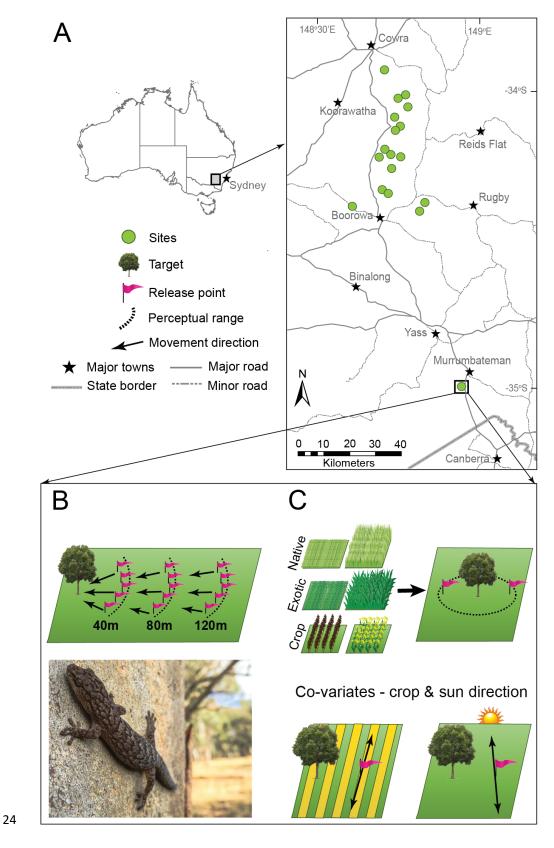
## FIGURE CAPTIONS

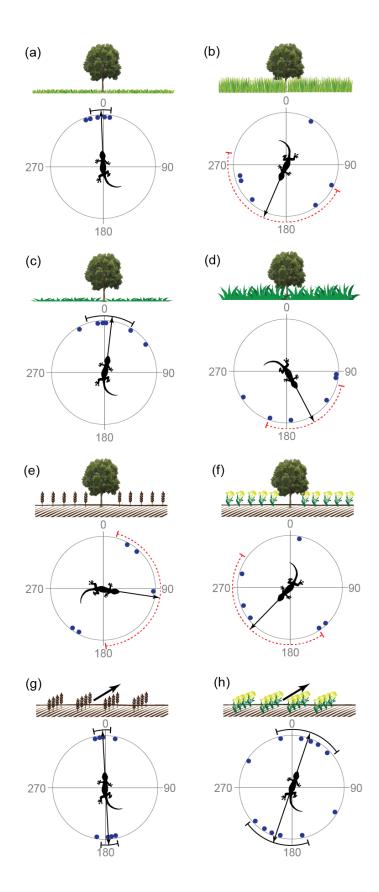
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- 2 Fig. 1: Study area and experimental design of the movement study. (A) Location of sites.
- 3 (B) Design used to identify the perceptual range for *C. marmoratus* (pictured). (C) Design
- 4 used to identify influence of type and structure of the 6 matrix treatments (short native,
- long native, short exotic, long exotic, wheat crop, canola crop) on movement when released
- 6 within their perceptual range (Question 1) and to test co-variate cues (crop-sowing and sun
- 7 direction) influencing *C. marmoratus* movement (Question 2).
- 8 Fig. 2: Movement directions for *C. marmoratus* released into matrix treatments within
- 9 **perceived range of the target tree.** Angular orientations by matrix type and structure (a-f)
- and axial (bi-directional) orientations relative to covariate crop sowing direction (g-h),
- where: (a) short native, (b) long native, (c) short exotic, (d) long exotic pastures, (e, g) wheat
- and (f, h) canola crops. Blue points around the circle represents the mean direction of an
- individual path relative to the release point (center cross-hairs); the zero represents the tree
- direction, the line represents the mean vector of each group of individuals and the circular
- arc represents the 95% confidence interval limits of significant (black solid) or insignificant
- (red dotted) orientations. *Christinus marmoratus* oriented towards the tree in short pasture
- of either type as well as along crop plantation rows, but did not in long pasture or any crop
- 18 type.
- 19 Fig. 3: A representative example of the tracks observed within different matrix
- 20 **environments.** (a) Short native pasture, (b) long native pasture, (c) short exotic pasture, (d)
- 21 long exotic pasture, (e) wheat, and (f) canola crop.

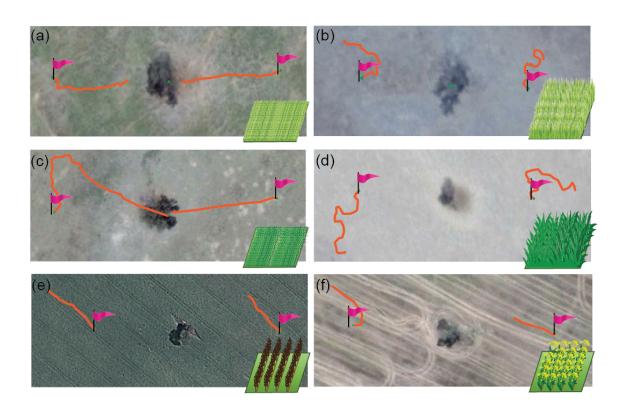
## **FIGURES**



25 Fig. 1.



27 Fig. 2.



29 Fig. 3.