Description of the dataset archived for the article "Sexual isolation with and without ecological isolation in marine isopods *Jaera albifrons* and *J. praehirsuta*"

Ambre Ribardière, Elsa Pabion, Jérôme Coudret, Claire Daguin-Thiébaut, Céline Houbin, Stéphane Loisel, Sébastien Henry, Thomas Broquet

Contact: thomas.broquet@sb-roscoff.fr

All files are tab-delimited text files

nochoice_crosses.txt
This file contains the results of all no-choice crosses performed with individuals from the same region or different regions.
cross: label of each experimental cross
region: male and female from a unique region (Brittany or Normandy) or from different regions (Interregion).
type: intraspecific or interspecific cross
mother.origin: region of origin of the female (that is, region where the mother of this female was sampled).
mother.species: female species
father.origin: region of origin of the male
father.species: male species
mother.cross.to.death.time: time in days between the setting-up of the cross and the death of the female
success: did the cross result in offspring production?
cross.to.juv.time: time in days between the setting-up of the cross and the birth of offspring
n.juv: number of offspring produced (first brood)
survival.35days: number of offspring alive 35 days after their birth.

genotypes_parents.txt
This file contains the microsatellite genotypes of the potential parents in the multiple-choice experimental population.

genotypes_offspring.txt
This file contains the microsatellite genotypes of the offspring produced in the multiple-choice experimental population.

male_phenotypes.txt
This file contains the phenotypic variables and the mating success of the males (potential parents) used in the multiple-choice experiment.
size: in mm
M: number of mating partners identified after genetic parentage analyses
Ma: number of Jaera albifrons female mating partners
Mp: number of Jaera praehirsuta female mating partners
species: male species
All other columns correspond to male secondary sexual traits as described in the article.

male_reprod_success.txt
Contains details of the mating success of males in the multiple-choice experiment.

brood1juvtot: total number of offspring sired by a given male (possibly with several females), considering only the first brood of each mating partner.
nb_partners: number of mating partners
ID_partner1: label of female mating partner
species_partner1: species of female mating partner
length_partner1: length (in mm) of female mating partner
nb_juvpartner1: number of offspring sired by the male with this particular female.
A male could have had up to 4 mating partners in this experiment.

female_reprod_success.txt
Contains details of the reproductive success of females in the multiple-choice experiment
ID, species, and length: label, species and length (in mm) of the female.
nb_juvtot: number of offspring produced by each female (possibly over two successive broods).
nb_broods: number of broods analysed for each female (0, 1, or 2).
brood1: number of offspring in first brood
b1assigned: number of offspring that could be genotyped and assigned to their parents (genetic identification of their father)
nb_partners: number of male mating partners
ID_partner1: identity of male mating partner 1
nb_juvpartner1: number of offspring produced with male partner 1.

pairs.txt
This file contains a list of all reproductive pairs identified in the multiple-choice experiment
f_ID: identity of the female in a particular pair of parents
f_species: species of the female
f_length: length (in mm) of the female
m_ID, m_species, m_length: idem for the male of each pair
nb_juvbrood1: number of offspring produced by this particular pair (first brood only).
nb_juvfemale and nb_juvmale: within nb_juvbrood1, number of female and male offspring