



Figure A5. Relationship of *Zugunruhe* metrics during a bird's first year to those of later years (see Figure A4), but standardized to respective population means. After accounting for variation explained by population means, formerly strong relationships (see Figure A4) became non-significant. Here, only three comparisons show significant relationships (not corrected for multiple comparisons): spring corrected peak ( $P = 0.028$ ), spring overall mean ( $P = 0.003$ ), and fall overall mean ( $P = 0.049$ ). Data plotted as in Figure A4.