

Readme

This entry holds the genotype data associated with the manuscript:

Nikula R, Spencer HG, Waters JM (2011) Evolutionary consequences of microhabitat: population-genetic structuring in kelp- versus rock-associated chitons. *Molecular Ecology*, in review

The three data sheets in contain the AFLP-fingerprint data as follows:

DataSheet1: *Sypharochiton pelliserpentis*, 186 loci

DataSheet2: *Sypharochiton sinclairi*, 235 loci

DataSheet3: *S. pelliserpentis* and *S. sinclairi*, 297 loci, species identity of each individual determined based on a STRUCTURE-analysis of this data

The data are in the format required for the analysis package GenAIEx v. 6.4.1.

Sheet cells contain the following data:

A1= number of loci; **A2**=species; **B1**=total number of individuals; **C1**=number of populations; **D1-I1**= sample size in each population; **A2**=species name; **D2-I2**=sampling site numbers used in the publication; **A4** and downward= identification code of the individual, showing its collection locality (see abbreviations in the table below) and microhabitat (hf=holdfast of Durvillaea antarctica; rk= bare intertidal rock surface); **B4** and downward=sampling site number or species name; **C3** and rightward=locus names indicating the fluorescent dye (Green, Yellow, Red) and the approximate fragment length in base pairs; matrix starting from **C4**= presence (1) or absence (0) of the AFLP fragment in the fingerprint of an individual.

Table 1. Sample collection localities, their geographical coordinates, and sample sizes and collection dates of *Sypharochiton sinclairi* and *S. pelliserpentis* in each locality.

Site #	Locality name and abbreviation	Coordinates		<i>S. sinclairi</i>	<i>S. pelliserpentis</i>
1	Ringaringa, Stewart Island (RNG)	46°54'6.90"S; 168° 8'48.41"E	<i>N</i>	2	6
			Coll. date:	Apr-09	Apr-09
1	The Neck, Stewart Island (NCK)	46°56'31.54"S; 168°10'49.99"E	<i>N</i>	21	19
			Coll. dates:	May-08, Dec-10	May-08, Dec-10
2	Otara, Invercargill (OTA)	46°39'28.10"S; 168°50'34.15"E	<i>N</i>	26	14
			Coll. dates:	Dec-08, Dec-09	Dec-08, Dec-09
3	Kaka Point, Dunedin (KPN)	46°22'52.64"S; 169°47'14.61"E	<i>N</i>	27	21
			Coll. dates:	Feb-09, Dec-10	Feb-09, Dec-10
4	St Clair, Dunedin (STC)	45°54'51.40"S; 170°29'19.08"E	<i>N</i>	27	23
			Coll. dates:	Apr-08, Dec-10	Apr-08, Dec-10
5	Shag Point, Dunedin (SHG)	45°27'57.29"S; 170°49'38.35"E	<i>N</i>	31	19
			Coll. dates:	Nov-08, Feb-09	Nov-08, Feb-09
6	Wainui, Banks Peninsula (WAI)	43°48'51.23"S; 172°54'34.93"E	<i>N</i>	-	27
			Coll. dates:	-	Apr-08
6	Te Oka Bay, Banks Peninsula (TEO)	43°51'12.20"S; 172°47'1.42"E	<i>N</i>	24	1†
			Coll. date:	Mar-09	Mar-09