MOVEMENTS OF HARVEST MOUSE IN GRASSLANDS UNDER DIFFERENT DISTURBANCES ON VEGETATION STRUCTURE

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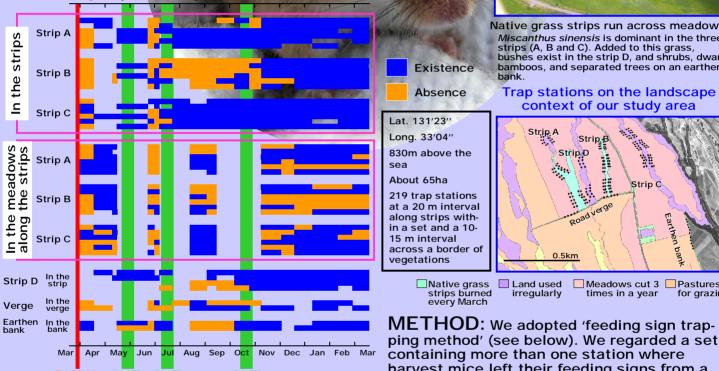
How do harvest mice deal with disturbances?

And where are they in winter?

RESULT:

Existence and absence of harvest mice

Mar Apr May Jun Jul Aug



to move into the contiguous meadows by degree. In summer when the grass built a canopy in the strips,

harvest mice left their feeding signs from a **BURN- CUT- CUT-CUT**session until its next one as their existence ING **TING TING** at the set at the period. The traps were Harvest mice left the strips after burning, and seemed checked and reset almost every 20 days.

harvest mice existed in strip A and did not in strip B, despite of their entirely same disturbance and vegetation as far as we identify.

DISCUSSION: In grasslands that are composed of several vegetations under various disturbances such as our study area, a) harvest mice are likely to deal with disturbances by moving from grasslands without to ones with canopies, and b) they winter in withered grasses in strips. Adaptation to grasslands would help this species to respond well to artificial disturbances and to winter there.

What's the feeding sign trapping?

You are able to detect existence of harvest mice without grueling live trapping by means of setting sunflower seeds in containers and searching their feeding signs several days after setting. Their feeding signs are distinguished from those of larger rodent species by the shape of shells left behind.

The number of stations where harvest mice left their feeding signs / the number of available trap stations ratio shows significant positive relation to the captive rate at the stations where they left their feeding

imber of stations sited / number of vailable stations 0.5 $R^2 = 0.8834$ 0.2 0.4 Captive rate at stations visited

Native grass strips run across meadows.

Miscanthus sinensis is dominant in the three strips (A, B and C). Added to this grass, bushes exist in the strip D, and shrubs, dwarf

bamboos, and separated trees on an earthen

Trap stations on the landscape context of our study area

Meadows cut 3 Pastures times in a year for grazir

Strip D

0.5km

(Ishiwaka et al., in preparation)