**SBSM Empirical Hazard Curves**  $10^{-1}$  $10^{-2}$ Exceedance One Week Probability of  $10^{-4}$ 10<sup>-5</sup>  $10^{-6}$  $10^{-7}$  $10^{-8}$   $10^{-2}$  $1.0^{-1}$ 3 4 5 6 7 1 0  $456710^{1}$ 2 3 2 3 4 5 6 3s SA -ASK2014, TI - ASK2014, TD - ASK2014, ETAS - ASK2014+BS13 Directivity, ETAS

DATASET #1 (line: Solid, width=3.0; color: 0,0,255)

ASK2014, TI

DATASET #2 (line: Solid, width=3.0; color: 0,178,0)

ASK2014, TD

DATASET #3 (line: Dashed, width=1.5; color: 255,0,0)

ASK2014, ETAS

DATASET #4 (line: Solid, width=3.0; color: 255,0,0)

ASK2014+BS13 Directivity, ETAS