Field markings of Altai mountain ungulates

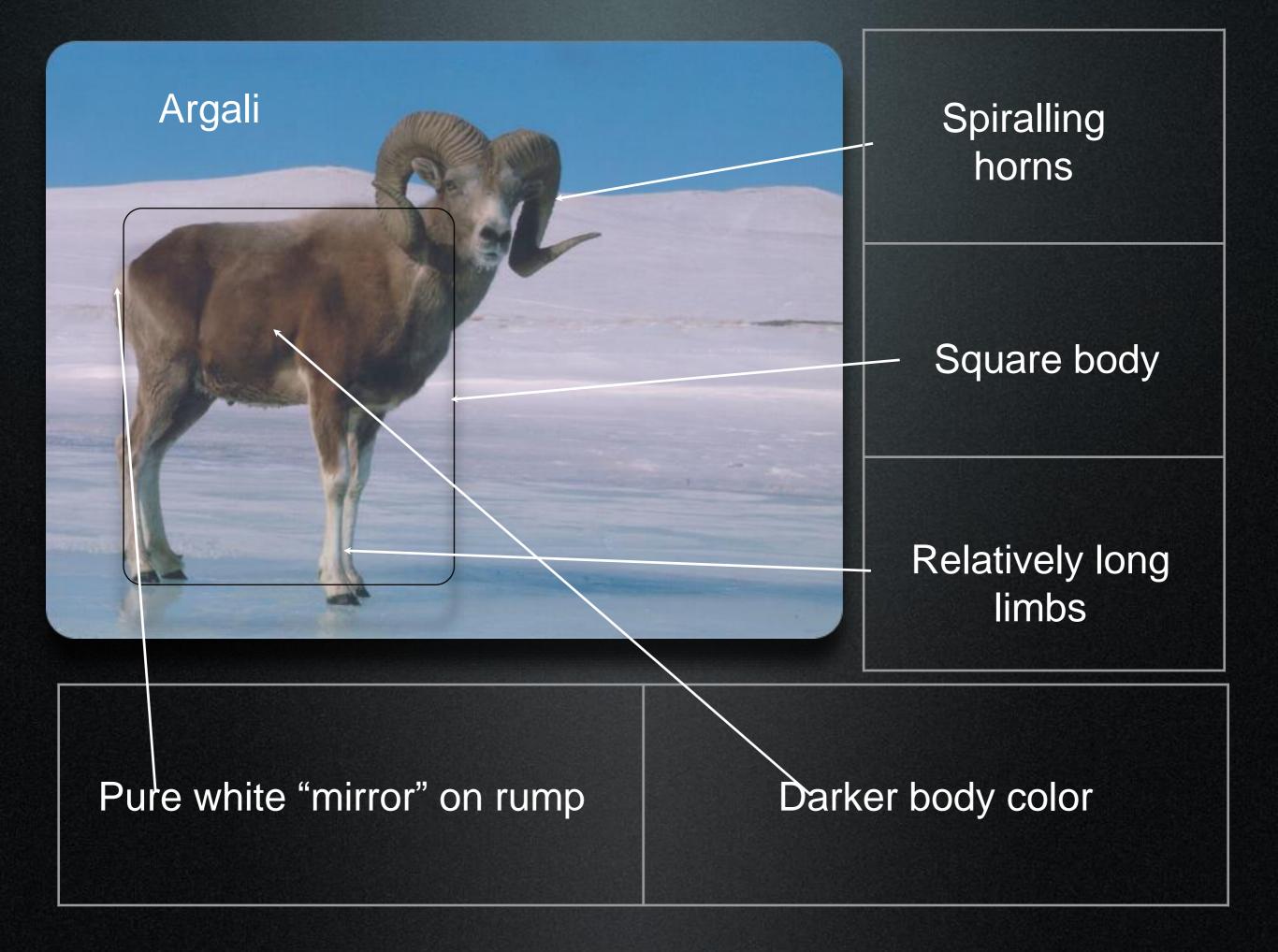
For volunteers participating in transboundary Argali sheep population surveys on Sailyugem Ridge

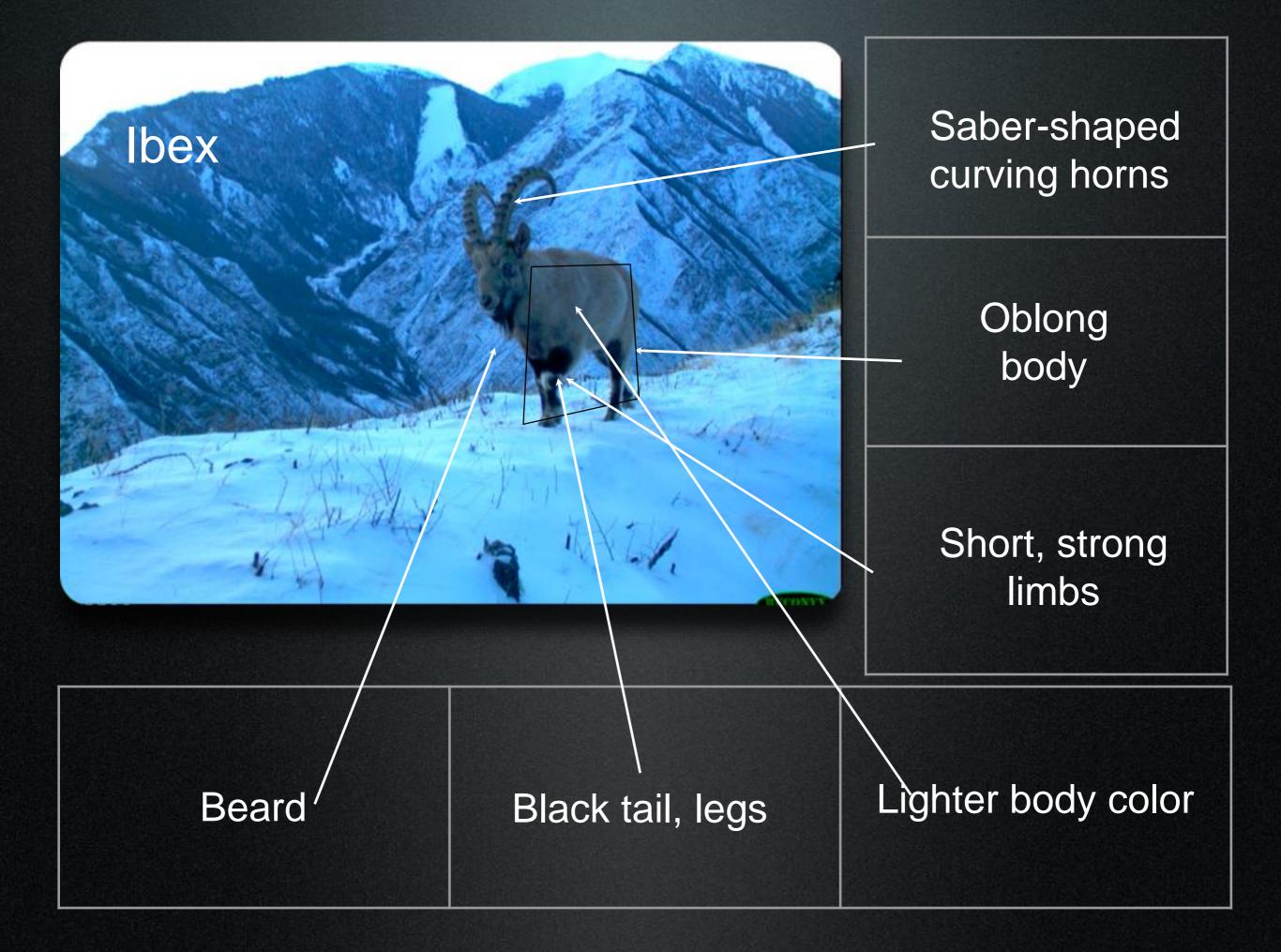
Survey Tasks

- Species identification of encountered ungulate groupings
- Identification of animals by sex and age
- Complete & accurate documentation of observations



Differences between males of both species are clear and noticeable even at great distance







Differences between females are more subtle, especially when viewed at a distance

	<image/>		Argali Joint Argali Joint Joint
Square body	Darker	coat	hite "mirror" Ind tail











<text></text>	<complex-block></complex-block>		
Black tail on a white mirror is noticeable from a distance	Adult animals have beards		
Oblong body	Lighter color		
Horns are closer together	Less horn curvature		

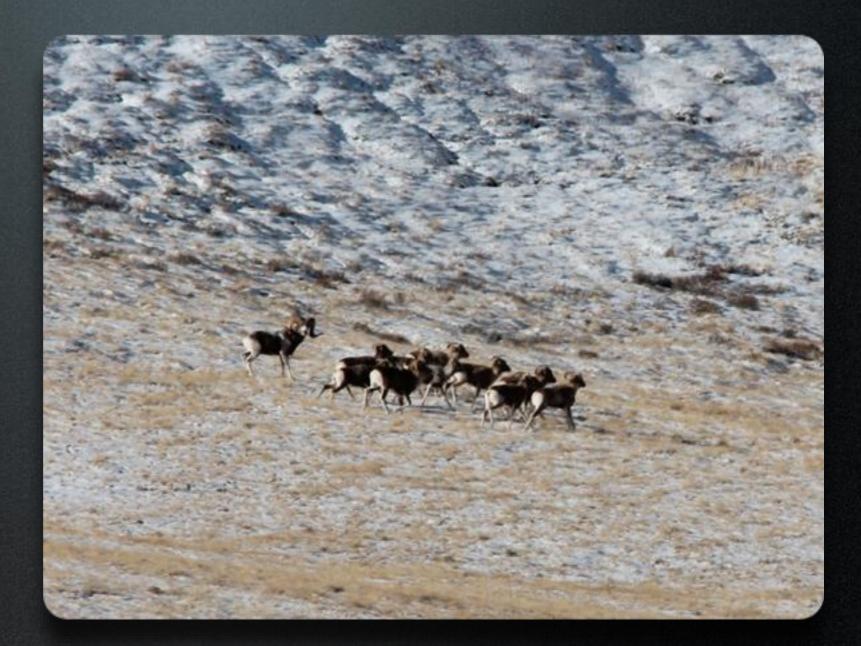


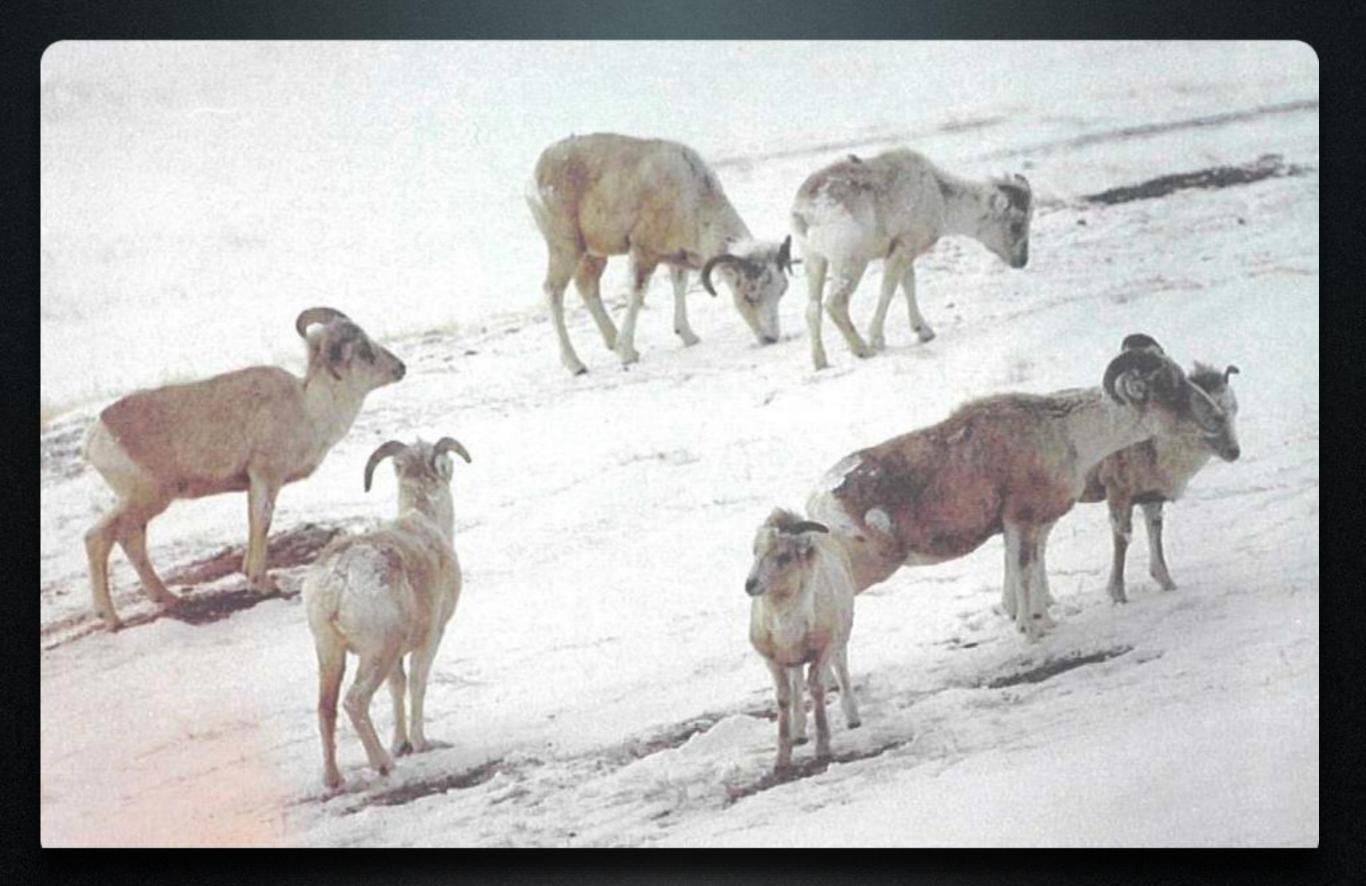




Age & Sex Differences in Argali

Older males are 1.5 times larger than females and have very large horns





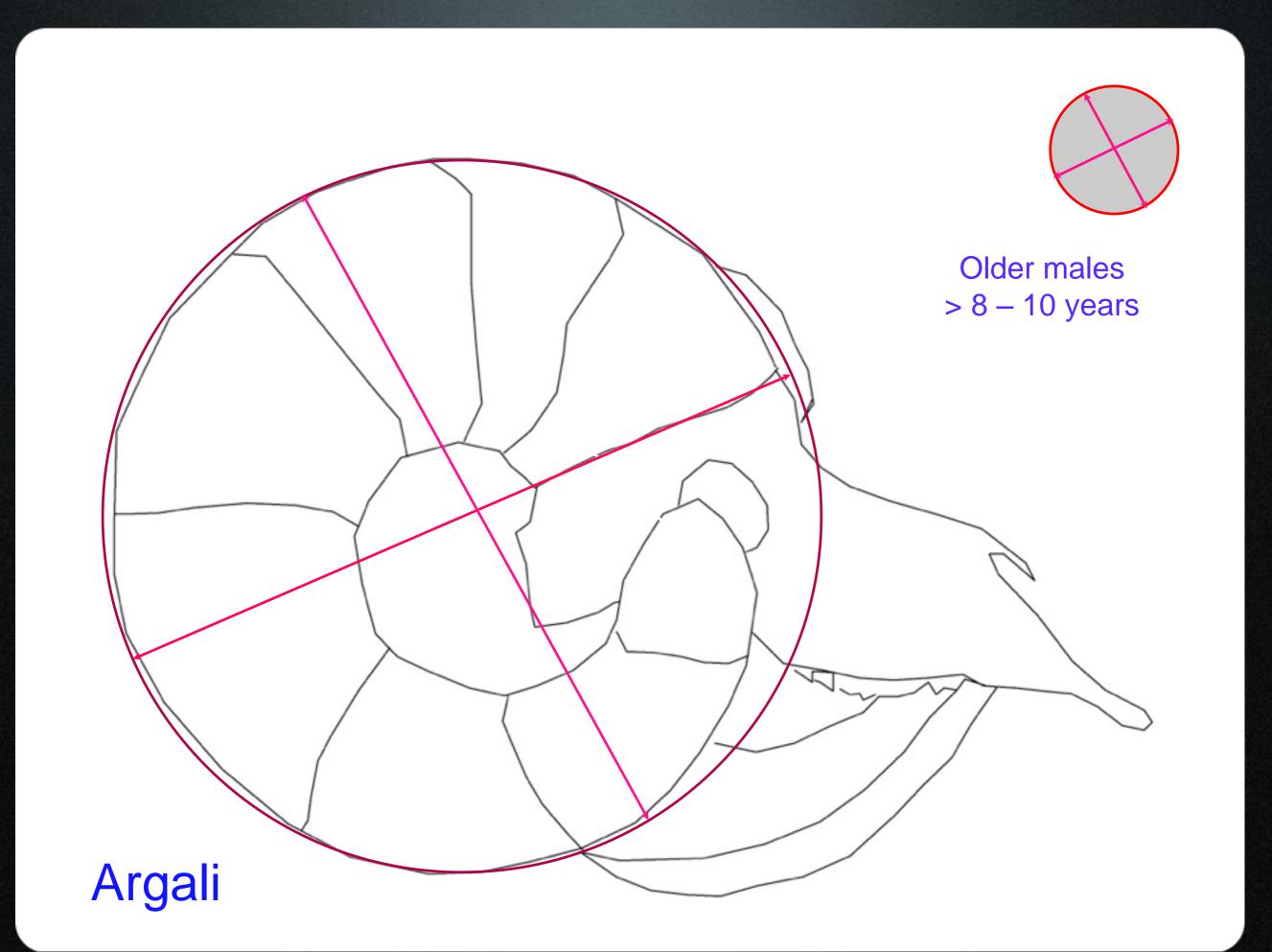
Females are 1.5-2 times larger than yearlings



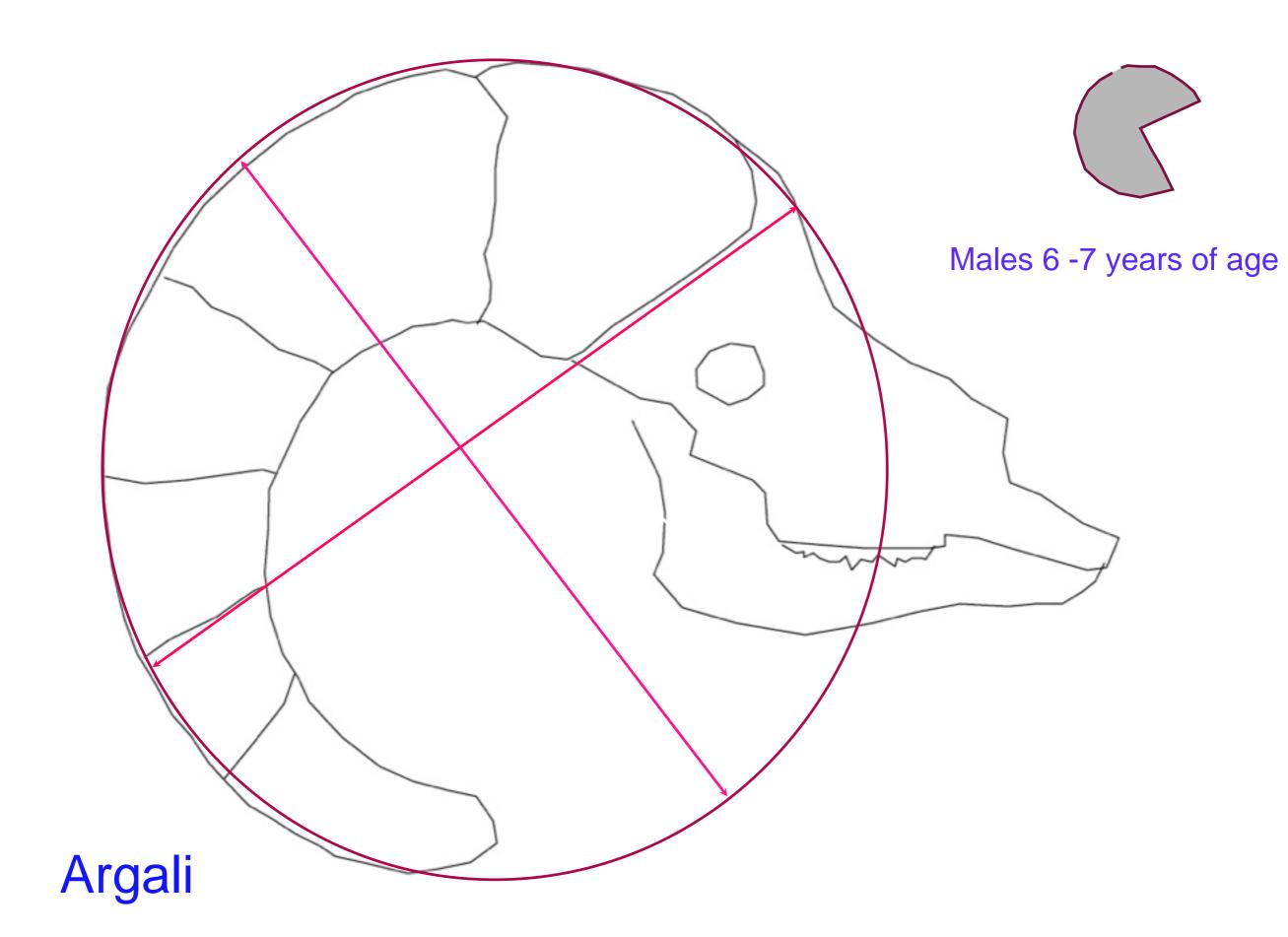
In July, lambs are 2-3 times smaller than adult females and have a darker coat

Determining the age of male argali using horn size in field conditions



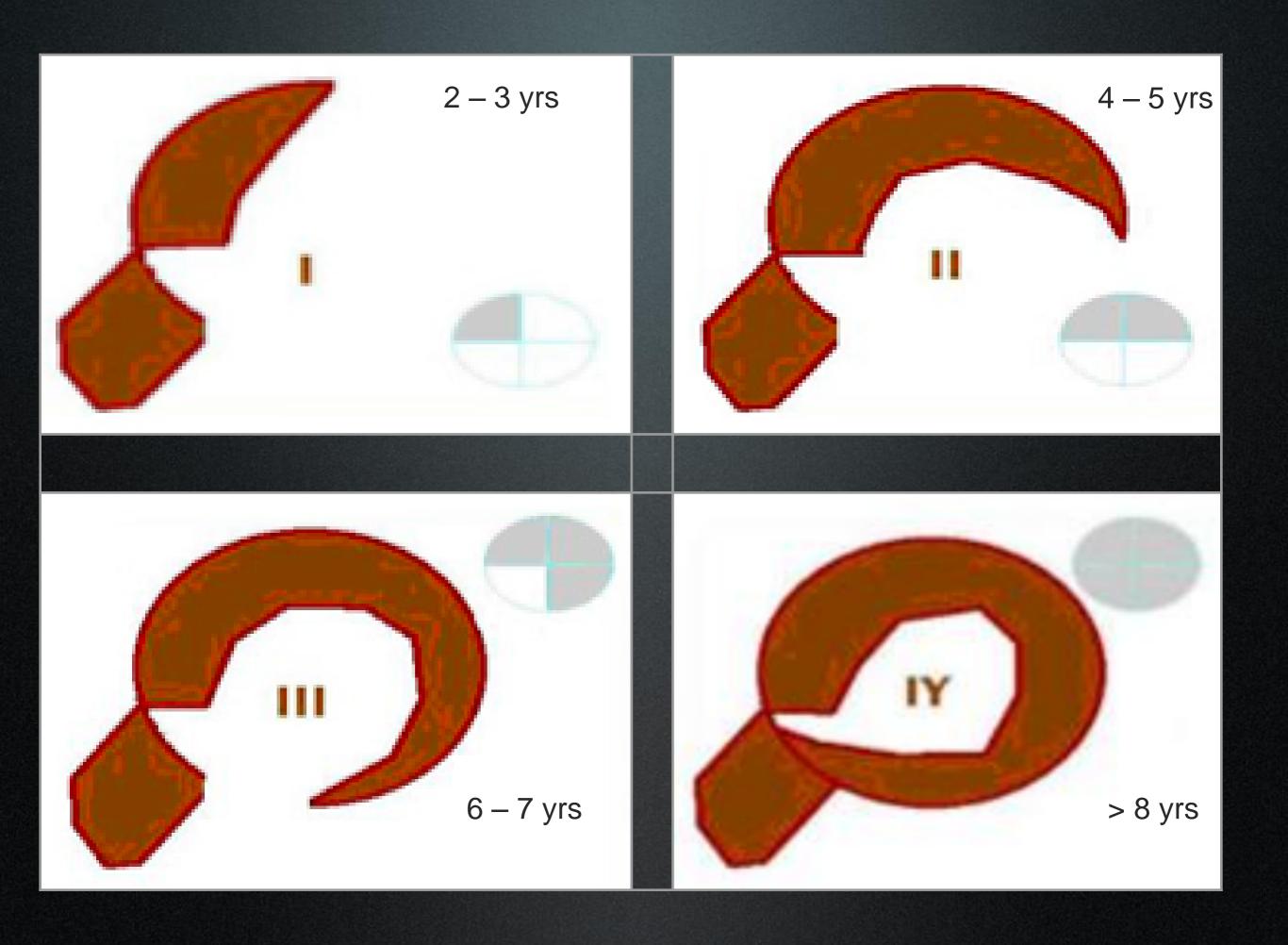


Older males are very large and have powerful horns with more than one complete turn, dark body, and a "saddle" marking on the spine





6-7 year old males have horns with a ³/₄ turn. These are large males that participate actively during rut.





While moving along a route, try not to spook animals. Your goal is to see the argali before they see you.



Stop often and thoroughly study the surrounding areas.



Whenever feasible, always try to photograph any animals encountered. Use a zoom lens or a spotting scope with a camera attachment.



Time-permitting, use a tripod for photography. Reviewing images back at camp will make it possible to analyze the age-sex composition of each group.



Always record your observations of animal groupings right away – don't wait until later.

Important information that each observation team should record

- Date and time of sighting, time interval, name of observer
- Species observed
- Number of animals observed in a herd, also broken down by age-sex
- Note and describe animals with distinguishing marks (easily recognized), if any are observed in the herd
- GPS coordinates of observation location, angle on target, and approximate distance to it. Note the sighting location on the map.
- Provide a brief description of observed animals' activities (laying on the ground, grazing, on the move, etc.)
- Note the direction that the grouping was headed if moving or running away.
- Note the availability of a photograph or video of the animals

Happy "hunting"! Greetings from our 2011 volunteers, the first international survey team!