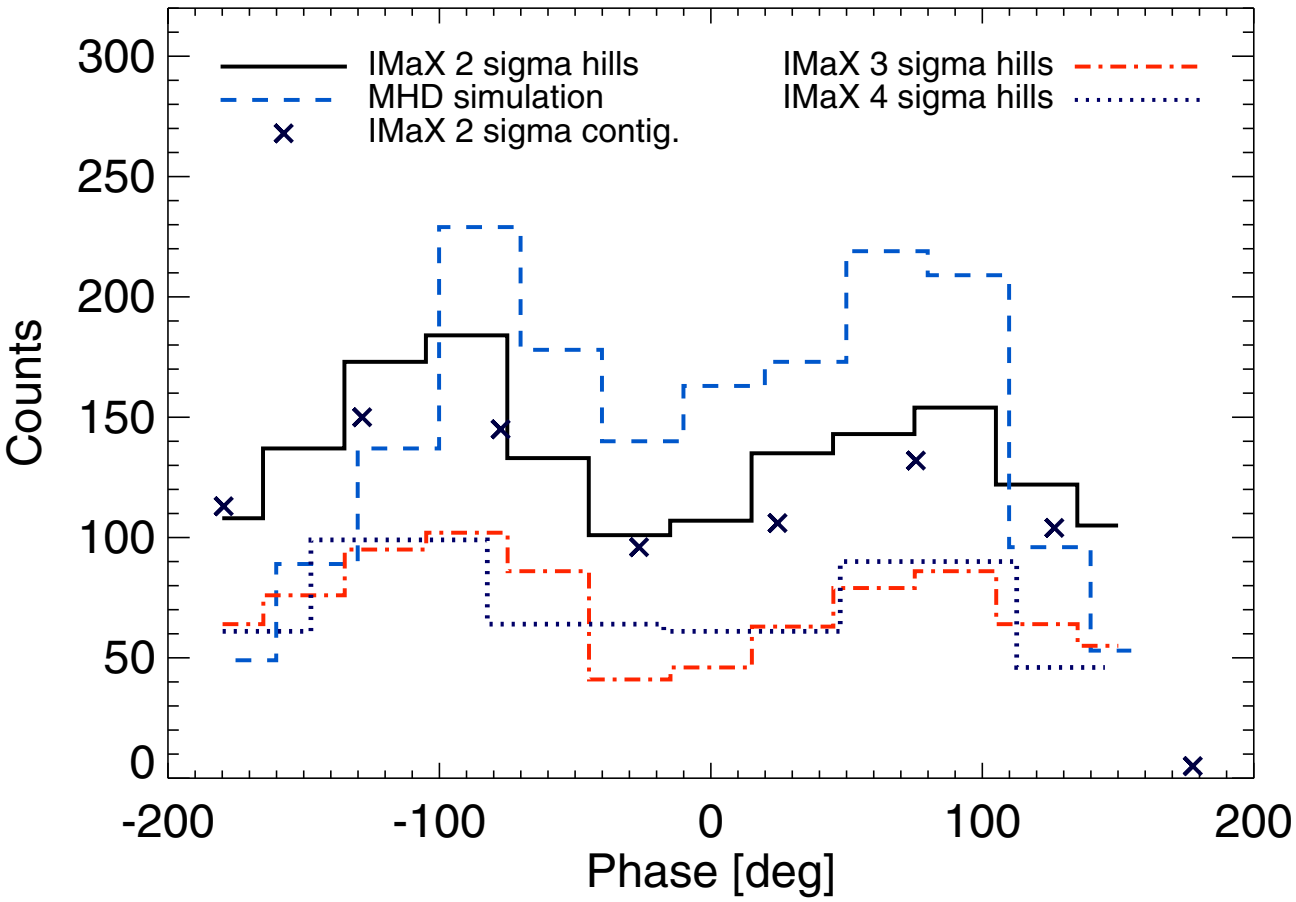
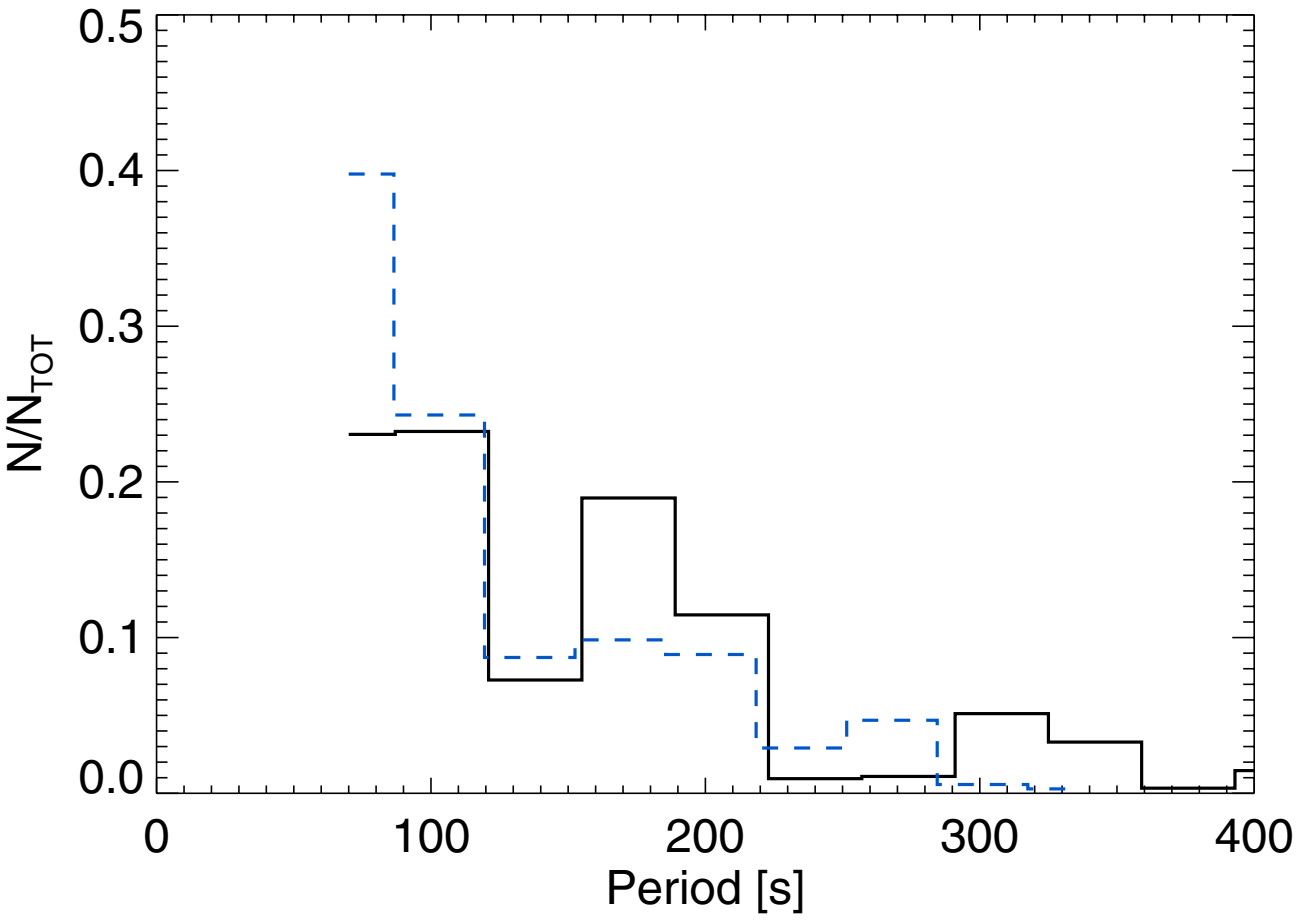


(a) $\phi(v_z - v_h)$



(b) Period distribution