a) additions **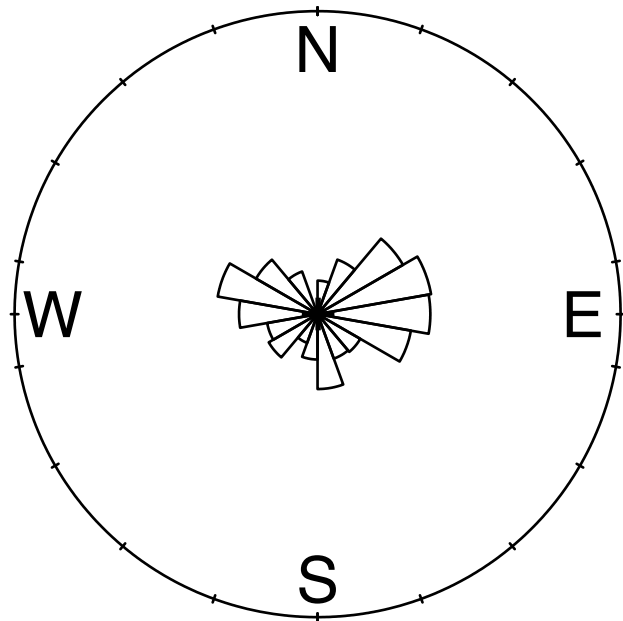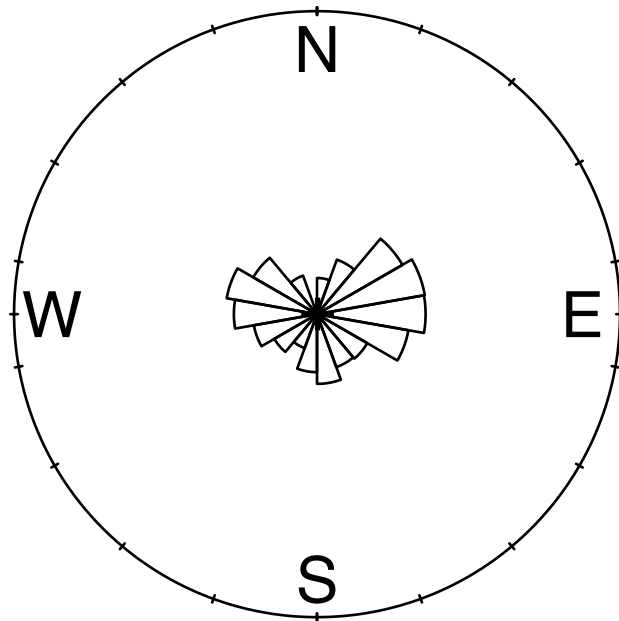b) extirpations** **c) no change**