0.50	U of A
	BRADSHAW C	Ecosystem Modeller	PO503	0.50	0.00	0.50	0.00	
	WU L	Research assistant	PO1	0.20	0.00	0.80	0.00	FU
	LETERME S	Junior biological oceanographer	Level C	0.33	0.00	0.33	0.33	Funded by IMOS, MISA and FUSA
	BYRNES S	Casual technical officer		0.00	0.00	0.00	0.00	Started July 2008, funded through a joint project with FUSA
	TELXERIA C			0.00	0.00	0.00	0.00	PhD student
	SUB TOTAL			2.78	0.20	2.38	2.63	
	TOTAL			5.33	0.20	3.38	3.33	

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PRODUCT	CARRAGHER J	Node Leader	PO503	0.20	0.80	0.00	0.00	Shared with Core Support Innovative
QUALITY & VALUE ADDING	MADIGAN S	MISA Program Manager	PO501	0.25	0.00	0.00	0.00	Shared across all Nodes
	MUSGROVE R	Supply Chain	PO204	0.50	0.00	0.00	0.50	Shared with Seafood CRC
	MADIGAN T	Oyster Microbiology	PO105	0.50	0.00	0.00	0.50	Shared with External projects
	PADULA D	Residues in Seafood	PO301	0.50	0.00	0.00	0.50	Shared with External projects
	HOMAN N	Residues in Seafood	PO101	0.50	0.00	0.00	0.50	Shared with External projects
	RAJ M	Seafood Processor	PO503	1.00	0.00	0.00	0.00	
	D'ANTIGNANA T	Seafood Physiologist	Level B	0.50	0.00	0.50	0.00	FU
	TBA	Shellfish Biotoxin / Virologist	PO401	0.50	0.50	0.00	0.00	Starting Sept 08 with Food Safety Division
	Erenberg Bass	(UNI-SA) 80K		1.00	0.00	0.00	0.00	
	TOTAL			5.45	1.30	0.50	2.00	

All Research Nodes combined:

nb: these figures represent the proportion of support of the position

MISA support FTE's	SARDI support	Uni support	External support
21.28	3.60	5.38	7.73

Number of joint positions

MISA	9
MISA/SARDI	6
MISA/University	9
MISA/External funds	12
MISA/University/ External funds	2

Summary of current MISA Projects
Report Date 25/08/2008
Research Node BIOSECURITY

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
SVE-08-4113	F2008/000094	<i>Caulerpa taxifolia</i> : Ecological and economic risk assessment-year 2.	Tanner, Jason	1/07/2007	30/06/2008	250,000	Tanner, J. Rowling, K. Deveney, M.	West Beach	Final report in progress.
SLA-4237	F2007/000215	Port River Marine Pest Survey: Implementation of the pest surveys guidelines developed for ports and harbours as part of the National System for the Preventions and Management of Marine Pest Incursions Phase 1.	Rowling, Keith	1/07/2007	30/06/2008	182,876	Rowling, K. Tanner, J. Deveney, M.	West Beach	Evaluation report in preparation. Additional plankton samples taken.
5434	F2008/000546	Marine Investigation for Stansbury Marina EIS.	Tanner, Jason	2/01/2008	30/06/2008	25,545 (Gupta Environ. & planning consultant)	Tanner, J.	West Beach	Field and lab work completed.
SVE-4374	F2008/000541	Provision of an Executive Officer for the Aquatic Animal Health Committee.	Deveney, Marty	28/02/2008	30/06/2008	35,000 (DAFF)	Deveney, M	West Beach	Project completed. Final report due to DAFF end August 2008.
SLA-08-4115	F2008/000095	<i>Caulerpa taxifolia</i> : 2008 survey of current distribution and high risk areas.	Rowling, Keith	7/01/2008	30/06/2008	55,483 (PIRSA)	Rowling, K.	West Beach	Port River and Barker Inlet completed. Report in preparation.
SVE-4324	F2008/000091	Marine ecological characterisation study for a possible desalination plant to supply Adelaide.	Tanner, Jason	3/12/2007	31/12/2008	301,694 (SA Water)	Tanner, J.	West Beach	First video and dive surveys completed.

Summary of current MISA Projects
Report Date 25/08/2008
Research Node AQUACULTURE

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
Aquaculture (Current Projects)									
R&D 5831	043713	Saline groundwater interception - mulloway feed formulation and production.	Hutchinson Wayne	1/07/2004	1/12/2007	2,060,000	Buchanan, J. Wyatt, G.	Roseworthy	MISA funded aspect completed; project in final stages of reporting.
R&D 5408	2001/249	Manufactured tuna diet trials - including air stable feeds and publishing.	van Barneveld, Robert	1/07/2002	30/06/2008	995,000	Wyatt, G. Buchanan, J. Wee, L.	Roseworthy Port Lincoln	Draft final report submitted through the SARDI internal review process.
R&D-C-589D	2008/704	Review of available software tools that can be used to support selective breeding programs in the AS CRC.	Clarke, Steven	31/01/2008	28/02/2008	14,850	Li, X. Robinson, N. Mair, G.	West Beach	AAGA AS-CRC grant application – Draft report submitted to the SARDI internal review process.
R&D-4358	2008/722	Scope and economic analysis of options for a national unified breeding program that provides significant economic benefit to the Australian abalone aquaculture industry.	Li, Xiaoxu	1/03/2008	31/08/2008	49,828	Li, X. Robinson, N.	West Beach	First milestone report submitted. Draft final report submitted to all authors for final comment.
R&D-4380	2008/711	AS-CRC Clean Seas Tuna Ltd (Addressing key aquatic animal health issues limiting production of Australian yellowtail kingfish (<i>Seriola lalandi</i>) and hatchery-reared southern bluefin tuna (<i>Thunnus maccoyii</i>) industries).	Hayward, Craig	1/03/2008	28/02/2011	311,567	Hayward, C. Padula, D. Stone, D. Clarke, S.	Port Lincoln	Contract has been signed.
R&D-4375	FIS/2006/140	ACIAR – Gondol Laboratory, Indonesia	Hutchinson, W.	1/06/2008	31/05/2010	\$150,000	Chen, B.	Gondol, Indonesia	Contract signed. Project to facilitate Australian interests in using YFT as a surrogate for SBT and as a novel Australian aquaculture species.
		Adelaide Uni Roseworthy Livestock Group (YTK and mulloway digestibility & gut evacuation rate trial).	Clarke, Steven	1/02/2008	31/12/2008		Stone, D.	West Beach	Tank trial component of Honour student project completed; sample analysis occurring.

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Aquaculture (Post Doctoral Positions)									
R&D-4372	2008/709	AS CRC - Post doctoral research scientist - larval and early juvenile marine finfish rearing scientist.	Clarke, Steven	1/04/2008	31/03/2011	375,000	Chen, B.	West Beach	Started 1st April 2008. Contract has been signed.
R&D-4371	2008/725	AS CRC - Post doctoral research scientist - SARDI Aquatic animal health scientist.	Clarke, Steven	1/04/2008	31/03/2011	187,500	Hayward, C.	Port Lincoln	Started 5 th May 2008. Contract signed.
R&D-4391	2008/705	AS-CRC - Post doctoral research scientist - SARDI Quantitative geneticist.	Li, Xiaoxu	1/04/2008	31/03/2011	187,500			Contract has been signed.
Aquaculture (Commercial contracts)									
		Development of FRDC/CRC abalone health/nutrition grant application for AAGA.	Clarke, Steven				Stone, D. Hayward, C.	SARDI	Assessing potential to develop as AS-CRC PhD project, an approach supported by the AAGA.
5071		Extruder – aquafeeds & extruder training.	Stone, David				Stone, D. Wyatt, G.		Contract with Ridley Cooperation completed and forwarded for their signature.
5071		Extruder – various stock and aquafeeds.	Stone, David						Contract with EP Aquafeeds (abalone diet) for signing. Quote being prepared for 20 tonnes of abalone feed for a farmer. Contracts for Australian bird and pet food ready for signing. Toll work commenced.
5071		Evaluation of fatty acid metabolism in juvenile barramundi.	Stone, David				Stone, D.		PhD project with Adelaide University (Bob Gibson). Contract in Execution process.

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Research Node AQUACULTURE

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
Aquaculture (Developing Projects)									
		FRDC application: abalone <i>Perkinsus</i>	Clarke, Steven				Hayward, C.	Port Lincoln	Application being resubmitted to FRDC after modification.
		ABA AusIndustry grant application - internationally competitive and sustainable abalone hatchery/nursery system.	Clarke, Steven	Nov 2007	Oct 2010		Li, X., Hayward, C	West Beach	Met with Anthony Cheshire who is now acting as ABA manager. Wish to amend this project and initiate 2 others as well. AusIndustry Commercial Ready Sceme closed so project proposal terminated.
		ABA – FRDC: sea urchin aquaculture feasibility study.	Li, Xiaoxu	July 2008			Li, X.	West Beach Elliston	SAFRAB proposal submitted and draft full proposal now under development.
		Aquafeed AusIndustry grant application (oyster conditioning).	Li, Xiaoxu	Dec 2007	Dec 2009		Li, X.	West Beach	Company restructured; now dealing with Aquaoysters, which is developing a new business plan. AusIndustry Commercial Ready Scheme closed so project proposal terminated.
		AS-CRC - Tas. Seafoods (sea cucumber population genetics).	Li, Xiaoxu	Jan 2008	Dec 2010		Li, X.	West Beach	Project approved by CRC, SARDI has minor role. S Clarke and X Li met with potential project collaborators in China. Flinders preparing contract with AS-CRC.
		AS-CRC - Cleans Seas Tuna (SBT larval rearing project).	Hutchinson, Wayne	Feb 2008	June 2011		Chen, B. Hutchinson W.	West Beach Arno Bay	Project approved by AS-CRC. Subcontract to be prepared. CST provided a small number of larvae which did not survive. Project activity suspended until next season.
		AS-CRC – Cleans Seas Tuna (YTK larval rearing project).	Hutchinson, Wayne				Chen, B.	West Beach Arno Bay	Project approved by AS-CRC. Subcontract to be prepared.
		Clean Seas Tuna (SBT experimental commercial feed trial).	Clarke, Steven	Feb 2008	Dec 2010	0.2FTE/ annum + operating costs	Stone, D.	Arno Bay	D Stone continuing to provide advice as sought and attending fish sampling days in Port Lincoln.

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Aquaculture (Developing Projects)									
		AS-CRC Clean Seas Tuna PhD application (YTK diet & pellet form).	Clarke, Steven	Feb 2008	?		Stone, D.	West Beach Arno Bay	Project proposal developed with Jian Qin (FUSA), submitted to AS-CRC, and approved subject to some modifications.
		FRDC (Cockle aquaculture feasibility project).	Li, Xiaoxu	Mar 2008			Li, X.	West Beach & coastal locations	Recently met with PIRSA Aquaculture and Fisheries and Food SA to discuss. Preproposal submitted to SAFRAB and draft full proposal under development.
		MISA Aquaculture Innovation Node management - including appointments	Clarke, Steven				Chen, B. Hayward, C. Stone, D. Hutchinson, W.	West Beach	Ongoing. Appointing AS-CRC project technicians.
		Yellowtail kingfish performance / nutrition	Stone, David				Stone, D.	West Beach	D Stone is liaising with NSW DPI and CST to develop these two projects.
		FRDC (SBT capture fishery health)	Hayward, Craig				Hayward, C. Stone, D.	Port Lincoln	ASBTIA identified large multi-institutional project as their highest priority. C. Hayward working with Barbara Nowak and David Ellis to develop aspects of draft full FRDC proposal.
		FRDC (SBT Fouling Management)	Clarke, Steven				Hayward, C. Stone, D.	?	ASBTIA identified multi SARDI science program area project as a high priority. S Clarke working with David Ellis to develop the draft full FRDC proposal.
		Feeding behaviour of cultured mulloway	Stone, David	Aug 2008	Aug 2009		Stone, D.		Being developed in co-operation with Jian Qin (FUSA).
		Nutritional factors influencing the performance of yellowtail kingfish (<i>Seriola lalandi</i>) cultured at low temperatures.	Stone, David	Early 2009			Stone, D.		PhD project: D Stone and J Qin supervisors. Managed by FUSA.

Summary of current MISA Projects
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Research Node PRODUCT QUALITY AND VALUE ADDING

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
PQVA (Current Projects)									
2008/708		AS CRC – Post doctoral research scientist – SARDI Seafood Processing Scientist.	Carragher, John	1/04/2008	31/03/2011	375,000	Raj, M. Carragher, J.	Regency Park	Contract signed.
2008/717		Improving post-harvest quality of sardines through utilisation of flow ice technology.	Carragher, John	1/11/2008	31/03/2009	51,712	Carragher, J. Musgrove, R. D'Antignana, T.	Port Lincoln	Project temporarily on hold, contract still in execution process.
2004/209		Provide a baitfish supplement diet for the effective delivery of specific nutrient requirements for juvenile farmed SBT (<i>Thunnus maccoyii</i>).	D'Antignana, Trent	1/09/2007	30/09/2008	112,375 (Aquafin CRC, FRDC)	D'Antignana, T.	Port Lincoln	All milestones have been achieved. Draft final report (being prepared) is due by the end of September.
2007/703		Intervention strategies to maintain the safety and quality in a range of value added products made with under utilised SEESF species.	Boulter, Mark (Sydney Fish Market)	10/09/2007	30/04/2008	115,680 (AS CRC, FRDC)	D'Antignana, T.	Port Lincoln	Project is underway. PI is Sydney Fish Market and Trent is a sub-contractor. Biochemical analysis due to commence mid september.
2007/717		Southern Bluefin Tuna (SBT) maturation and sexing; develop and apply new technologies.	Foster, Craig (Consultant)	1/11/2007	30/06/2010	313,097 (AS CRC, FRDC)	D'Antignana, T.		Project is underway. PI is Cleanseas Tuna. Trent is a sub-contract.
		SRL – reducing mortality during live export.	SRL	Late 2008	Late 2010	80,000	Musgrove, R. Carragher, J.		Due to submit to July RAC
		High Pressure Processing for western and southern rock lobster.	SARDI	Late 2008	Early 2009		Raj, M. Carragher, J.		Due to submit to July RAC
SVE L 5696		Salmon residue testing.		01/04/2008	31/12/2008	14,091	Padula, D. Homan, N.	Regency Park	
SVE K 5696		Bream residue testing.		01/04/2008	31/12/2008	2,395	Padula, D. Homan, N.	Regency Park	
SVE J 5696		SSA Consultancy.		01/01/2008	30/06/2009		Padula, D. Madigan, T.	Regency Park	

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PQVA (Current Projects)									
R&D 4301	2007/ 700	A critical evaluation of supply-chain temperature profiles to optimise food safety and quality of Australian oysters.		01/10/2007	30/11/2008	77,039	Madigan, T.	Regency Park	Milestone 1 met.
SVE 4278 (& SVE A- F 4278)		AQIS Market Access Program.		01/07/2007	ongoing	68,118 (07/08), ~90,000 (08/09)	Homan, N. Padula, D.	Regency Park	ongoing
R&D 5910	2004/ 401	A market access guide for seafood exporters: International residues, standards.		01/05/2004	01/09/2009 (possible extension)	226,772	Padula, D.	Regency Park	
	PIRSA	Abalone EU Market Access.		01/03/2008	31/01/2009		Padula, D.	Regency Park	
	2008/ 219	Aquafin CRC - Southern Bluefin Tuna Aquaculture Subprogram: Net fouling management to enhance water quality and Southern Bluefin Tuna (<i>Thunnus maccoyii</i>).		01/04/2008	31/12/2008	10,600 (For DP)	Padula, D.	Regency Park	

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Research Node PRODUCT QUALITY AND VALUE ADDING

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PQVA (Activities of M Raj)									
		Angelakis Brothers						Adelaide	Plant layout, process flow, improvements to product quality, sanitation advice, cost efficiencies in running plant.
		Port Lincoln Fresh Fish Company						Port Lincoln	Plant layout, process flow, improvements to product quality, blast freezer design and cost quotations, cost efficiencies in running plant.
		Dover Fisheries						Adelaide	Cost efficiencies in running plant – chilled water unit, labour efficiencies.
		Western Abalone						Port Lincoln	Improvements to product quality through more efficient blast freezing practices, labour efficiencies.
		Australian Hiramasa						Whyalla	Review of existing plant operations; advice about new factory and plant design brief.
		Ferguson Fisheries						Adelaide	Cost efficiencies in running plant - advice.
		On-land abalone farms - general						SA	Cost of power for pumping seawater, pump sizes and power use calculations.
		Abalone Council of Australia (meeting at SARDI 21st July)						Adelaide	Presentation – maximising yield, protecting quality and minimising costs – project scoping.
		Cappo Brothers						Adelaide	Advice on Quality Assurance and Quality Control practices and operations.

Summary of current MISA Projects
Report Date 25/08/2008
Research Node ECOSYSTEMS SERVICES (Wild Fisheries)

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
Wild Fisheries (Current Projects)									
SVE-4173	F2008/000020	Performance assessment of the Benthic Protection Zone of the GAB Marine Park.	Currie, David	20/06/2006	30/04/2008	253,638 (MISA and C/wealth)	Currie, D.	West Beach	Report currently in review.
SVE-4265	F2007/000553	Developing population monitoring protocols for Australian sea lions.	Goldsworthy, Simon	1/01/2007	14/03/2008	68,940 (DEH)	Goldsworthy, S.	West Beach	Report in SARDI internal review.
SVE-08-4265	27	Developing population monitoring protocols to determine the abundance of Australian sea lions at key subpopulations in South Australia.	Goldsworthy, Simon	1/11/2007	26/10/2008	54,344 (DEH)	Goldsworthy, S.	West Beach	First progress report submitted.
R&D-4302	2007/041	Mitigating seal interactions in the SRLF and gillnet sector SESSF in South Australia.	Goldsworthy, Simon	1/09/2007	30/06/2009	305,821 (FRDC)	Goldsworthy, S.	West Beach	First milestone report accepted.
R&D-5912	2004/201	PIRSA Aquaculture – FRDC innovative solutions for aquaculture: seal interaction with finfish aquaculture.	Goldsworthy, Simon	16/08/2004	30/06/2006	494,479 (FRDC)	Goldsworthy, S.	West Beach	Draft final report submitted.
SVE-4325	26	Methods for distinguishing foraging ecotypes within and among Australian sea lion subpopulations: their importance to defining genetic population structure and assisting spatial management of fisheries.	Goldsworthy, Simon	2/01/2008	31/12/2008	76,876 (Dept of Water, Land and Biodiversity)	Goldsworthy, S.	West Beach	First progress report sent in March 2008.
SVE-5841	F2008/000007	The role of genetic and social factors in shaping alternate foraging strategies within and among Australian sea lion subpopulations.	Goldsworthy, Simon	1/01/2008	31/12/2008	2,000 (Nature Foundation SA)	Goldsworthy, S.	West Beach	Contract signed. Report due December 2008.
SVE-4337	SWR/9/2008	The role of genetic and social factors in shaping alternate foraging strategies within and among Australian sea lion subpopulations.	Goldsworthy, Simon	22/01/2008	30/06/2009	29,946 (Sea World R&R Fund)	Goldsworthy, S.	West Beach	Contract signed. Report due June 2009.

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Research Node ECOSYSTEMS SERVICES (Wild Fisheries)

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
Wild Fisheries (Current Projects)									
SVE-A-5841	F2008/000006	Movement patterns of threatened pelagic sharks in southern Australia: determining critical habitats, hot-spots and migration corridors to enhance policy development and conservation management.	Goldsworthy, Simon	1/01/2008	31/12/2008	8,000 (Nature Foundation SA)	Goldsworthy, S.	West Beach	Contract signed. Report due December 2008.
SVE-D-5841	F2008/000310	Pup production assessment of the Australian sea lion at Dangerous Reef and English Island, SA.	Goldsworthy, Simon	1/02/2008	30/09/2008	10,000 (DEH, Wildlife Cons. Fund)	Goldsworthy, S.	West Beach	Field work commenced. Report due Sept. 2008.
SVE-E-5841	2007/09774	Status and trends in abundance of the threatened sub-Antarctic fur seal at Macquarie Island.	Goldsworthy, Simon	1/05/2008	31/07/2008	15,029 (DEWHA)	Goldsworthy, S.	West Beach	Contract signed. Final report due 31 July 2008.
SVE-F-5841	2007/08324	Updating the report "Understanding the impediments to growth of Australian sealion populations".	Goldsworthy, Simon	1/06/2008	15/08/2008	28,391 (DEWHA)	Goldsworthy, S.	West Beach	Contract signed. Draft report due 25 July 2008.
SVE-G-5841	F2008/000521	Spatial modelling of the distribution of Australian sealion foraging effort in SA waters.	Goldsworthy, Simon	1/05/2008	29/08/2008	9,091 (DEWHA)	Goldsworthy, S.	West Beach	Contract signed. Final report due Sept 2008.
SVE-L-5453	F2007/000099	Australian Sea Lion populations at Seal Bay and Seal Slide (Kangaroo Island): continuation of the monitoring program.	Goldsworthy, Simon	30/04/2007	31/12/2007	11,000 (DEH)	Goldsworthy, S.	West Beach	Final report being completed.
SVE-4098	F2008/000019	Addressing direct interactions between the Australian sea lion and shark fishing vessels in the GAB Marine Park: a management focus.	Goldsworthy, Simon	11/01/2006	7/05/2008	23,000 (DEH)	Goldsworthy, S.	West Beach	Extended. Final report due August 2008.

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Research Node ECOSYSTEMS SERVICES (Wild Fisheries)

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff	Location	notes/progress
Research Node ECOSYSTEMS SERVICES (Oceanography)									
R&D 4176	2006/046	FRDC environmental variability.	Middleton, John	15/08/2006	30/11/2007	58,000	James, C.	West Beach	Final draft paper (Article 4) submitted.
4266/4267		SAIMOS/HFRADAR and moorings.	Middleton, John	1/07/2007	30/06/2011	3,340,000	Middleton, J. Luick, J. James, C.	West Beach	Underway.
R&D-4035	2005/059	Risk & Response (Aquafin CRC).	Tanner, Jason	1/07/2005	30/06/2008	1,561,867	Middleton, J. Luick, J. Wu, L.	West Beach	Final report nearly completed.
		Ocean circulation of Spencer Gulf.	Middleton, John	1/08/2006	1/08/2010	Funded by Brazilian Govt.	Middleton, J.	West Beach	PhD student. (C. Telxeria)
		Development of a hydrodynamic/biochemical modelling facility.	Middleton, John	1/07/2008	30/06/2011		Middleton, J. Luick, J. James, C. Seuront, L. Leterme, S.	West Beach	Started July 2008.

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Research Node BIOSECURITY

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff
SLA-4113	RD06/ 0329	<i>Caulerpa taxifolia</i> : Ecological and economic risk assessment - first year.	Tanner, Jason	1/03/2006	28/02/2007	186,315	Tanner, J. Westphalen, G.
SLA-4115	RD06/ 0330	<i>Caulerpa taxifolia</i> - 2006 survey of current distribution and high-risk areas.	Westphalen, Grant	30/01/2006	28/04/2006	51,000	Westphalen, G.
SVE-4006	RD04/ 0204	Investigation of risk & identification of treatment options & guidelines in relation to marine pest translocation associated with the aquaculture industry.	Westphalen, Grant	30/04/2005	30/06/2006	155,633	Westphalen, G.
SVE-4036	RD04/ 0197	Development of gene probes for introduced marine pest species.	Westphalen, Grant	10/06/2005	30/06/2006	227,273	Westphalen, G.
SVE-4115A	RD06/ 0751	Temperature and salinity tolerances of priority marine pests.	Westphalen, Grant	1/05/2006	28/07/2006	14,055	Westphalen, G.
		Review of Buffodine fish report.	Deveney, Marty	1/02/2008	20/03/2008	3,000	Deveney, M.

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Research Node AQUACULTURE

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff
R&D-5447	2001/254	Selective breeding of farmed abalone to enhance growth rates.	Li, Xiaoxu	4/02/2002	28/04/2005	314,080	
R&D-5508	2002/204	Development of techniques for production of homozygous Pacific oysters.	Li, Xiaoxu	1/07/2002	30/01/2005	254,945	
R&D-5645	2003/208	Reduction of Pacific oyster mortality by improving farming & processing techniques in SA.	Li, Xiaoxu	1/12/2002	30/12/2006	364,200	
	1994/081	Experimental production of tetraploid oysters for use as broodstock for commercial hatchery production of triploids.	Li, Xiaoxu				
R&D-5899	2004/212	Assessment of alternative platforms for SBT.	Hutchinson, Wayne	12/06/2004	11/02/2005	53,210	Hutchinson, W
	2004/209	Diets for Phil Thomas Aquafin CRC project on SBT product quality - includes YTK surrogate trials and publishing.	Thomas, Phil				Wyatt, G. Buchanan, J. Vandepeer, M.
	2005/200	Activity metabolism - includes SBT N15 work and publishing.	Seymour, Roger				Buchanan, J.
SVE-4264	F2007/ 000776	Kangaroo Island - abalone health project.	Hayward, Craig	31/05/2007	1/10/2007	12,000	Hayward, C. Li, X.
		Small YTK and snapper project with Kathy Schuller (FU) and Bob Gibson (U of A) to facilitate development of human health (influencing fatty acid profile using non fisheries feed ingredients) project for AS-CRC.	Schuller, Kathy Gibson, Bob				Wee, L. Vandepeer, M. Buchanan, J. Wyatt, G.

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Research Node PRODUCT QUALITY AND VALUE ADDING

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff
R&D-5506	2002/236	Optimising at-sea post harvest handling procedures for the pilchard.	Carragher, John	1/07/2002	31/01/2005	261,534	
R&D-4034	2004/211	Nutritional profiles of baitfish 3: effects of harvest and post harvest processes on quality of local baitfish for feeding SBT.	Carragher, John	1/06/2005	1/11/2006	305,109	
R&D-5817	2003/242	Value-adding southern rock lobster - optimising flesh quality of lobster for the sashimi market.	Carragher, John	1/07/2003	30/06/2006	287,538	
SVE-4034	2004/211	Nutritional profiles of baitfish 3: effects of harvest and post harvest processes on quality of local baitfish for feeding SBT.	Carragher, John	3/10/2005	31/12/2006	4,226	
SVE I 5696		Jade Perch residue testing.	Padula, David	1/06/2007	1/12/2007	1,300	
SVE C 5658 SVE D 5658 SVE E 5658		Evaluation of potential packaging for blue mussels.	Madigan, Thomas	1/12/2007	01/07/2008	6,891	
R&D D 5658	2008/730	Codex Alimentarius working group on pathogenic marine vibrio spp.	Madigan, Thomas	29/03/2008	31/07/2008	5,000	

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Research Node ECOSYSTEMS SERVICES (Wild fisheries)

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff
R&D-4050	2005/077	Interactions of the South Australian southern rock lobster and Commonwealth southern shark fisheries with fur seals and sealions.	Goldsworthy, Simon	1/07/2005	28/02/2006	19,999	
SVE-4182		The conservation of fur seals in the Antarctic Marine Ecosystem.	Goldsworthy, Simon	23/08/2006	30/06/2007	29,700	Goldsworthy, S.
R&D-4055	2005/031	Establishing ecosystem-based management for the SA pilchard fishery: developing ecological performance indicators and reference points to assess the need for ecological allocations.	Goldsworthy, Simon	1/07/2005	30/06/2007	799,999	
SLA-4073		Protected species interactions in the SA Sardine fishery.	Goldsworthy, Simon		30/06/2007	17,000	
SVE-5453F	RD06/ 0401	What is causing the decline in the number of Little Penguins breeding in the colony visited by tourists on Granite Island.	Goldsworthy, Simon	1/02/2006	30/11/2006	4,700	
SVE-5453G	RD06/ 0402	Pup production assessment and maternal investment strategies of the Australian sea lion <i>Neophoca cinerea</i> at Dangerous reef.	Goldsworthy, Simon	1/06/2006	28/02/2007	8,500	
SVE-5453H	RD03/ 0183	Population management and monitoring program for the seal bay Australian sea lion.	Goldsworthy, Simon	17/07/2006	31/08/2006	80,000	
SVE-5453I	RD03/ 0183	Sponges of the investigator islands.	Currie, David	20/05/2006	30/04/2007	4,575	

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Research Node ECOSYSTEMS SERVICES (Wild fisheries)

ID No	Proj. No.	Project Name	Manager	Start Date	End Date	Total Project Funds (\$)	MISA funded staff
SVE-5453J		Australian sea lion populations at Seal Bay and the Seal Slide: continuation of the monitoring program.	Goldsworthy, Simon	30/04/2007	1/12/2007	11,000	Goldsworthy, S.
SVE-4108		Foraging Ecology and diet analysis of Australian sea lions.	Goldsworthy, Simon	1/01/2006	1/12/2006	81,763	
SVE-4112		Developing population monitoring protocols for Australia sea lions.	Goldsworthy, Simon	1/01/2006	1/12/2006	44,000	
SVE-B-5841		Expert report on seal mortalities.	Goldsworthy, Simon	31/01/2008	14/02/2008	2,500	Goldsworthy, S.
		The role of submarine canyons in upwelling, sediment transport, and productivity hotspots off the Bonney Coast and Kangaroo Island, SA.	Currie, David	1/02/2008	28/02/2008	920,000	Currie, D.
