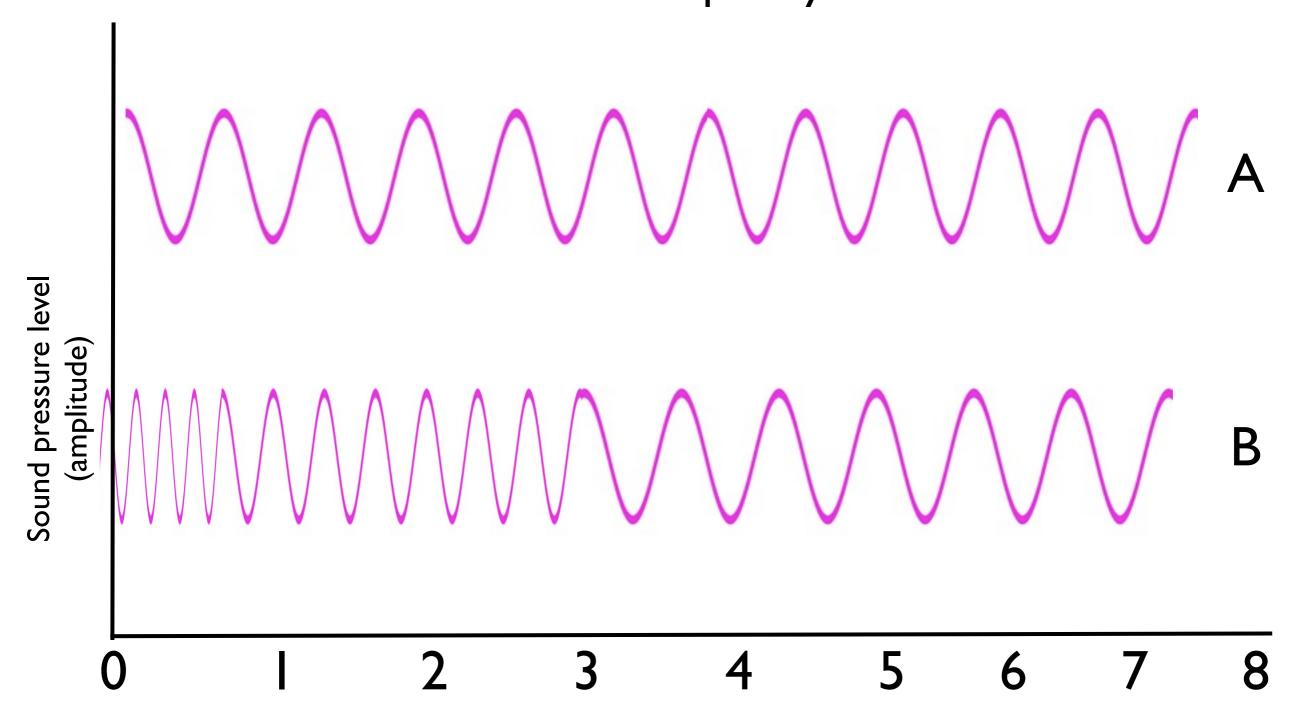
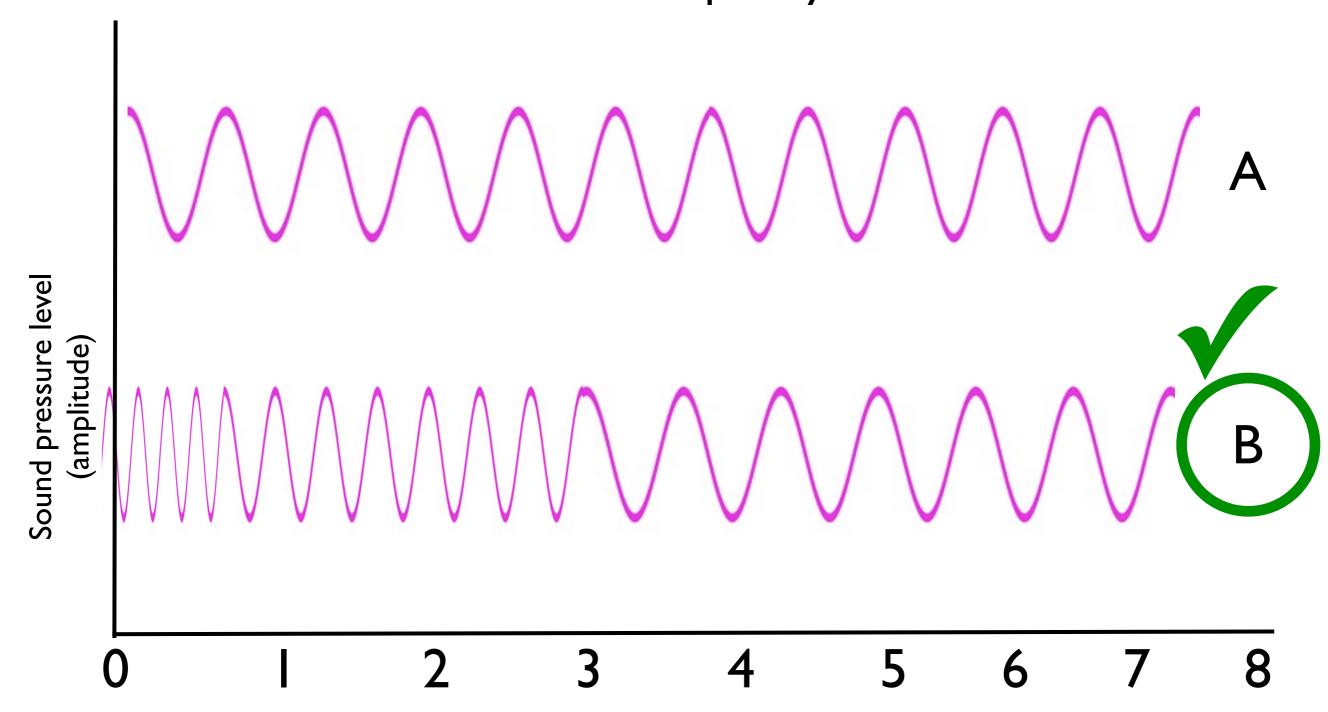


Which one is Frequency Modulated?

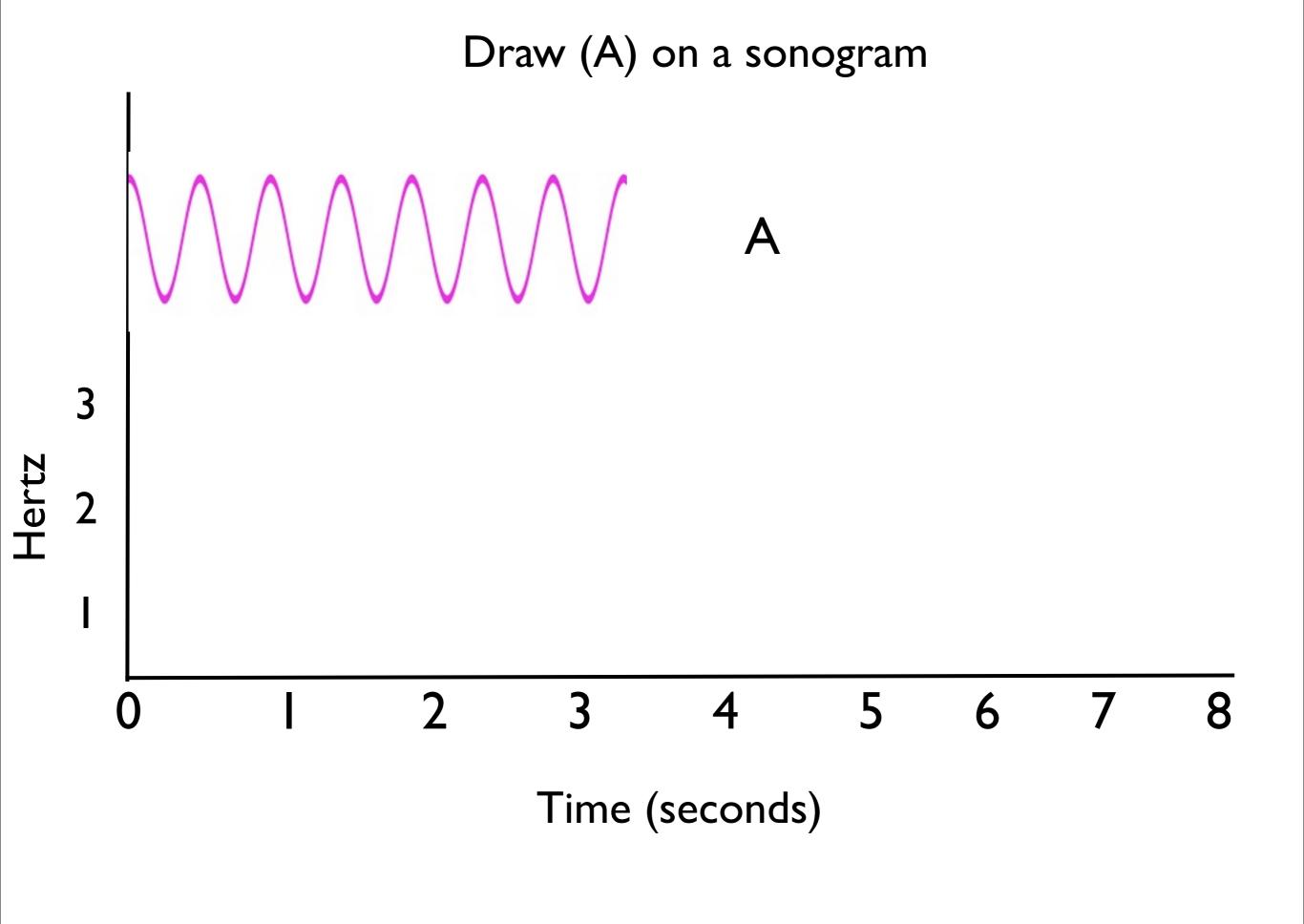


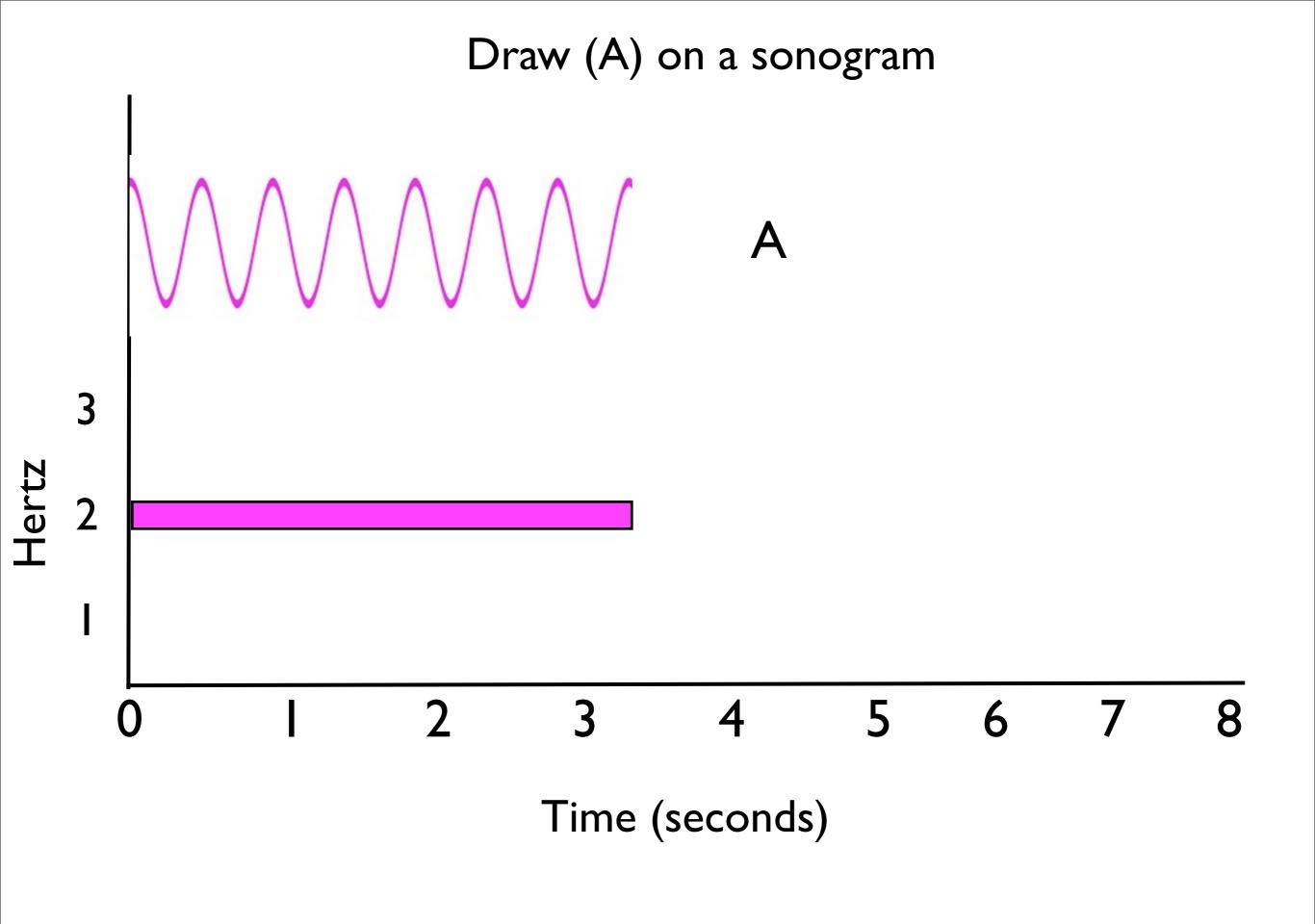
Time (seconds)

Which one is Frequency Modulated?



Time (seconds)





If a bat detector has a

SAMPLE RATE = 220 kHz

what is the

RECORDING BANDWIDTH?

Would you buy this detector for colleagues in Cuba or Anguilla?

If a bat detector has a SAMPLE RATE = 220 kHz

what is the

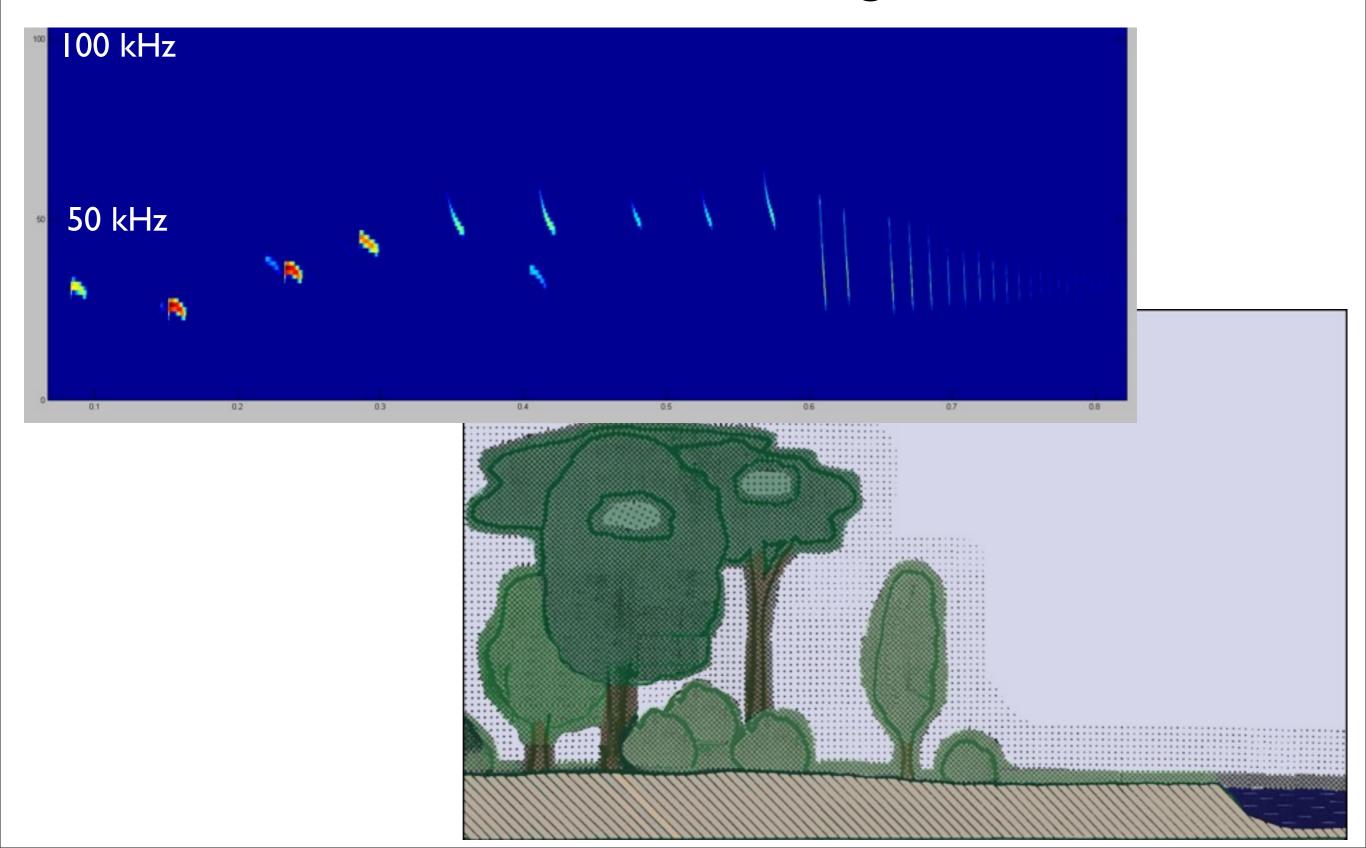
RECORDING BANDWIDTH?

IIO kHz

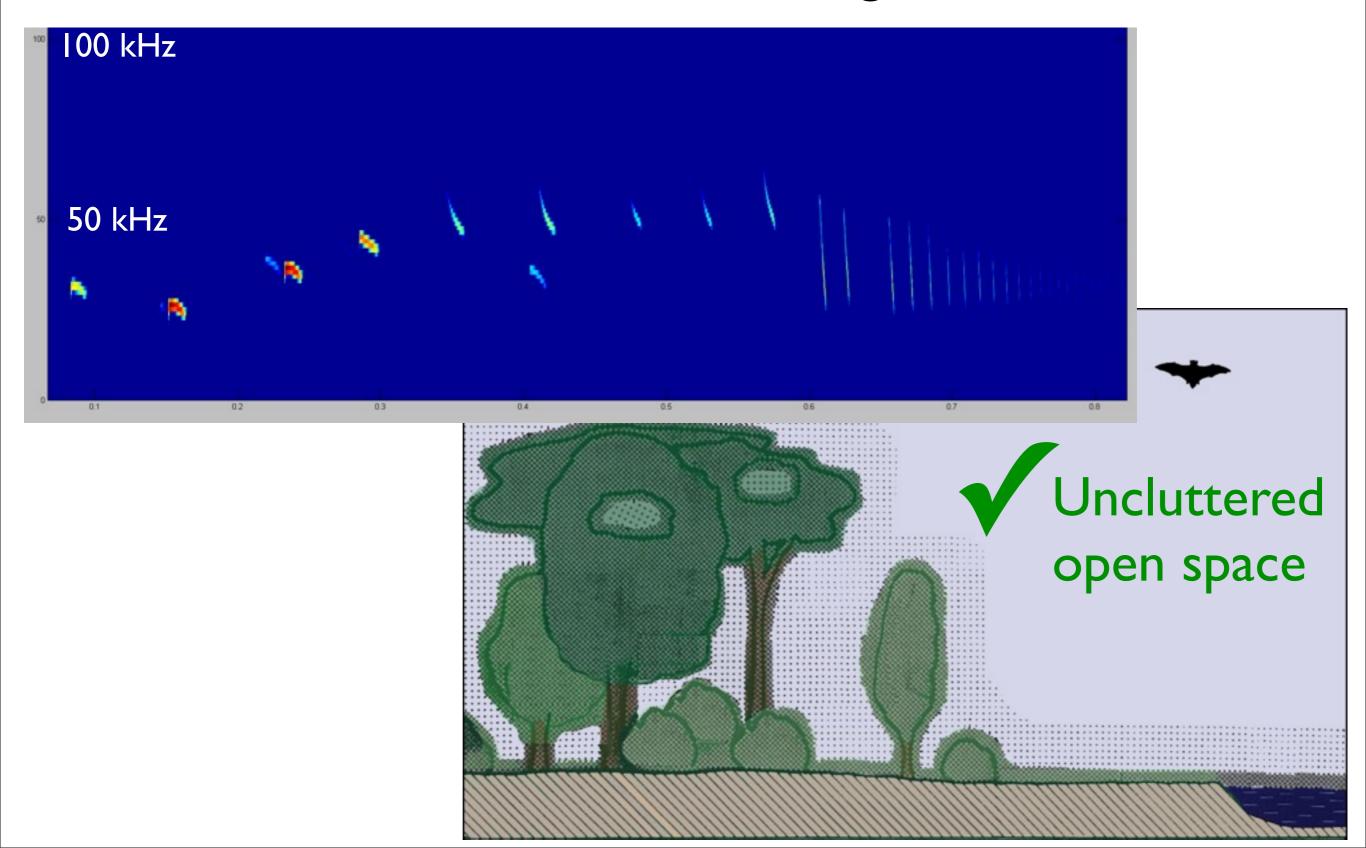
Would you buy this detector for colleagues in Cuba or Anguilla?

NO - frequency is too low

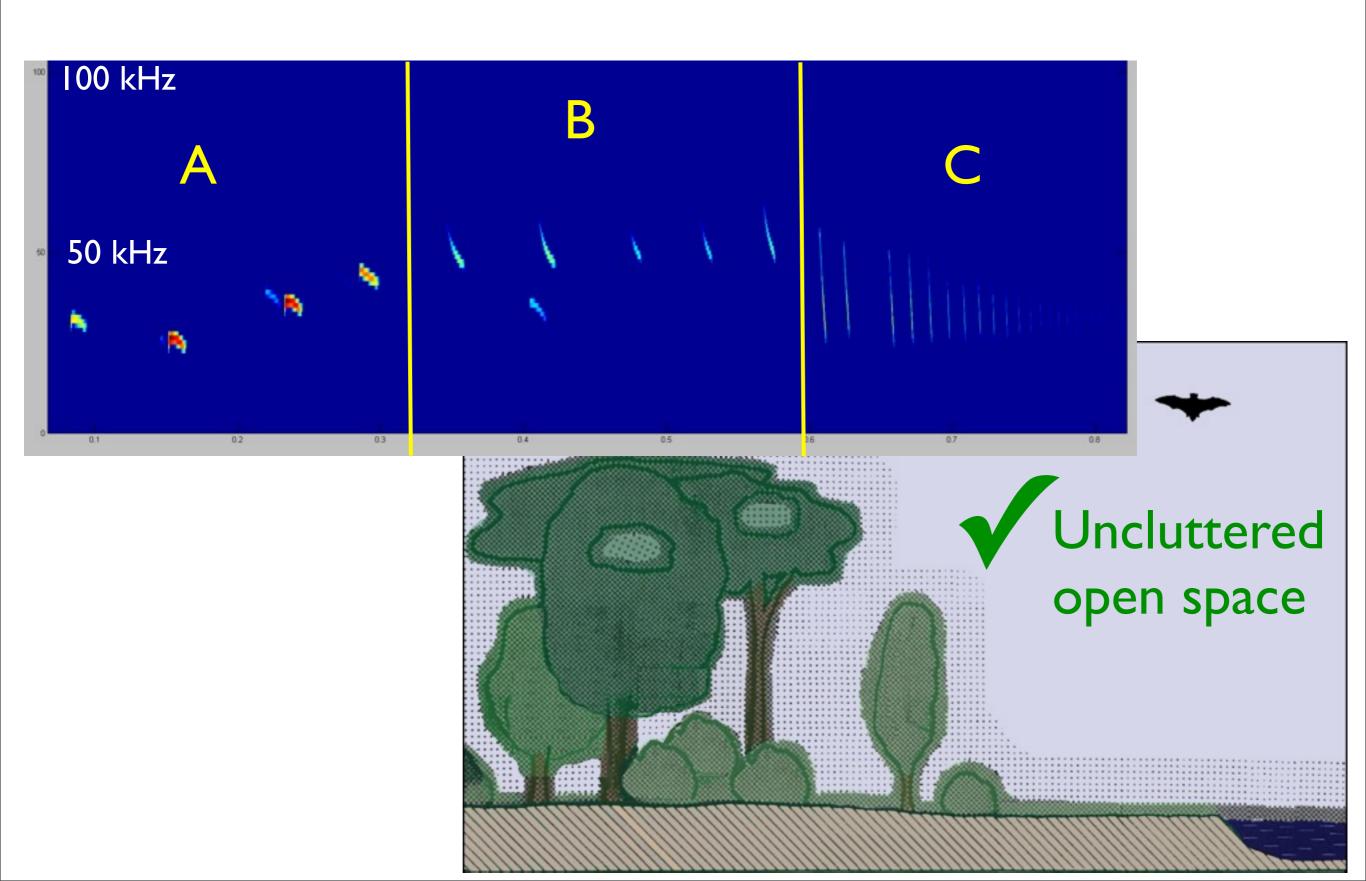
In what "sound-scape" would you expect to see a bat with this acoustic signal?



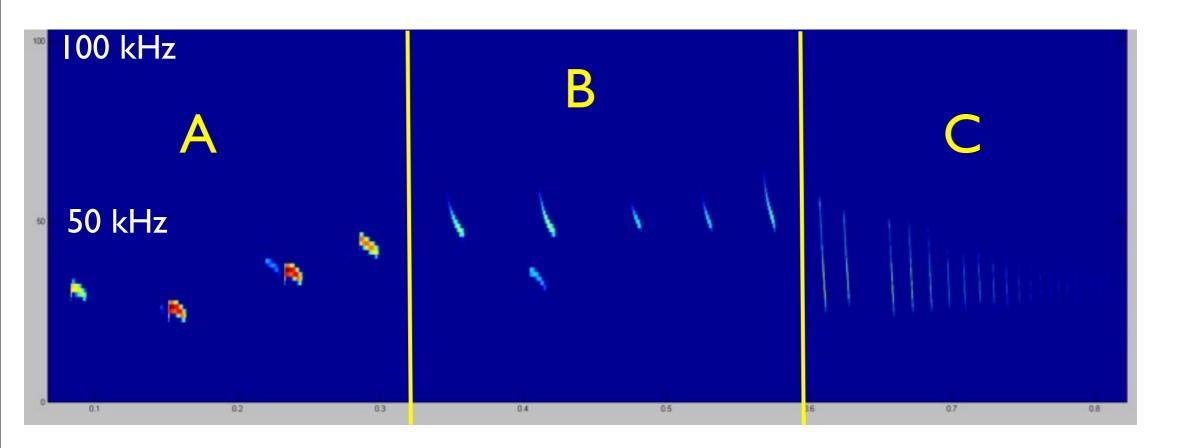
In what "sound-scape" would you expect to see a bat with this acoustic signal?



What is happening in Phase (A); Phase (B) & Phase (C)



What is happening in Phase (A); Phase (B) & Phase (C)



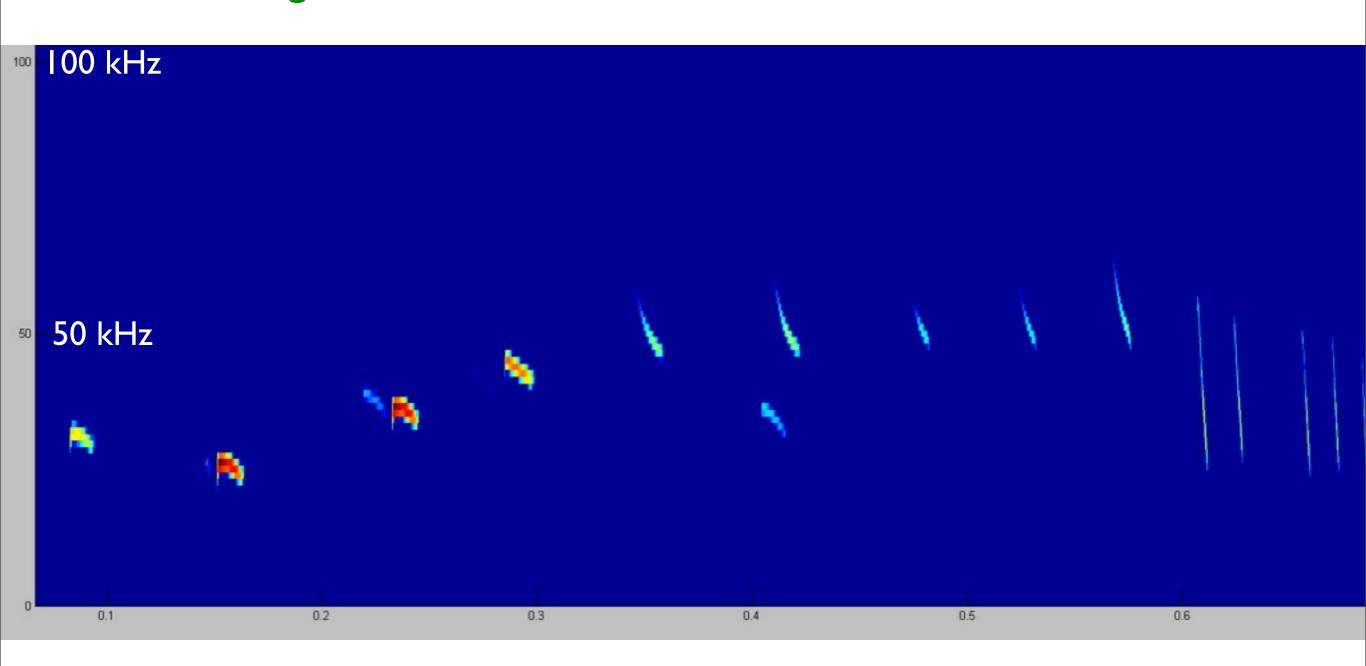
- A = General flight / search phase
- B = Object detected
- C = Object confirmed as suitable prey & attempt to capture (hunting buzz)

Which bat species is this?

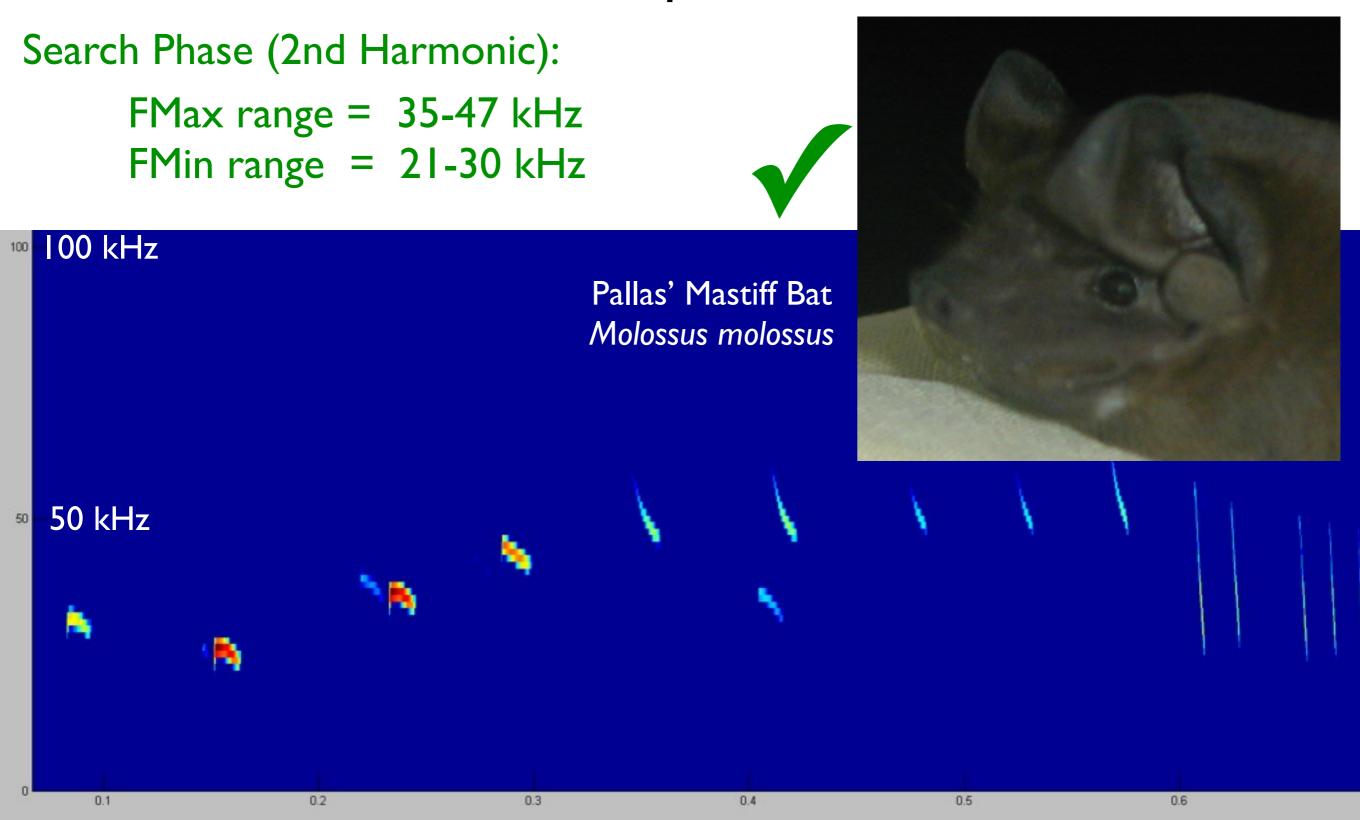
Search Phase (2nd Harmonic):

FMax range = 35-47 kHz

FMin range = 21-30 kHz



Which bat species is this?



BONUS: Predict the foraging niche from the face

Nectarivore Frugivore Insectivore Piscivore



BONUS: Predict the foraging niche from the face

Frugivore Insectivore Piscivore



BONUS: Predict the foraging niche from the face

Insectivore Piscivore



BONUS: Predict the foraging niche from the face Piscivore



BONUS: Predict the foraging niche from the face CONGRATULATIONS!

