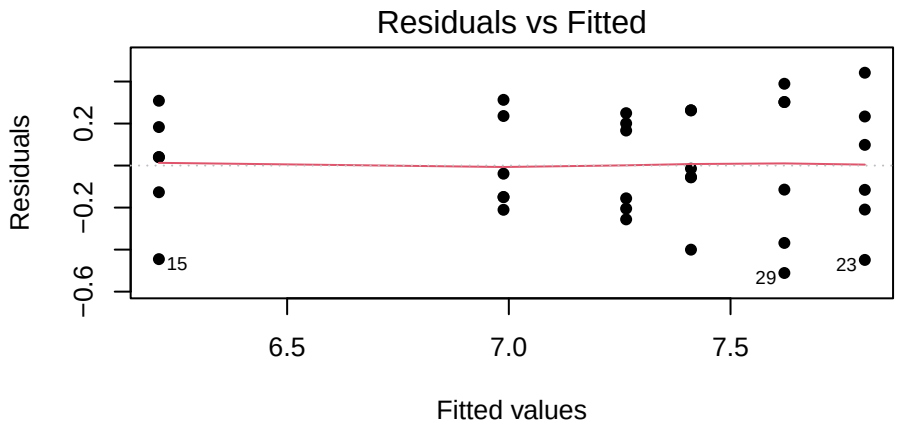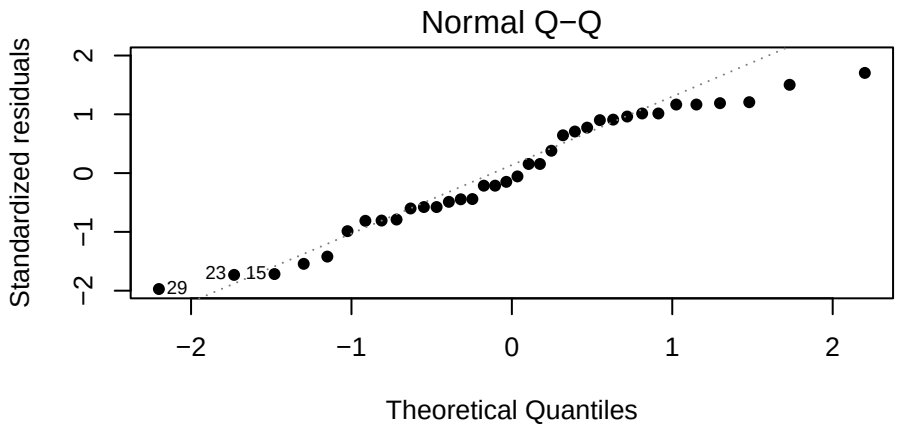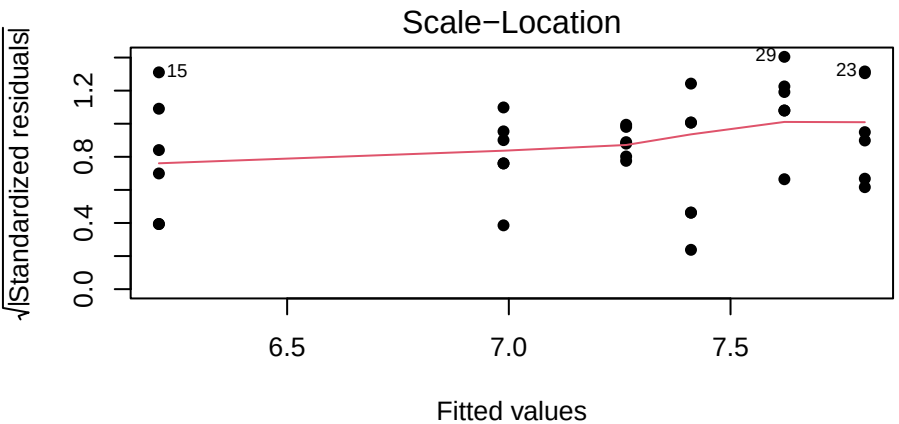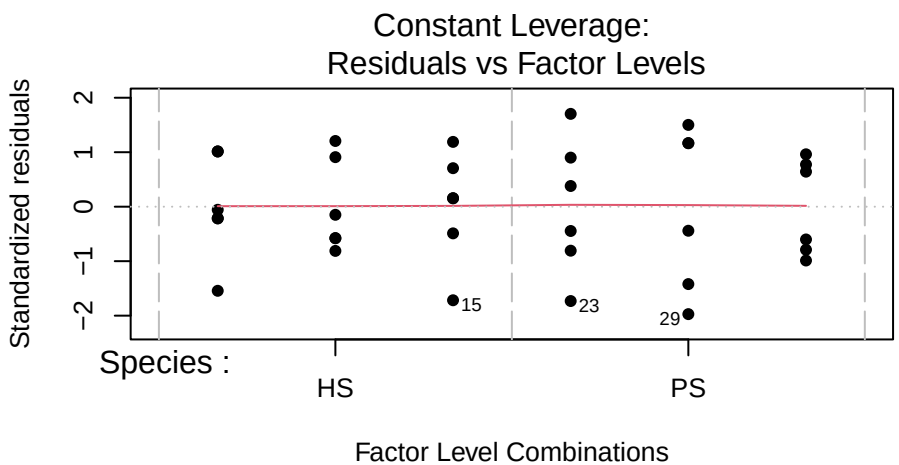log−Massperha 2−WAY model