

PRIMARY HAZARD			SECONDARY HAZARD (TRIGGERED OR INCREASED PROBABILITY)																																			
			(A)		(B)	(C)							(D)				(E)			(F)	(G)	(H)	(I)		(J)		(K)		(L)	(M)	(N)	(O)		(P)		(Q)	(R)	(S)
			EQ		TS	VO							LA				FL			DR	RS	GC	SS		GH		ST		TO	HA	LN	ET (H)		ET (C)		WF	GS	IM
			(Ai)	(Aii)	(Bi)	(Ci)	(Cii)	(Ciii)	(Civ)	(Cv)	(Cvi)	(Di)	(Dii)	(Diii)	(Div)	(Ei)	(Eii)	(Eiii)	(Fi)	(Gi)	(Hi)	(Ii)	(Iii)	(Ji)	(Jii)	(Ki)	(Kii)	(Li)	(Mi)	(Ni)	(Oi)	(Pi)	(Qi)	(Ri)	(Si)			
			Ground shaking and rupture	Liquefaction	Freshwater tsunami	Subterranean magma movement	Explosions (vertical/lateral)	Gas and aerosol emission	Ash and tephra ejection	Pyroclastic density currents	Lava flows	Rockfall	Rotational and translational landslide	Debris flow	Lahar	Pluvial flood	Fluvial flood	Lakeside flood	Drought	Tectonic subsidence	Piping collapse	Consolidation/settlement	Soil shrinkage	Volcanic inflation/uplift	Soil expansion (swelling)	Heavy rain	Tropical storm/hurricane	Tornado	Hailstorm	Lightning	Heatwave	Cold wave/frost	Wildfire	Geomagnetic storm	Impact event			
(1) EQ	(1i)	Ground shaking and rupture	■	▲	▲	▲	▲			▲		■	■	■						▲																		
	(1ii)	Liquefaction		■																		▲			▲													
	(2) TS	(2i)	Freshwater tsunami		▲													▲																				
		(3i)	Subterranean magma movement	■			▲																	▲														
	(3) VO	(3ii)	Explosions (vertical/lateral)	■		▲			▲	▲	▲	▲	▲	▲																								
		(3iii)	Gas and aerosol emission						▲	▲	▲	▲																						▲	▲			
		(3iv)	Ash and tephra ejection											▲			▲	▲												■			▲	▲				
		(3v)	Pyroclastic density currents										▲				▲	▲																▲	▲			
		(3vi)	Lava flows																				▲												▲	▲		
	(4) LA	(4i)	Rockfall																																			
		(4ii)	Rotational and translational landslide			▲		▲						▲	▲			▲	▲																			
		(4iii)	Debris flow			▲								▲				▲	▲																			
		(4iv)	Lahar															▲	▲																			
	(5) FL	(5i)	Pluvial flood		▲																	▲				▲												
		(5ii)	Fluvial flood		▲									▲												▲												
		(5iii)	Lakeside flood		▲									▲												▲												
	(6) DR	(6i)	Drought																																	▲		
	(7) RS	(7i)	Tectonic subsidence													▲	▲	▲																				
	(8) GC	(8i)	Piping collapse																																			
(9) SS	(9i)	Consolidation/settlement																																				
	(9ii)	Soil shrinkage																																				
(10) GH	(10i)	Volcanic inflation/uplift	▲									▲	▲																									
	(10ii)	Soil expansion (swelling)										▲	▲																									
(11) ST	(11i)	Sustained and heavy rain		▲			▲					■	■	■	■	■	■	■			▲		▲		▲													
	(11ii)	Tropical storm/hurricane		▲	▲		▲					■	■	■	■	■	■	■			▲		▲		▲			■		▲								
(12) TO	(12i)	Tornado																																				
(13) HA	(13i)	Hailstorm										▲	▲	▲																								
(14) LN	(14i)	Lightning																																		▲		
(15) ET (H)	(15i)	Heatwave																																		▲		
(16) ET (C)	(16i)	Cold wave/frost																																		▲		
(17) WF	(17i)	Wildfire											▲	▲																						▲		
(18) GS	(18i)	Geomagnetic storm																																			▲	
(19) IM	(19i)	Impact event	■		▲	▲	▲																												▲	▲		