

Appendix 1: Sampled Populations, GPS waypoints and Dates of Collection

<u>Species/Population</u>	<u>Code</u>	<u>Date</u>	<u>GPS coordinates</u>	<u>n</u>	<u># Loci</u>
<i>Meridiastra calcar</i>					
Clovelly	CL	09/14/05	S 33 54.958' E 151 15.973'	46	7
Gordons Bay	GB	09/15/05	S 33 54.958' E 151 15.973'	43	7
Deewhy	DY	09/16/05	S 33 46.770' E 151 17.455'	38	7
Balmaural Beach	BM	09/17/05	S 33 49.392' E 151 15.178'	32	7
Little Bay	LB	09/18/05	--	29	7
Shell Harbor2	SH2	09/20/05	S 34 32.781' E 150 52.768'	46	7
Port Stevens	PS1	09/21/05	S 32 44.889' E 152 10.423'	46	7
Alison Beach	AB	09/22/05	S 32 47.422' E 152 6.741'	31	7
Primrose sands Tazmania	PS	11/01/05	S 42 53.742' E 147 40.168'	32	7
Eagle Hawk Neck	EN	10/31/05	S 43 00.552' E 147 55.923'	27	7
Fortescue bay	FB	11/01/05	S 43 08.553' E 147 57.842'	29	7
West A	ALA	--	35°30'53.22"S 138°42'26.35"E	28	7
West B	ALB	--	35°36'9.48"S 138°34'54.16"E	29	7
<i>Parvulastra exigua</i>					
Clovelly	CL	09/14/05	S 33 54.958' E 151 15.973'	40	5
Deewhy (freshwater beach)	DY	09/15/05	S 33 46.770' E 151 17.455'	40	5
Balmaural Beach	BM	09/17/05	S 33 49.392' E 151 15.178'	43	5
Little Bay	LB	09/18/05	--	48	5
Shell Harbor1	SH1	09/19/05	S 34 34.816' E 150 52.514'	45	5
Shell Harbor2	SH2	09/20/05	S 34 32.781' E 150 52.768'	32	5
Port Stevens	PS1	09/21/05	S 32 44.889' E 152 10.423'	29	5
Primrose Sands	PS	10/28/05	S 42 53.272' E 147 39.232'	41	5
Eaglehawk Neck	EN	11/01/05	S 43 00.461' E 147 56.222'	28	5
Tickera SA	TK	10/21/05	33°47'26.53"S 137°42'41.45"E	15	5
Port Hughes SA	PH	10/21/05	34° 4'32.12"S 137°32'45.12"E	20	5
<i>Parvulastra parvivipara</i>					
Smooth Pool	SMP	10/22/05	S 32 55.375' E 134 04.678'	36	6
Granites	TGR	10/22/05	S 32 52.806' E 134 05.014'	51	6
Point Brown	PBR	10/24/05	S 32 32.030' E 133 51.865'	50	6
Ceduna	CED	10/25/05	S 32 12.378' E 133 44.302'	20	6
<i>Parvulastra vivipara</i>					
Eaglehawk Neck	EN	10/31/05	S 43 00.540' E 147 55.965'	19	5
The Blowhole	BH	10/31/05	S 43 01.872' E 147 56.717'	28	5
Fortescue bay	FB	11/02/05	S 43 08.386' E 147 58.109'	37	5
<i>Cryptasterina hystera</i>					
One Tree Island 1	OTI1	10/01/05	S 23 30.406' E 152 05.687'	40	5
One Tree Island 2	OTI2	10/02/05	S 34 30.386' E 152 05.682'	32	5
One Tree Island 4	OTI4	10/03/05	S 23 30.514' E 152 05.621'	29	5
Two tree island 5	OTI5	10/03/05	S 23 29.224' E 152 05.244'	43	5
Statue Bay	SB	10/05/05	S 23 10.013' E 150 46.932'	20	5
Yeppoon	SY	10/06/05	S 23 09.855' E 150 46.556'	29	5
<i>Cryptasterina pentagona</i>					
Arlie Beach	AB2	10/07/05	S 20 16.117' E 148 43.205'	32	5
Bowen	BO	10/08/05	S 20 01.123' E 148 15.341'	32	5
Rowse Bay (in Townsville)	TV	10/09/05	S 19 14.410' E 146 47.972'	40	5
Bingal Bay	BB	10/11/05	S 17 50.615' E 146 06.322'	31	5
arlie beach	AB1	10/12/05	S 20 16.323' E 148 41.751'	32	5

Dingo Beach	DB	10/13/05	--	30	5
<i>Patiria miniata</i>					
View Cove Alaska	VC	06/02/05	55° 05' 01" N 133° 01' 05" W	40	7
Dunbar Inlet Alaska	DI	06/03/05	55° 04' 09" N 132° 50' 47" W	29	7
Rennel Sound QCI	QC	06/24/05	53° 24' 24" N 132° 31' 39" W	15	7
Moresby Camp QCI	QC16	06/26/05	53° 03' 07" N 132° 01' 32" W	15	7
Louise Narrows OCI	LN	05/27/06	52° 45' 55" N 131° 36' 55" W	50	7
Taanu Island OCI	TI	05/28/06	50° 31' 16" N 128° 01' 31" W	48	7
Winter Harnor Vancouver Island	WH	08/12/06	49° 08' 38" N 125° 53' 30" W	50	7
Tofino Vancouver Island	NAM	03/01/05	48° 49' 43" N 125° 08' 05" W	36	7
Bamfield	BAM	11/11/04	39° 24' 32" N 125° 08' 05" W	40	7
Fort Bragg	FB	07/21/05	38° 19' 09" N 123° 48' 22" W	20	7
Bodega Bay	BOD	11/23/04	38° 19' 09" N 123° 02' 59" W	24	7
Santa Barbara County	SB	07/06/05	34° 27' 02" N 119° 42' 05" W	33	7
<i>Meridiastra mortensoni</i>					
Karaka Bay NZ	KB	2006	41°18'15.71"S 174°49'52.49"E	45	5
Mission Bay NZ	MB	2006	36°50'57.51"S 174°49'53.54"E	18	5
Whangarei NZ	WH	2006	35°45'16.33"S 174°20'39.95"E	32	5
<i>Patiria pectinifera</i>					
Asamusi Bay Japan	AS	2007	40°53'23.30"N 140°51'41.33"E	49	4
Futagojima Japan	FU	2007	40°57'0.00"N 140°49'60.00"E	49	4
Ooura Japan	OO	2007	--	52	4