

## SOUND EXPERIENCE

### PROTOCOL

Place the affraying object (eagle) at 30??? meters of the burrow (always at the same distance to standardize), place the mic and the sound recorder,  
Start both of them, register the day, the hour and the family you are working with,  
Place the camera(s) (whenever possible place the camera on the path),  
Film with one camera, try to have a full view of the territory,  
When the film starts, tell the day, the hour and the family you are working with,  
Identify all individuals of the family (sex and age),  
Start to film the focus marmot with the other camera,  
When the film starts, tell the day, the hour and the family and the identity of the focus marmot you are working with,  
Wait that a focused marmot will be in between the main burrow and the eagle,  
Identify the focused marmot (at least age and sex),  
Fill up the worksheet,  
Active the remote control system,  
Film during five minutes after activation of the eagle,  
Get back to the mic, tell the identity of the focus focused,  
Remove the experimental devices,  
Check that the worksheet had been correctly filled up.

### MATERIAL

- worksheet and pen
- tape measure
- sound material
- 2 (or 1) cameras for experiment
  - one focused on the main marmot (eagle should be seen)
  - one to film the whole territory
- eagle and remote control system

### INSTRUCTIONS TO FILL THE WORKSHEET

Day

Family group

Observers:

Eagle installation: at which time we have placed the eagle

Eagle activation: at which time we have activated the eagle to affray the marmots

Film code(s): it will be date+family e.g. YYYYMMDD\_family name

Sound code: it will be date+family e.g. YYYYMMDD\_family name

Pups (Y/N): if pups have emerged (Y) and if not (N)

Family composition: while we wait for the activation of the eagle we should count the number of the individuals of the group, their age and sex

Focus marmot: identification of the focus marmot (if it is possible with their id) and at least their age and sex.

Sex:

- Male (when they have a left earring)

- Female (when they have a right earring)

Age:

- Pups (0 years)
- Yearlings (1 year)
- Subordinate (2 years and up NO dominant)
- Dominant (up 2 years)

Action:

- Call
- Escape: marmot runs but it doesn't enter at the burrow
- Hide: marmot enters at the burrow

Draw a picture: after the experience a scene of the burrows and marmots will be done.

Other observations