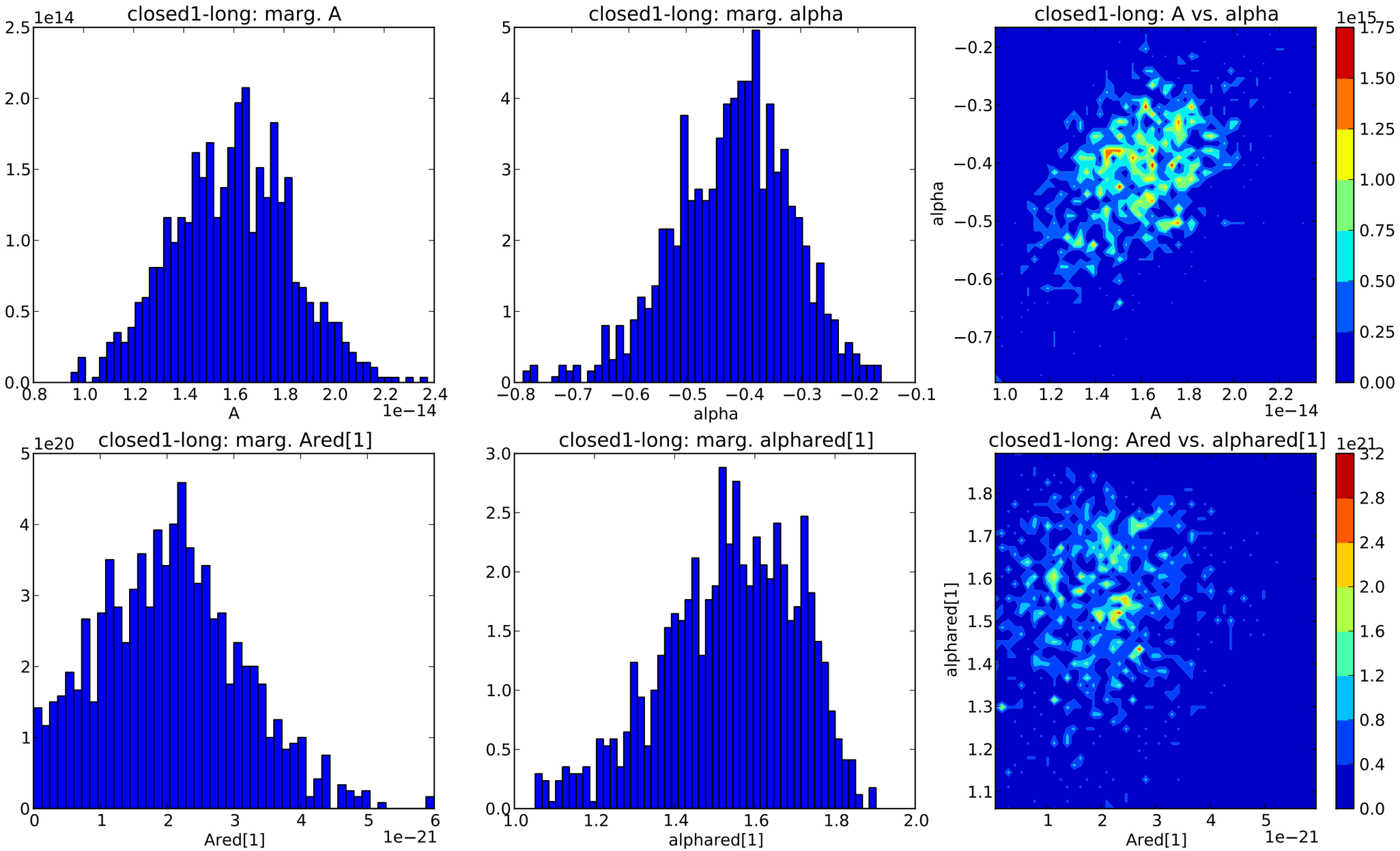challenge closed1-long, 74-parameter search