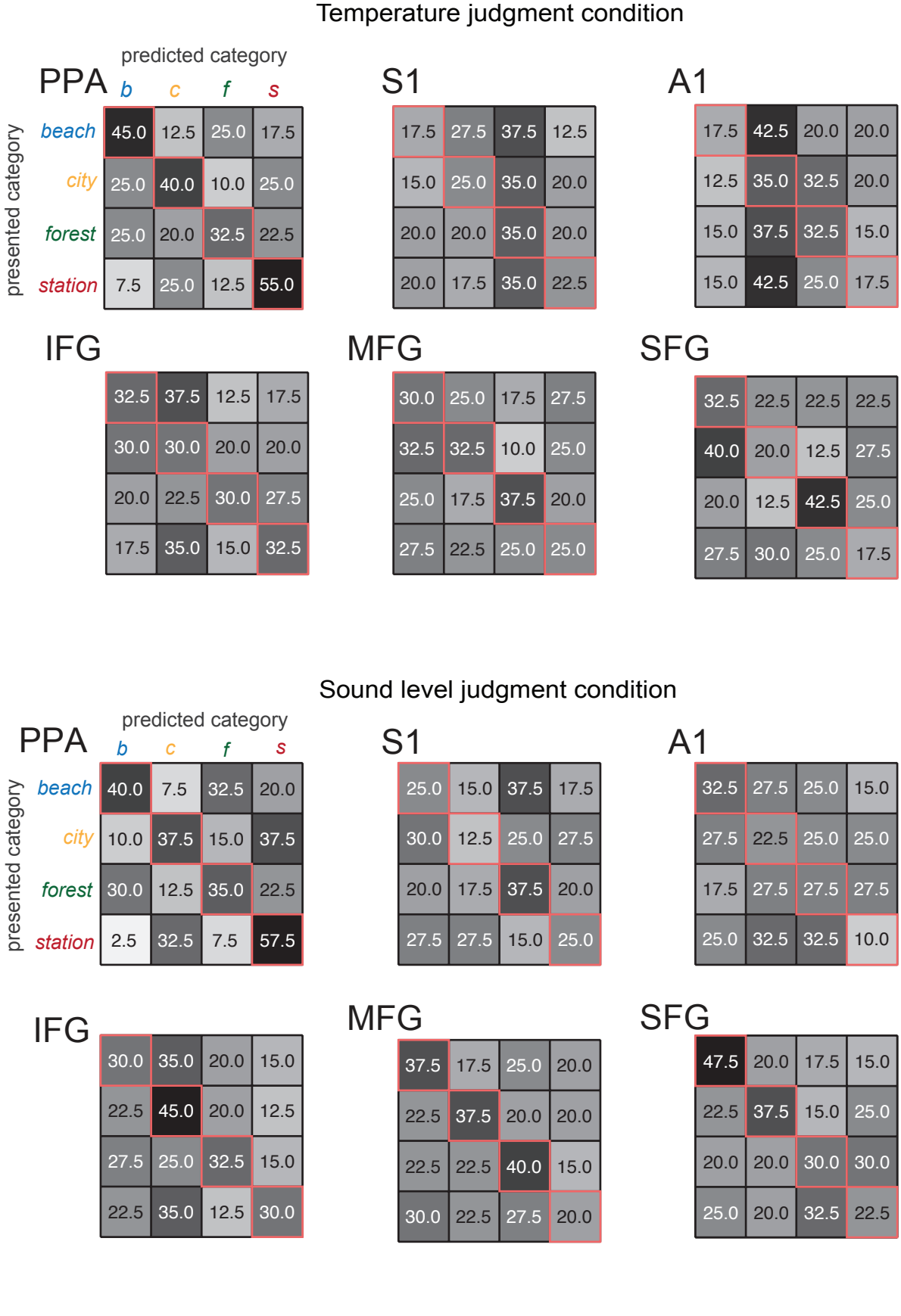Confusion matrices from category decoding