

Quality flag	Location	Depth	Magnitude ( $M_w$ , direct or proxy)
A	SGAP < 120 && eccentricity < 0.75 or GTCAND	depdp or GTCAND or NSTA10	GCMT
B	SGAP < 160	NSTAlocal > 2	Literature or Proxy based on well-constrained $M_S$
C	Other cases	Other cases	Literature or Proxy based on poorly constrained $M_S$ or Proxy based on $m_b$
D	Manually assigned	Manually assigned	No magnitude or Proxy uncertainty > 0.7 or $M_w$ proxy based on $M_S < 5$