

INTERVIEW QUESTIONS & PHOTOS

A. Name? **B.** Age? **C.** How long did you live here? (Why moved?) **D.** Education? **E.** How many children? **F.** How many cows? horses? sheep? goats? **G.** In which veg. zone do you 1) live? 2) graze your cattle? sheep? goats? **H.** proportion of income from cows? bulls? sheep? goats? horses? agriculture? forest products? other? **I.** How did this area look like when you were a child compared to now? **J.** What is the largest differences in your life between today and when you were a child? **K.** Is there a difference in landuse/land cover - past to present? What? Why? **L.** How has the number of families/number of children per family changed over time? **M.** What is the relation between people and forest - over time, in how it is used and protected? **N.** How has the proportional area cover of grass–trees/grass–herbs changed over time? **O.** How can pasture be improved? **P.** What are the reasons for burning? Please rank them. **Q.** Fire management technique? How? Has it changed over time? How? Why?

Photo question: Follow-up question (depending on answer):

(Number 1-6 are lower zone forest-related questions and will be presented elsewhere)

7. What is this? (*Erica forest*) Economic value? Good pasture? Why? How old are the trees? Have you seen fire in this kind of forest? Can it burn? Under which conditions?
8. What is this? (*Erica fence*) Why do people fence grazing land? Since when did this start? Why? Good? Legal? Sustainable? What is needed to protect this forest?
9. What is this? (*heathland 1 year*) Value? Good pasture? Why? How old is it? Can it burn? Could young stands burn long time ago?
10. What is this? (*heathland 5 yr*) Good pasture? Why? How old? Which is the youngest age when it is possible to burn? Under which conditions can it burn? Is it legal to burn heath? Why?
11. What is this? (*Erica old*) Good pasture? Why? How old? How to improve pasture? With how many years interval should the *ericca* burn to get best grazing? Have fire intervals decreased lately? Why? What should be done to improve heathland management?
12. What is this? (*overgrazed heathland*) good pasture? Why? Can *Erica* die by overgrazing? Good or bad? Which animals overgraze *Erica*? What should be done about this? Are there more cattle, or other livestock, here now than 10, 30 years ago? How many cattle per hectare (show 1 ha) can be sustainably grazed in the heathland without degrading pasture?
13. What is this? (*burnt lignotuber*) What happens when soil burns? When is there risk of soil fire? Was this common earlier? Can *Erica* die by soil fire? Good or bad? How avoid killing *Erica*?
14. What is this? (*fuel break*) What would happen if people stopped igniting in the heathland? This is the same land 2 years apart, the lower area burnt 2 years after the upper area, and the fire stopped at the then 2 year old vegetation. Why? If people did not burn, would there be any fuel breaks in the landscape? Would there be more large fires then? Or would the *Erica* grow into tall forest? How many years to become forest? Did you hear about the big Mount Kaka fire in 2012? Why did it burn so large area? Could this happen in Bale? Why? (*people trying to stop fire*) Why? Is this dangerous? How can burning be planned and executed so that it is not dangerous? Did you hear of someone killed by *Erica* fire? Why?
15. What is this? (*Big fire on Sanetti 2008*) Is it good or bad fire? Is it dangerous? What does the colour of the smoke tell you? Can heathland fire ignite forest below? Why?
16. What is this? If the REDD+ projects plans to introduce Joint Forest and Pasture Management, what are your recommendations for how the rules should best be designed for sustainable use of the forests and the heathlands?
17. What is this? (“*bokata*”) where is it found? *E. arborea*/*E. trimera*? stand age? when? adult when? How does the adult look like? Is it a butterfly? Where does it pupate?

R. Relations between government and people? park/agr. bureau/REDD+ and people? Change over time? How should they best work with the people? **S.** What is REDD+? What is carbon storage? When did REDD+ start? Did you experience any changed rules since the REDD+ started? How do these rules affect your livelihood? How much carbon money do you expect for saving trees? per tree?, per ha? Will this compensate for potential loss of pasture? Did we forget to ask any question which is important for your livelihood here?

Galatoma!

Appendix 2 – Interview questions to: *Change in heathland fire sizes inside vs. outside the Bale Mountains National Park, Ethiopia, over 50 years of fire-exclusion policy: Lessons for REDD+*



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