Table S2. Principal component analysis (PCA) on meteorological data and fertility level of Bi90 *D. melanogaster* strain.

Variable	Principal component loadings					
	PC1	PC2	PC3	PC4	PC5	PC6
Temperature	**+0.926**	+0.204	-0.204	-0.043	+0.123	+0.207
Humidity	**+0.657**	-0.153	+0.459	+0.531	-0.227	+0.013
Wind speed	**-0.763**	+0.245	+0.316	+0.391	+0.318	+0.061
Air Pressure	**-0.911**	-0.235	+0.065	-0.109	-0.263	+0.172
Air Pressure change	+0.247	**-0.761**	+0.488	-0.289	+0.192	+0.016
Fertility (log)	+0.107	**+0.683**	+0.617	-0.369	-0.078	-0.004
	PC1	PC2	PC3	PC4	PC5	PC6
PC Eigenvalue	2.775	1.226	0.974	0.669	0.280	0.077
Proportion of variance	0.462	0.204	0.162	0.111	0.047	0.013
Cumulative variance	0.462	0.667	0.829	0.941	0.987	1.000

* - supplementary variables were not used in PCA to determine PCs