nophi X obs.
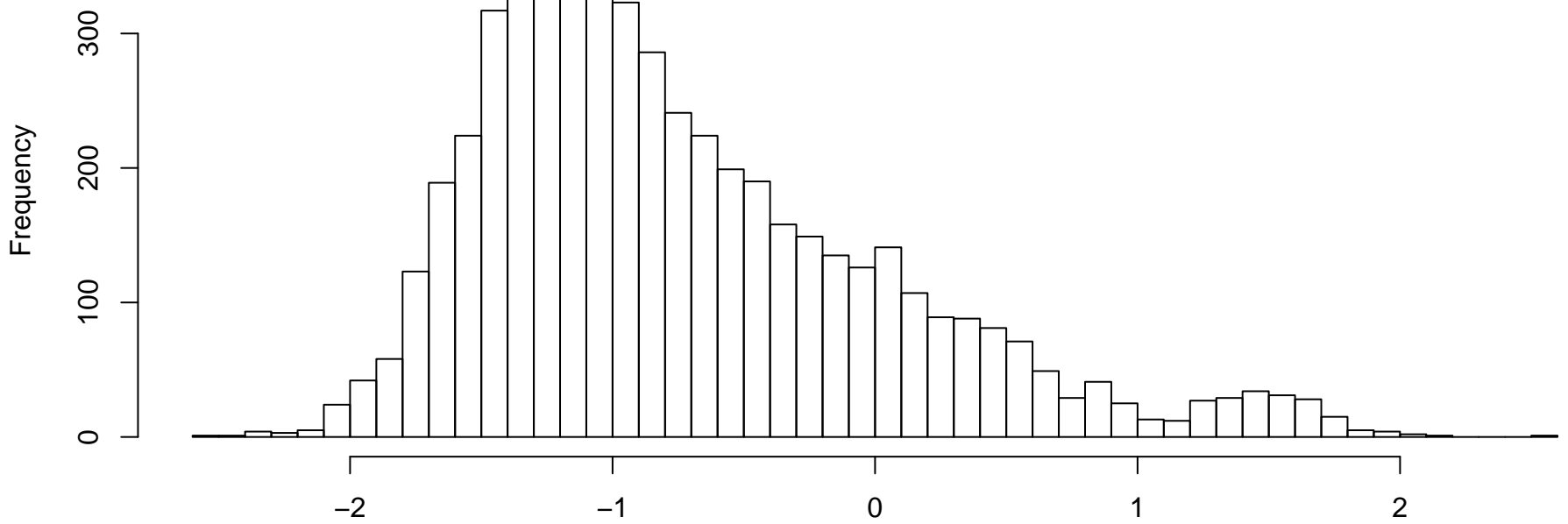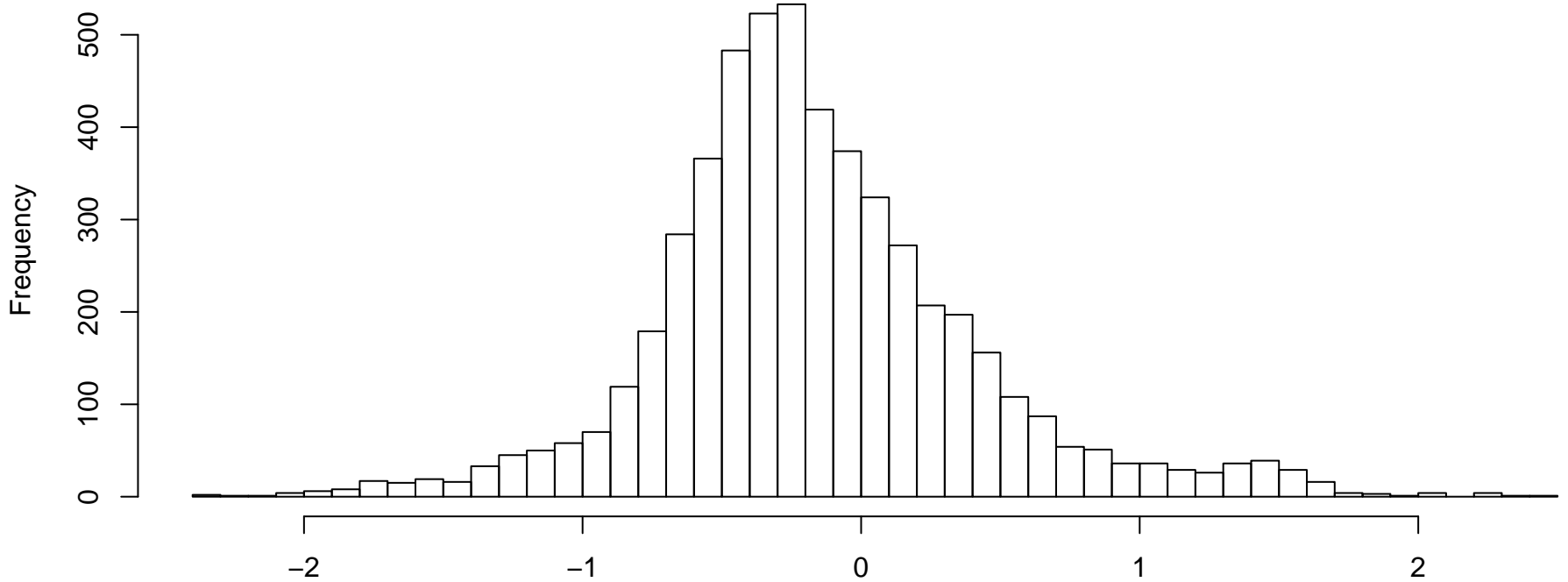
estim. phi (log10)
mean=−0.733

excluding unreliable X

emp. phi (log10)
mean=−0.163