**Table 1.** Key behavioral elements of *Masius* displays in this study.

Letter Index | Name | Description | Num SOLO | Num AUDI | Num COP

Duration | Num Elements | Num Unique Elements

**Figure 1.** Repertoire complexity of *Masius* displays.

Scaled Entropy | Compression Ratio | Correlation with numbers

**Figure 2.** Syntax complexity of *Masius* displays.

**Figure 3.** Context *vs.* individual variation in *Masius* displays.

SOLO: Same individual, D

Repeated C

**Table S1.** Full behavioral definitions.

**Table S2**. Male individual display patterns.

**Table S3.** Female individual attendance patterns.